

Edition 148 as of February 10, 2021

ETERNUS DX60/DX80/DX90/DX60 S2/DX80 S2/DX90 S2 Server Support matrix

Legend

Supported(): () shows the versions of ETERNUS DX60 S2/DX80 S2/DX90 S2 firmware that support each server model.

Planned 1: Support is scheduled by the indicated date. If the date is month, support is scheduled for the beginning of the month.
If the date is nQ, support is scheduled during that quarter.

Planned 2: Support is planned. Availability varies depending on the business requirements. Please contact the Storage System Division.

N.A.: Not Applicable.

Note: DX60/DX80/DX90 are end of support models, and no longer supported.

Contents

Solaris (FC connection) Edition 147 : 2018/1/24	Windows (FC connection) Edition 147 : 2018/1/24	Linux (FC connection) Edition 147 : 2018/1/24	VMware (FC connection) Edition 147 : 2018/1/24
SPARC Enterprise	Windows 2016	PRIMEQUEST	ESXi 6
Fujitsu M10	Windows 2012R2	PRIMERGY (RHEL7)	ESXi 5
Other Company's server (x86)	Windows 2012 (Fujitsu server)	PRIMERGY (RHEL6)	ESX 4
Solaris (iSCSI connection) Edition 147 : 2018/1/24	Windows 2012 (Other Companies' server)	PRIMERGY (RHEL5)	ESX 3
Solaris (SAS connection) Edition 147 : 2018/1/24	Windows 2008R2 (PRIMEQUEST)	PRIMERGY (RHEL4)	VMware (iSCSI connection) Edition 147 : 2018/1/24
Solaris (FC-FCoE(switch) connection) Edition 147 : 2018/1/24	Windows 2008R2 (PRIMERGY)	PRIMERGY (SuSE)	ESXi 6
Solaris (iSCSI-FCoE(switch) connection) Edition 107:2014/2/19	Windows 2008R2 (Other Companies' server)	Other Companies' server (RHEL7)	ESXi 5
Solaris (FCoE-FCoE(switch) connection) Edition 118 : 2014/12/05	Windows 2008(32) (PRIMEQUEST)	Other Companies' server (RHEL6)	ESX 4
HP-UX (FC connection) Edition 147 : 2018/1/24	Windows 2008(32) (PRIMERGY)	Other Companies' server (RHEL5)	ESX 3
HP-UX 11iv3 + VM4.1	Windows 2008(32) (Other Companies' server)	Other Companies' server (RHEL4)	VMware (SAS connection) Edition 147 : 2018/1/24
HP-UX 11iv3	WINDOWS 2008(64) (PRIMEQUEST)	Other Companies' server (SuSE)	VMware (FCoE-FCoE(switch) connection) Edition 143 : 2017/4/19
HP-UX 11iv2/11iv1	Windows 2008(64) (PRIMERGY)	Linux (iSCSI connection) Edition 147 : 2018/1/24	VMware (FC-FCoE(switch) connection) Edition 147 : 2018/1/24
HP-UX (iSCSI connection) Edition 147 : 2018/1/24	Windows 2008(64) (Other Companies' server)	PRIMEQUEST	XenServer (FC connection) Edition 147 : 2018/1/24
AIX (FC connection) Edition 147 : 2018/1/24	Windows 2003 (32)	PRIMERGY (RHEL7)	XenServer (iSCSI connection) Edition 147 : 2018/1/24
AIX 7.1	Windows 2003 (64)	PRIMERGY (RHEL6)	Oracle VM (FC connection) Edition 147 : 2018/1/24
AIX 6.1	Windows (iSCSI connection) Edition 147 : 2018/1/24	PRIMERGY (RHEL5)	Oracle VM (iSCSI connection) Edition 147 : 2018/1/24
AIX 5.3	Windows 2016	PRIMERGY (SuSE)	Egenera (FC connection) Edition 147 : 2018/1/24
AIX 5.2	Windows 2012R2	Other Companies' server (RHEL7)	FileStore (FC connection) Edition 147 : 2018/1/24
	Windows 2012	Other Companies' server (RHEL6)	FalconStor (FC connection) Edition 147 : 2018/1/24
	Windows 2008R2	Other Companies' server (RHEL5)	FalconStor (iSCSI connection) Edition 103 : 2013/12/6
	Windows 2008 (32/64)	Other Companies' server (SuSE)	SVC (FC connection) Edition 147 : 2018/1/24
	Windows 2003 (32/64)	Linux (SAS connection) Edition 147 : 2018/1/24	SVC (iSCSI connection) Edition 147 : 2018/1/24
	Windows (SAS connection) Edition 147 : 2018/1/24	PRIMERGY	UCS Edition 114 : 2014/7/23
	Windows 2012	Other Companies' server	Switch Edition 148 : 2021/2/10
	Windows 2008R2	Linux (FC-FCoE(switch) connection) Edition 147 : 2018/1/24	
	Windows 2008 (32/64)	Linux (FCoE-FCoE(switch) connection) Edition 135 : 2016/6/17	
	Windows 2003 (32/64)	Linux (iSCSI-FCoE(switch) connection) Edition 147 : 2018/1/24	
	Windows (FC-FCoE(switch) connection) Edition 147 : 2018/1/24	Oracle Linux(FC connection) Edition 147 : 2018/1/24	
	Windows (FCoE-FCoE(switch) connection) Edition 143 : 2017/4/19	Oracle Linux(iSCSI connection) Edition 147 : 2018/1/24	
		Asianux (FC connection) Edition 147 : 2018/1/24	
		Asianux (iSCSI connection) Edition 147 : 2018/1/24	

Notes

- The cluster configurations shown in the table are all 2-node cluster system.
- Solaris™ Operating System is described as Solaris OS.
- For each Operating System, HBA, Path Failover software, Cluster System software, please apply necessary patches which are suggested by the product suppliers.
- Fibre Channel SR-IOV feature can not be used with 4Gbps CA.
- GR MultipathDriver is described as "GRMPD", and ETERNUS MultipathDriver is described as "EMPD".
- GRMPD has been terminated.
- If multipath configuration is supported, then single path configuration is also supported. But multipath configuration may be mandatory because of cluster requirement.

Solaris System	OS	Connected Type	Bus	HBA	Driver Version	Switch	Path Failover	Cluster System	SAN boot	Model			Instruction for use
										DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
Fujitsu M10	Solaris 11 OS	Direct/ via switch	PCI-Express	SP1X7FAA2F/SP1X7FAB2F 7101673/7101674 (+7101679/7101680 7101675/7101676)	OS bundled	Refer to "Switch pages" for supported FC switches.	MPxIO	PCL 4.3A20	Yes	Supported (V20L11 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use Oracle Solaris 11.1 or later.
							EMPD 3.1.0 or later	PCL 4.3A20	Yes	Supported (V20L11 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	
		via switch	PCI-Express	SP1X7FBA2F 7101683/7101684 (+7101685/7101686)	OS bundled		MPxIO	PCL 4.3A20	Yes	Supported (V20L11 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	
							EMPD 3.1.0 or later	PCL 4.3A20	Yes	Supported (V20L11 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	
		Direct/ via switch	PCI-Express	SE0X7F21F/SE0X7F22F/ SG-PCIE1FC-QF8-Z/ SG-PCIE2FC-QF8-Z/ SG-XPCE1FC-QF8-N/ SG-XPCE2FC-QF8-N	OS bundled		MPxIO	OSC4.1/4.2/4.3	No	Supported (V20L11 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	- Please use Oracle Solaris 11.1 or later. - For OSC notes, please refer to OSC handbook.
							MPxIO	OSC4.1/4.2/4.3	No	Supported (V20L11 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	
		Direct/ via switch	PCI-Express	SE0X7F21F/SE0X7F22F/ SG-PCIE1FC-QF8-Z/ SG-PCIE2FC-QF8-Z/ SG-XPCE1FC-QF8-N/ SG-XPCE2FC-QF8-N	OS bundled		VxVM 6.0.3	VCS 6.0.3 (including Oracle RAC)	No	Supported (V20L11 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	- Please use Oracle Solaris 11.1 or later. - The maximum number of LUNs per server is up to 128 when using VxVM 6.0.3. When configuring cluster by Veritas environment, there is a limitation of number of paths from one storage. Please satisfy the formula below. - for ETERNUS DX80 S2/DX90 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 64000 - for DX60 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 32767 When one storage is used by multiple clusters, then # of path is the sum of all cluster's path.
							VxVM 6.0.3	VCS 6.0.3 (including Oracle RAC)	No	Supported (V20L11 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	
		Direct/ via switch	PCI-Express	SE0X7F21F/SE0X7F22F/ SG-PCIE1FC-QF8-Z/ SG-PCIE2FC-QF8-Z/ SG-XPCE1FC-QF8-N/ SG-XPCE2FC-QF8-N	OS bundled		MPxIO	PCL 4.3A20	Yes	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	Please use Oracle Solaris 11.1 or later.
							EMPD 3.1.0 or later	PCL 4.3A20	Yes	Supported (V20L11 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	
		Direct/ via switch	PCI-Express	SE0X7F31F/SE0X7F32F/ SG-PCIE1FC-EM8-Z/ SG-PCIE2FC-EM8-Z/ 7105391/ SG-XPCE2FC-EM8-N	OS bundled		MPxIO	PCL 4.3A20	Yes	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
							EMPD 3.1.0 or later	PCL 4.3A20	Yes	Supported (V20L11 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	
		Direct/ via switch	PCI-bus/ PCI-Express	SE0X7F21F/SE0X7F22F/ SG-PCIE1FC-QF8-Z/ SG-PCIE2FC-QF8-Z/ SG-XPCE1FC-QF8-N/ SG-XPCE2FC-QF8-N	OS bundled		MPxIO	OracleRAC	Yes	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	Please use Oracle Solaris 11.1 or later.
							Yes		Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)		

Solaris System	OS	Connected Type	Bus	HBA	Driver Version	Switch	Path Failover	Cluster System	SAN boot	Model			Instruction for use
										DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
Fujitsu M10	Solaris 10 OS	Direct/ via switch	PCI-Express	SP1X7FAA2F/SP1X7FAB2F 7101673/7101674 (+7101679/7101680 7101675/7101676)	OS bundled	Refer to "Switch pages" for supported FC switches.	MPxIO	PCL 4.3A20	Yes	Supported (V20L11 or later)	Supported (V10L52 or later)	Supported Note1 (V10L52 or later)	Please use Oracle Solaris 10 OS 1/13 or later. Note 1: When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.
							EMPD 3.1.0 or later	PCL 4.3A20	Yes	Supported (V20L11 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	
		via switch	PCI-Express	SP1X7FBA2F 7101683/7101684 (+7101685/7101686)	OS bundled		MPxIO	PCL 4.3A20	Yes	Supported (V20L11 or later)	Supported (V10L52 or later)	Supported Note1 (V10L52 or later)	
							EMPD 3.1.0 or later	PCL 4.3A20	Yes	Supported (V20L11 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	
		Direct/ via switch	PCI-Express	SE0X7F21F/SE0X7F22F/ SG-PCIE1FC-QF8-Z/ SG-PCIE2FC-QF8-Z/ SG-XPCIE1FC-QF8-N/ SG-XPCIE2FC-QF8-N	OS bundled		MPxIO	OSC3.3 3/13	No	Supported (V20L11 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use Oracle Solaris 10 OS 1/13 or later. For OSC notes, please refer to OSC handbook.
							MPxIO	OSC3.3 3/13	No	Supported (V20L11 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	
		Direct/ via switch	PCI-Express	SE0X7F21F/SE0X7F22F/ SG-PCIE1FC-QF8-Z/ SG-PCIE2FC-QF8-Z/ SG-XPCIE1FC-QF8-N/ SG-XPCIE2FC-QF8-N	OS bundled		MPxIO	PCL 4.3A20	Yes	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	Please use Oracle Solaris 10 OS 1/13 or later. When using VxVM6.0.3, the maximum number of LUNs per server is up to 128. When configuring cluster by Veritas environment, there is a limitation of number of paths from one storage. Please satisfy the formula below. - # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 64000 - for DX60 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 32767 When one storage is used by multiple clusters, then # of path is the sum of all cluster's path.
							EMPD 3.1.0 or later	PCL 4.3A20	Yes	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
		via switch	PCI-Express	SE0X7F21F/SE0X7F22F/ SG-PCIE1FC-QF8-Z/ SG-PCIE2FC-QF8-Z/ SG-XPCIE1FC-QF8-N/ SG-XPCIE2FC-QF8-N	OS bundled		MPxIO	OracleRAC	Yes	Supported (V20L10 or later)	Supported (V10L19 or later)	Supported (V10L40 or later)	
							VxVM 6.0.3 (including Oracle RAC)	No	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)		
		Direct/ via switch	PCI-Express	SE0X7F31F/SE0X7F32F/ SG-PCIE1FC-EM8-Z/ SG-PCIE2FC-EM8-Z/ 7105391/ SG-XPCIE2FC-EM8-N	OS bundled		MPxIO	PCL 4.3A20	Yes	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
					OS bundled		EMPD 3.1.0 or later	PCL 4.3A20	Yes	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
					OS bundled		MPxIO	OracleRAC	Yes	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
					OS bundled		VxVM 6.0.3 (including Oracle RAC)	No	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)		

Solaris System	OS	Connected Type	Bus	HBA	Driver Version	Switch	Path Failover	Cluster System	SAN boot	Model			Instruction for use
										DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
SPARC Servers SPARC Enterprise SUN Fire	Solaris 11 OS	Direct/ via switch	PCI-bus/ PCI-Express	7101673/7101674 7101681/7101682 (+7101679/7101680 7101675/7101676)	OS bundled	Refer to "Switch pages" for supported FC switches.	MPxIO	OracleRAC	Yes	Supported (V20L11 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use Oracle Solaris 11.1 or later.
				7101683/7101684 7101689/7101690 (+7101685/7101686)					Yes	Supported (V20L11 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	
		Direct/ via switch	PCI-bus/ PCI-Express	SG-XPICIE1FC-EM8/ SG-XPICIE2FC-EM8	OS bundled		VxVM 6.0.1 to 6.0.3	VCS 6.0.1 to 6.0.3 (including Oracle RAC) InfoScale Availability 7.0/7.1	No	Supported (V20L11 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	- Please use Oracle Solaris 11.1 or later. - The maximum number of LUNs per server is up to 128 when using VxVM 6.0.x. When configuring cluster by Veritas environment, there is a limitation of number of paths from one storage. Please satisfy the formula below. - for ETERNUS DX80 S2/DX90 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 64000 - for DX60 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 32767 When one storage is used by multiple clusters, then # of path is the sum of all cluster's path.
				SG-XPICIE1FC-QF8 SG-XPICIE2FC-QF8					No	Supported (V20L11 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	
		Direct/ via switch	PCI-Express	SE0X7F21F SE0X7F22F	OS bundled		MPxIO	PCL 4.3A10	Yes	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	Please use Solaris 11 11/11 or later.
				EMPD 3.1.0 or later			PCL 4.3A20	Yes	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)		
		Direct/ via switch	PCI-Express	SE0X7F31F/ SE0X7F32F	OS bundled		MPxIO	PCL 4.3A10	Yes	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
				EMPD 3.1.0 or later			PCL 4.3A20	Yes	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)		
		Direct/ via switch	PCI-Express	SE5X7F22G/ SE5X7F32G	OS bundled		MPxIO	PCL 4.3A10	Yes	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
				EMPD 3.1.0 or later			PCL 4.3A20	Yes	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)		
		Direct/ via switch	PCI-bus/ PCI-Express	SG-XPICIE1FC-EM8/ SG-XPICIE2FC-EM8	OS bundled		MPxIO	OracleRAC	No	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	Please use Solaris 11 11/11 or later.
				SG-XPICIE1FC-QF8 SG-XPICIE2FC-QF8			No		Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)		
		Direct/ via switch	PCI-bus/ PCI-Express	SG-XPICIEFCGBE-E8-N	OS bundled		MPxIO	OSC4.1/4.2/4.3	Yes	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	Please use Oracle Solaris 11.1
				SG-XPICIE1FC-EM8/ SG-XPICIE2FC-EM8					Yes	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
				SG-XPICIEFCGBE-Q8-N					Yes	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
				SG-XPICIE1FC-QF8 SG-XPICIE2FC-QF8					Yes	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
		Direct/ via switch	PCI-bus/ PCI-Express	SG-XPICIEFCGBE-E8-N	OS bundled		MPxIO	OSC4.0	Yes	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	Please use Oracle Solaris 11 11/11
				SG-XPICIE1FC-EM8/ SG-XPICIE2FC-EM8					Yes	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
				SG-XPICIEFCGBE-Q8-N					Yes	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
				SG-XPICIE1FC-QF8 SG-XPICIE2FC-QF8					Yes	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
	Solaris 10 OS	Direct/ via switch	PCI-bus/ PCI-Express	7101673/7101674 7101681/7101682 (+7101679/7101680 7101675/7101676)	OS bundled	Refer to "Switch pages" for supported FC switches.	MPxIO	OracleRAC	Yes	Supported (V20L11 or later)	Supported (V10L52 or later)	Supported Note1 (V10L52 or later)	Please use Oracle Solaris 10 OS 1/13 or later. Note 1: When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.
				7101683/7101684 7101689/7101690 (+7101685/7101686)					Yes	Supported(V20L11 or later)	Supported (V10L52 or later)	Supported Note1 (V10L52 or later)	
		Direct/ via switch	PCI-bus/ PCI-Express	SG-XPICIEFCGBE-E8-N	OS bundled		MPxIO	OSC3.3 3/13	Yes	Supported(V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	Please use OSC3.3 3/13 and Oracle Solaris 10 1/13
				SG-XPICIE1FC-EM8/ SG-XPICIE2FC-EM8					Yes	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
				SG-XPICIEFCGBE-Q8-N					Yes	Supported(V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
				SG-XPICIE1FC-QF8 SG-XPICIE2FC-QF8					Yes	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
		Direct/ via switch	PCI	SG-XPIC1FC-EM4-Z SG-XPIC2FC-EM4-Z	OS bundled		MPxIO	OSC3.3 FCS OSC3.3 5/11	No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)	
				SG-XPIC1FC-QF4/ SG-XPIC2FC-QF4, XSPPFC401QU/XSPPFC402QU, XAPFC401QU/XAPFC402QU	OS bundled				No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)	
				SG-XPICIE1FC-EM8/ SG-XPICIE2FC-EM8	OS bundled				No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)	
			PCI-Express	SG-XPICIE1FC-QF8 SG-XPICIE2FC-QF8	OS bundled				No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)	

Solaris System	OS	Connected Type	Bus	HBA	Driver Version	Switch	Path Failover	Cluster System	SAN boot	Model			Instruction for use
										DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
SPARC Servers SPARC Enterprise SUN Fire	Solaris 10 OS	Direct/ via switch	PCI	SG-XPci1FC-EM2/ SG-XPci2FC-EM2	OS bundled	Refer to "Switch pages" for supported FC switches.	MPxIO	SunCluster 3.2	Yes	Supported (V20L10 or later)	Planned 2	-	
				SG-XPci1FC-QF2/ SG-XPci1FC-QL2	OS bundled				Yes	Supported (V20L10 or later)	Planned 2	-	
				SG-XPci1FC-EM4-Z SG-XPci2FC-EM4-Z	OS bundled				Yes	Supported (V20L10 or later)	Planned 2	Planned 2	
				SG-XPciE1FC-EM4 SG-XPciE2FC-EM4	OS bundled				Yes	Supported (V20L10 or later)	Planned 2	Planned 2	
				SG-XPci1FC-QF4/ SG-XPci2FC-QF4 XSPFC401QU/XSPFC402QU, XAPFC401QU/XAPFC402QU	OS bundled				Yes	Supported (V20L10 or later)	Planned 2	Planned 2	
			PCI-Express	SG-XPciE1FC-EM8/ SG-XPciE2FC-EM8	OS bundled				Yes	Supported (V20L10 or later)	Planned 2	Planned 2	
				SG-XPciE1FC-QF8 SG-XPciE2FC-QF8	OS bundled				Yes	Supported (V20L10 or later)	Supported (V10L19 or later)	Supported (V10L40 or later)	
		via switch	PCI-Express	Brocade 1860	V3.1.0.0	Refer to "Switch pages" for supported FC switches.	MPxIO	-	No	Planned 2	Planned 2	Supported (V10L40 or later)	Please apply the following patch. Solaris 10 Update8 RSPC 1.9.28 or later.
				Brocade 815/825	V2.2.1			-	No	Supported (V20L10 or later)	N.A.	N.A.	
					V2.3.00			-	Yes	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)	
				Brocade 415/425	V2.2.1			-	No	Supported (V20L10 or later)	N.A.	N.A.	
					V2.3.00			-	Yes	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)	
		Direct/ via switch	PCI-bus/ PCI-Express	SG-XPci1FC-EM2/ SG-XPci2FC-EM2	OS bundled	Refer to "Switch pages" for supported FC switches.	MPxIO	OracleRAC	Yes	Supported (V20L10 or later)	Planned 2	N.A.	
				SG-XPci1FC-EM4-Z SG-XPci2FC-EM4-Z	OS bundled				Yes	Supported (V20L10 or later)	Planned 2	Planned 2	
				SG-XPci1FC-QF2/ SG-XPci1FC-QL2	OS bundled				Yes	Supported (V20L10 or later)	Planned 2	N.A.	
				SG-XPci1FC-QF4 SG-XPci2FC-QF4	OS bundled				Yes	Supported (V20L10 or later)	Planned 2	Planned 2	
				SG-XPciE1FC-QF4 SG-XPciE2FC-QF4	OS bundled				Yes	Supported (V20L10 or later)	Planned 2	Planned 2	
				SG-XPciE1FC-EM8-Z SG-XPciE2FC-EM8-Z	OS bundled				Yes	Supported (V20L10 or later)	Supported (V10L45 or later)	Supported (V10L45 or later)	
				SG-XPciE1FC-QF8-Z SG-XPciE2FC-QF8-Z	OS bundled				Yes	Supported (V20L10 or later)	Supported (V10L19 or later)	Supported (V10L40 or later)	
		Direct/ via switch	PCI-Express	SG-XPciE1FC-EM8 SG-XPciE2FC-EM8	OS bundled	Refer to "Switch pages" for supported FC switches.	VxVM 6.0 to 6.0.3	VCS 6.0 to 6.0.3 (including Oracle RAC) InfoScale Availability 7.0/7.1	No	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	Please use Oracle Solaris 10 OS 1/13 or later. When using VxVM6.0.3, the maximum number of LUNs per server is up to 128. When configuring cluster by Veritas environment, there is a limitation of number of paths from one storage. Please satisfy the formula below. - for ETERNUS DX80 S2/DX90 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 64000 - for DX60 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 32767 When one storage is used by multiple clusters, then # of path is the sum of all cluster's path.
				SG-XPciE1FC-QF8 SG-XPciE2FC-QF8					No	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
		Direct/ via switch	PCI-bus/ PCI-Express	SG-XPciE1FC-EM4 SG-XPciE2FC-EM4	OS bundled	Refer to "Switch pages" for supported FC switches.	VxVM 5.1	VCS 5.1 (including Oracle RAC) Note 1	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	When using VxVM 5.1, the maximum number of LUNs is 128 per server. For VxVM 5.1, download of driver for ETERNUS (Array Support Library) is not necessary. When configuring cluster by Veritas environment, there is a limitation of number of paths from one storage. Please satisfy the formula below. - for ETERNUS DX80 S2/DX90 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 64000 - for DX60 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 32767 When one storage is used by multiple clusters, then # of path is the sum of all cluster's path.
									No	-	Supported (V10L11 or later)	Supported (V10L40 or later)	
				SG-XPci1FC-EM4-Z SG-XPci2FC-EM4-Z	OS bundled				Yes	Supported (V20L10 or later)	Planned 2	Planned 2	
									No	-	Supported (V10L11 or later)	Supported (V10L40 or later)	
				SG-XPci1FC-QF4 SG-XPci2FC-QF4	OS bundled				Yes	Supported (V20L10 or later)	Planned 2	Planned 2	
				SG-XPciE1FC-QF4 SG-XPciE2FC-QF4	OS bundled				Yes	Supported (V20L10 or later)	Planned 2		
									No	-	Supported (V10L11 or later)	Supported (V10L40 or later)	
				SG-XPciE1FC-EM8 SG-XPciE2FC-EM8	OS bundled				Yes	Supported (V20L10 or later)	Planned 2	Planned 2	
									No	-	Supported (V10L11 or later)	Supported (V10L40 or later)	
				SG-XPciE1FC-QF8 SG-XPciE2FC-QF8	OS bundled				Yes	Supported (V20L10 or later)	Planned 2	Planned 2	
									No	-	Supported (V10L11 or later)	Supported (V10L40 or later)	
									No	-	Supported (V10L11 or later)	Supported (V10L40 or later)	

Solaris System	OS	Connected Type	Bus	HBA	Driver Version	Switch	Path Failover	Cluster System	SAN boot	Model			Instruction for use
										DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
SPARC Servers SPARC Enterprise SUN Fire	Solaris 10 OS	Direct/ via switch	PCI-bus/ PCI-Express	LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	6.30g	Refer to "Switch pages" for supported FC switches.	VxVM 5.1	VCS 5.1 (including Oracle RAC) Note 1	Yes	Supported (V20L10 or later)	Planned 2	N.A.	When using VxVM 5.1, the maximum number of LUNs is 128 per server. For VxVM 5.1, download of driver for ETERNUS (Array Support Library) is not necessary. When configuring cluster by Veritas environment, there is a limitation of number of paths from one storage. Please satisfy the formula below. - for ETERNUS DX80 S2/DX90 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 64000 - for DX60 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 32767 When one storage is used by multiple clusters, then # of path is the sum of all cluster's path.
			PCI-bus/ PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/LPe1150	6.30g				No	-	Supported (V10L11 or later)	N.A.	
			PCI-bus/ PCI-Express	LPe12000/LPe12002/LPe1250	6.30g				No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			PCI-bus/ PCI-Express	QLA2340/QLA2342/ QLA2460/QLA2462/ QLE2460/QLE2462/ QLE2464	5.05				No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			PCI-Express	QLE2560/QLE2562	V5.05				Yes	Supported (V20L10 or later)	Planned 2	Planned 2	
			PCI-Express	QLE2560/QLE2562	V5.05				No	-	Supported (V10L11 or later)	Supported (V10L40 or later)	
		Direct/ via switch	PCI-bus	LP10000/LP10000DC	6.30g	Refer to "Switch pages" for supported FC switches.	VxVM 5.0	Veritas VCS 5.0 (including Oracle RAC)	Yes	Supported (V20L10 or later)	Planned 2	N.A.	The maximum number of LUNs is up to 128 per server when using VxVM 5.0. When configuring cluster by Veritas environment, there is a limitation of number of paths from one storage. Please satisfy the formula below. - for ETERNUS DX80 S2/DX90 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 64000 - for DX60 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 32767 When one storage is used by multiple clusters, then # of path is the sum of all cluster's path. Please consult with Fujitsu when using SAN boot with QLogic QLA2340/QLA2342/QLA2460/QLA2462 card.
			PCI-bus	LP11000	6.30g				Yes	Supported (V20L10 or later)	Planned 2	Planned 2	
			PCI-Express	LPe12000/12002	6.30g				No	Supported (V20L10 or later)	Planned 2	Planned 2	
			PCI-bus	QLA2340/QLA2342/ QLA2460/QLA2462	5.04				Yes (see notes)	Supported (V20L10 or later)	Planned 2	Planned 2	
			PCI-Express	QLE2560/QLE2562	5.04				No	Supported (V20L10 or later)	Planned 2	Planned 2	
		Direct/ via switch	PCI	SG-XPCI1FC-EM2/ SG-XPCI2FC-EM2	OS bundled				Yes	Supported (V20L10 or later)	Supported (V10L25 or later)	-	
				SG-XPCI1FC-QF2/ SG-XPCI1FC-QL2	OS bundled				Yes	Supported (V20L10 or later)	Supported (V10L25 or later)	-	
				SG-XPCI1FC-EM4-Z SG-XPCI2FC-EM4-Z	OS bundled				Yes	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	
				SG-XPCI1FC-QF4/ SG-XPCI2FC-QF4, XSPFC401QU/XSPFC402QU, XAPFC401QU/XAPFC402QU	OS bundled				Yes	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	
			PCI-Express	SG-XPCIE1FC-EM8/ SG-XPCIE2FC-EM8	OS bundled				Yes	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	
				SG-XPCIE1FC-QF8 SG-XPCIE2FC-QF8	OS bundled				Yes	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	
		Direct/ via switch	PCI- Express	SE0X7F11X/ SE0X7F12X	V4.0	Refer to "Switch pages" for supported FC switches.	EMPDP	PCL 4.2A00	Yes	Supported (V20L10 or later)	Supported (V10L19 or later)	Supported (V10L40 or later)	When using PCL 4.3A10, please use Solaris 10 OS 8/11 or later. - For DX60 S2, when using EMPDP 3.0.2 or prior, please apply patch 914267-13 or later.
					V4.0update2 or later				Yes	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
					V4.0update2 or later				Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
					V4.0				Yes	Supported (V20L10 or later)	Planned 2	Planned 2	
					V4.0		VxVM5.0	Veritas VCS 5.0 (including Oracle RAC) Note 1	Yes	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	The maximum number of LUNs per server is up to 128 when using VxVM 5.0. When configuring cluster by Veritas environment, there is a limitation of number of paths from one storage. Please satisfy the formula below. - for ETERNUS DX80 S2/DX90 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 64000 - for DX60 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 32767 When one storage is used by multiple clusters, then # of path is the sum of all cluster's path.
					V4.0		VxVM5.1	VCS 5.1 (including Oracle RAC) Note 1	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	
					V4.0update2 or later				No	-	Supported (V10L11 or later)	Supported (V10L40 or later)	
					V4.0update2 or later				Yes	Supported (V20L10 or later)	Planned 2	Planned 2	

Solaris System	OS	Connected Type	Bus	HBA	Driver Version	Switch	Path Failover	Cluster System	SAN boot	Model			Instruction for use
										DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
SPARC Servers SPARC Enterprise SUN Fire	Solaris 10 OS	Direct/ via switch	PCI-Express	SG-XPICIE1FC-EM4/ SG-XPICIE2FC-EM4, XSEFC401AU/XSEFC402AU, XAEFC401AU/XAEFC402AU	OS bundled	Refer to "Switch pages" for supported FC switches.	MPxIO	SUN Cluster 3.2	No	Supported (V20L10 or later)	Planned 2	Planned 2	When using VxVM 5.1, the maximum number of LUNs is 128 per server. For VxVM 5.1, download of driver for ETERNUS (Array Support Library) is not necessary. When configuring cluster by Veritas environment, there is a limitation of number of paths from one storage. Please satisfy the formula below. - for ETERNUS DX80 S2/DX90 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 64000 - for DX60 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 32767 When multiple clusters are configured on one storage, then maximum number of paths are sum of each cluster.
					OS bundled		MPxIO	OracleRAC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	
					OS bundled		VxVM5.1	VCS 5.1 (including Oracle RAC) Note 1	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	
		No	-	Supported (V10L11 or later)		Supported (V10L40 or later)							
		Direct/ via switch	PCI-Express	SE0X7F21X SE0X7F22X	OS bundled	Refer to "Switch pages" for supported FC switches.	MPxIO	SUN Cluster 3.2	Yes	Supported (V20L10 or later)	Supported (V10L19 or later)	Supported (V10L40 or later)	Please use Solaris 10 OS 8/11 or later.
							MPxIO	PCL 4.3A10	Yes	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
							MPxIO	PCL 4.2A00	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
							MPxIO	OracleRAC	Yes	Supported (V20L10 or later)	Supported (V10L19 or later)	Supported (V10L40 or later)	
							VxVM5.0	Veritas VCS 5.0 (including Oracle RAC) Note 1	Yes	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Solaris 10 OS 10/08 PTF R09051 VERITAS Storage Foundation Standard 5.0 MP1 The maximum number of LUNs is up to 128 per server when using VxVM 5.0. When configuring cluster by Veritas environment, there is a limitation of number of paths from one storage. Please satisfy the formula below. - for ETERNUS DX80 S2/DX90 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 64000 - for DX60 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 32767 When one storage is used by multiple clusters, then # of path is the sum of all cluster's path.
							VxVM5.1	VCS 5.1 (including Oracle RAC) Note 1	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	When using VxVM 5.1, the maximum number of LUNs is 128 per server. For VxVM 5.1, download of driver for ETERNUS (Array Support Library) is not necessary. When configuring cluster by Veritas environment, there is a limitation of number of paths from one storage. Please satisfy the formula below. - for ETERNUS DX80 S2/DX90 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 64000 - for DX60 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 32767 When one storage is used by multiple clusters, then # of path is the sum of all cluster's path.
									No	-	Supported (V10L11 or later)	Supported (V10L40 or later)	
							VxVM 6.0 to 6.0.3	VCS 6.0 to 6.0.3 (including Oracle RAC)	No	Supported (V20L11 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	When using VxVM 6.0, the maximum number of LUNs is 128 per server. When configuring cluster by Veritas environment, there is a limitation of number of paths from one storage. Please satisfy the formula below. - for ETERNUS DX80 S2/DX90 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 64000 - for DX60 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 32767 When one storage is used by multiple clusters, then # of path is the sum of all cluster's path.
							Direct/ via switch	PCI-Express	SE0X7F31F/SE0X7F32F	OS bundled	Refer to "Switch pages" for supported FC switches.	MPxIO	PCL 4.3A20 PCL 4.3A10
		MPxIO	PCL 4.2A00	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)						Supported (V10L40 or later)	Please use Solaris 10 8/07 or later, patch 141876-06 or later should be applied.
		MPxIO	OracleRAC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)						Supported (V10L40 or later)	When using VxVM 6.0, the maximum number of LUNs is 128 per server. When configuring cluster by Veritas environment, there is a limitation of number of paths from one storage. Please satisfy the formula below. - for ETERNUS DX80 S2/DX90 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 64000 - for DX60 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 32767 When one storage is used by multiple clusters, then # of path is the sum of all cluster's path.
		VxVM 6.0 to 6.0.3	VCS 6.0 to 6.0.3 (including Oracle RAC)	No	Supported (V20L11 or later)	Supported (V10L31 or later)						Supported (V10L40 or later)	
		VxVM 5.1	VCS 5.1 (including Oracle RAC)	No	Planned 2	Supported (V10L11 or later)						Supported (V10L40 or later)	
		Direct/ via switch	PCI-Express	SE5X7F22G/ SE5X7F32G	OS bundled	Refer to "Switch pages" for supported FC switches.	MPxIO	PCL 4.3A10	Yes	Supported (V20L11 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	Please use Solaris 10 OS 8/11 or later.

Solaris System	OS	Connected Type	Bus	HBA	Driver Version	Switch	Path Failover	Cluster System	SAN boot	Model			Instruction for use
										DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMEPOWER	Solaris 8/9/10 OS	Direct/ via switch	PCI-bus	PW008FC2U	V2.2.1/V3.0/ V4.0update2	Refer to "Switch pages" for supported FC switches.	GRMPD(except on Solaris10) / EMPd up to 2.0.3 / EMPd 3.0.1 or later (except Solaris 8)	PRIMECLUSTER	Yes *1	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	For DX80 S2/DX90 S2, when using EMPD 3.0.2 or prior for Solaris 10 OS or Solaris 9 OS, please apply patch 914267-13 or later. For DX80 S2/DX90 S2, when using EMPD for Solaris 9 OS or Solaris 8 OS, please apply patch 912651-23 or later. For DX80 S2/DX90 S2, when using GRMPD 1.0.1 through GRMPD 1.0.6, please apply patch 912651-23 or later. *1: For SAN boot from DX80 S2/DX90 S2 with EMPD on Solaris 9 and Solaris 10, please apply patch 914267-15 or later.
				Yes *1	Supported (V20L10 or later)				Supported (V10L11 or later)	N.A.			
				Yes *1	Supported (V20L10 or later)				Planned 2	N.A.			
		Direct/ via switch		PW028FC4U/PW028FC5U, LP10000/LP10000DC	6.11.cx3		VxVM5.0	Veritas VCS 5.0 (including Oracle RAC)	No	Supported (V20L10 or later)	Planned 2	N.A.	The maximum number of LUNs is up to 128 per server when using VxVM 5.0. When configuring cluster by Veritas environment, there is a limitation of number of paths from one storage. Please satisfy the formula below. - for ETERNUS DX80 S2/DX90 S2 - # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 64000 - for DX60 S2 - # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 32767 When one storage is used by multiple clusters, then # of path is the sum of all cluster's path.
				PW008FC3U	V2.2.1/V3.0				No	Supported (V20L10 or later)	Planned 2	N.A.	
		Solaris 10 OS		Direct/ via switch	PCI-bus		PW008FC2/PW008FC3	V3.0 update1	EMPd	OracleRAC	Yes	Supported (V20L10 or later)	Planned 2
	Solaris 9 OS	Direct/ via switch	PCI-bus	PW008FC2U	V3.0 update1		VxVM5.1	VCS 5.1 (including Oracle RAC)	Yes	Supported (V20L10 or later)	Planned 2	N.A.	When using VxVM 5.1, the maximum number of LUNs is 128 per server. For VxVM 5.1, download of driver for ETERNUS (Array Support Library) is not necessary. When configuring cluster by Veritas environment, there is a limitation of number of paths from one storage. Please satisfy the formula below. - for ETERNUS DX80 S2/DX90 S2 - # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 64000 - for DX60 S2 - # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 32767 When one storage is used by multiple clusters, then # of path is the sum of all cluster's path.
		Direct/ via switch	PCI-bus	PW008FC3	V3.0 update1				No	-	Supported (V10L11 or later)	N.A.	
									Yes	Supported (V20L10 or later)	Planned 2	N.A.	
		Direct/ via switch	PCI-bus	LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	6.30g				Yes	Supported (V20L10 or later)	Planned 2	N.A.	
	Solaris 10 OS	Direct/ via switch	PCI-bus	PW008FC2U	V3.0 update1		VxVM5.1	VCS 5.1 (including Oracle RAC)	Yes	Supported (V20L10 or later)	Planned 2	N.A.	When using VxVM 5.1, the maximum number of LUNs is 128 per server. For VxVM 5.1, download of driver for ETERNUS (Array Support Library) is not necessary. When configuring cluster by Veritas environment, there is a limitation of number of paths from one storage. Please satisfy the formula below. - for ETERNUS DX80 S2/DX90 S2 - # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 64000 - for DX60 S2 - # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 32767 When one storage is used by multiple clusters, then # of path is the sum of all cluster's path.
					V4.0update2				No	Planned 2	Supported (V10L11 or later)	N.A.	
		Direct/ via switch	PCI-bus	PW008FC3	V3.0 update1				Yes	Supported (V20L10 or later)	Planned 2	N.A.	
					V4.0update2				No	Planned 2	Supported (V10L11 or later)	N.A.	

Solaris System	OS	Connected Type	Bus	HBA	Driver Version	Switch	Path Failover	Cluster System	SAN boot	Model			Instruction for use	
										DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA		
SUN Fire	Solaris 9 OS	Direct/ via switch	PCI-bus/ PCI-Express	SG-XPci1FC-QF4/ SG-XPci2FC-QF4	OS bundled	Refer to "Switch pages" for supported FC switches.	MPxIO	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Please apply the following; for Solaris9: RSPC 1.9.3 Please apply the latest "Recommended Patch Cluster". SunCluster is only supported on Solaris 9/05 for Solaris 9 OS.	
				SG-XPci1FC-EM4/ SG-XPci2FC-EM4	OS bundled				No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)		
		Direct/ via switch		SG-XPci1FC-QF2/ SG-XPci2FC-QF2	SFS4.4.15		MPxIO	Sun Cluster 3.2	Yes	Supported (V20L10 or later)	Planned 2	N.A.		
									SG-XPci1FC-EM2/ SG-XPci2FC-EM2	Yes	Supported (V20L10 or later)	Planned 2		N.A.
		Direct/ via switch	SG-XPci1FC-QF4/ SG-XPci2FC-QF4	SFS 4.4.15	Yes				Supported (V20L10 or later)	Planned 2	Planned 2			
					SG-XPci1FC-EM4/ SG-XPci2FC-EM4				Yes	Supported (V20L10 or later)	Planned 2	Planned 2		
		Direct/ via switch	PCI-bus	LP10000/LP10000DC	6.30g		VxVM 5.0	Veritas VCS 5.0 (including Oracle RAC)	Yes	Supported (V20L10 or later)	Planned 2	N.A.	The maximum number of LUNs is up to 128 per server when using VxVM 5.0. When configuring cluster by Veritas environment, there is a limitation of number of paths from one storage. Please satisfy the formula below. - for ETERNUS DX80 S2/DX90 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 64000 - for DX60 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 32767 When one storage is used by multiple clusters, then # of path is the sum of all cluster's path.	
				PCI-bus	LP11000				6.30g	Yes	Supported (V20L10 or later)	Planned 2		Planned 2
				PCI-bus	QLA2340/QLA2342/ QLA2460/QLA2462				5.04	Yes (see notes)	Supported (V20L10 or later)	Planned 2		Planned 2
		Direct/ via switch	PCI-bus/ PCI-Express	SG-XPci1FC-QF2/ SG-XPci2FC-QF2	SFS 4.4.12 or later				Planned 2	Planned 2	N.A.			
				SG-XPci1FC-EM2/ SG-XPci2FC-EM2					Planned 2	Planned 2	N.A.			
				SG-XPci1FC-QF4/ SG-XPci2FC-QF4					Yes	Supported (V20L10 or later)	Planned 2	Planned 2		
				SG-XPci1FC-EM4/ SG-XPci2FC-EM4					Yes	Supported (V20L10 or later)	Planned 2	Planned 2		
		Direct/ via switch	PCI-bus/ PCI-Express	LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	6.30g				Yes	Supported (V20L10 or later)	Planned 2	N.A.	When using VxVM 5.1, the maximum number of LUNs is 128 per server. For VxVM 5.1, download of driver for ETERNUS (Array Support Library) is not necessary. When configuring cluster by Veritas environment, there is a limitation of number of paths from one storage. Please satisfy the formula below. - for ETERNUS DX80 S2/DX90 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 64000 - for DX60 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 32767 When one storage is used by multiple clusters, then # of path is the sum of all cluster's path.	
				LP11000/LP11002/LP1150 LPe11000/LPe11002/LPe1150	6.30g				No	-	Supported (V10L11 or later)	N.A.		
					Yes				Supported (V20L10 or later)	Planned 2	Planned 2			
				QLA2340/QLA2342/QLA2460/ QLA2462/QLA2460/QLA2462/ QLE2464	V5.05				No	-	Supported (V10L11 or later)	Supported (V10L40 or later)		
					Yes				Supported (V20L10 or later)	Planned 2	Planned 2			
					No				-	Supported (V10L11 or later)	Supported (V10L40 or later)			
				SG-XPci1FC-EM4-Z SG-XPci2FC-EM4-Z	SFS 4.4.15		Yes	Supported (V20L10 or later)	Planned 2	Planned 2				
					No		-	Supported (V10L11 or later)	Supported (V10L40 or later)					
				SG-XPci1FC-EM4 SG-XPci2FC-EM4	SFS 4.4.15		Yes	Supported (V20L10 or later)	Planned 2	Planned 2				
					No		-	Supported (V10L11 or later)	Supported (V10L40 or later)					
				SG-XPci1FC-EM2/ SG-XPci2FC-EM2	SFS 4.4.15		Yes	Supported (V20L10 or later)	Planned 2	N.A.				
					Yes		Supported (V20L10 or later)	Planned 2	Planned 2					
				SG-XPci1FC-QF4 SG-XPci2FC-QF4	SFS 4.4.15		No	-	Supported (V10L11 or later)	Supported (V10L40 or later)				
					Yes		Supported (V20L10 or later)	Planned 2	Planned 2					
				SG-XPci1FC-QF4 SG-XPci2FC-QF4	SFS 4.4.15		No	-	Supported (V10L11 or later)	Supported (V10L40 or later)				
				SG-XPci1FC-QF2/ SG-XPci1FC-QL2	SFS 4.4.15		Yes	Supported (V20L10 or later)	Planned 2	N.A.				
	Solaris 8 OS	Direct/ via switch	PCI-bus	LP10000/LP10000DC	6.30g	Refer to "Switch pages" for supported FC switches.	VxVM 5.0	Veritas VCS 5.0 (including Oracle RAC)	Yes	Supported (V20L10 or later)	Planned 2	N.A.	When using VxVM 5.1, the maximum number of LUNs is 128 per server. For VxVM 5.1, download of driver for ETERNUS (Array Support Library) is not necessary. When configuring cluster by Veritas environment, there is a limitation of number of paths from one storage. Please satisfy the formula below. - for ETERNUS DX80 S2/DX90 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 64000 - for DX60 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 32767 When one storage is used by multiple clusters, then # of path is the sum of all cluster's path.	
				LP11000	6.30g				Yes	Supported (V20L10 or later)	Planned 2	Planned 2		
				QLA2340/QLA2342/ QLA2460/QLA2462	5.04				Yes (see notes)	Supported (V20L10 or later)	Planned 2	Planned 2		
		Direct/ via switch	PCI-bus/ PCI-Express	SG-XPci1FC-QF2/ SG-XPci2FC-QF2	SFS 4.4.13					Planned 2	Planned 2	N.A.		
				SG-XPci1FC-EM2/ SG-XPci2FC-EM2						Planned 2	Planned 2	N.A.		
				SG-XPci1FC-QF4/ SG-XPci2FC-QF4					Yes	Supported (V20L10 or later)	Planned 2	Planned 2		
				SG-XPci1FC-EM4/ SG-XPci2FC-EM4					Yes	Supported (V20L10 or later)	Planned 2	Planned 2		

Solaris System	OS	Connected Type	Bus	HBA	Driver Version	Switch	Path Failover	Cluster System	SAN boot	Model			Instruction for use						
										DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA							
SUN Fire	Solaris 8 OS	Direct/ via switch	PCI-bus/ PCI-Express	SG-XPCI1FC-QF2/ SG-XPCI2FC-QF2	SFS4.4.13	Refer to "Switch pages" for supported FC switches.	MPxIO	-	Yes	Supported (V20L10 or later)	Planned 2	N.A.	Please apply the following: for Solaris8 : RSPC 1.8.3 Please apply the latest "Recommended Patch Cluster".						
				SG-XPCI1FC-EM2/ SG-XPCI2FC-EM2					Yes	Supported (V20L10 or later)	Planned 2	N.A.							
		Direct/ via switch		SG-XPCI1FC-QF4/ SG-XPCI2FC-QF4	SFS 4.4.13		MPxIO		Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Planned 2							
				SG-XPCI1FC-EM4/ SG-XPCI2FC-EM4					Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Planned 2							
		Direct/ via switch	PCI-bus	LP10000/LP10000DC	6.30g	Refer to "Switch pages" for supported FC switches.	VxVM 5.0	Veritas VCS 5.0 (including Oracle RAC)	Yes	Supported (V20L10 or later)	Planned 2	N.A.	When using VxVM 5.1, the maximum number of LUNs is 128 per server. For VxVM 5.1, download of driver for ETERNUS (Array Support Library) is not necessary. When configuring cluster by Veritas environment, there is a limitation of number of paths from one storage. Please satisfy the formula below. - for ETERNUS DX80 S2/DX90 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 64000 - for DX60 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 32767 When one storage is used by multiple clusters, then # of path is the sum of all cluster's path.						
				LP11000					6.30g	Yes	Supported (V20L10 or later)	Planned 2		Planned 2					
				QLA2340/QLA2342/ QLA2460/QLA2462					5.04	Yes (see notes)	Supported (V20L10 or later)	Planned 2		Planned 2					
		Direct/ via switch	PCI-bus/ PCI-Express	SG-XPCI1FC-QF2/ SG-XPCI2FC-QF2	SFS 4.4.13				Planned 2	Planned 2	N.A.								
				SG-XPCI1FC-EM2/ SG-XPCI2FC-EM2					Planned 2	Planned 2	N.A.								
				SG-XPCI1FC-QF4/ SG-XPCI2FC-QF4					Yes	Supported (V20L10 or later)	Planned 2	Planned 2							
				SG-XPCI1FC-EM4/ SG-XPCI2FC-EM4					Yes	Supported (V20L10 or later)	Planned 2	Planned 2							
		Other Companies' Servers (x86/x64)	x86/x64 Solaris 11 OS	Direct/ via switch	PCI-Express				SG-XPCIE1FC-EM8/ SG-XPCIE2FC-EM8	OS bundled	Refer to "Switch pages" for supported FC switches.	MPxIO		-	No	Supported (V20L11 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	
									SG-XPCIE1FC-QF8 SG-XPCIE2FC-QF8	OS bundled					No	Supported (V20L11 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	
				Direct/ via switch	PCI-bus				SG-XPCI1FC-EM4-Z SG-XPCI2FC-EM4-Z	OS bundled	Refer to "Switch pages" for supported FC switches.	MPxIO		-	No	Supported (V20L10 or later)	N.A.	N.A.	
									Yes	Planned 2					Supported (V10L11 or later)	Supported (V10L40 or later)			
SG-XPCI1FC-QF4 SG-XPCI2FC-QF4	OS bundled								No	Supported (V20L10 or later)					N.A.	N.A.			
Yes	Planned 2								Supported (V10L11 or later)	Supported (V10L40 or later)									
PCI-Express	SG-XPCIE1FC-EM8/ SG-XPCIE2FC-EM8				OS bundled				No	Supported (V20L10 or later)					N.A.	N.A.			
	Yes				Planned 2				Supported (V10L11 or later)	Supported (V10L40 or later)									
	SG-XPCIE1FC-QF8 SG-XPCIE2FC-QF8				OS bundled	No	Supported (V20L10 or later)	N.A.	N.A.										
	Yes				Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)												
	Planned 2				Planned 2	Planned 2													
	Planned 2				Supported (V10L11 or later)	Supported (V10L40 or later)													
via switch	PCI-Express			Brocade 1860			Planned 2	Planned 2	Planned 2										
				Brocade 815/825	OS bundled	No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)										
				Brocade 415/425	OS bundled	No	Planned 2	Planned 2	Planned 2										

Notes

- For each Operating System, HBA, HBA, Path Failover software, Cluster System software, please apply necessary patches which are suggested by the product suppliers.
- When enabling Jumbo Frame setting, please disable "Flow Control" of LAN switch.
- If multipath configuration is supported, then single path configuration is also supported. But multipath configuration may be mandatory because of cluster requirement.
- When connecting ETERNUS disk array and server on iSCSI via LAN switch, it is recommended that the speed of network adapter on server and ETERNUS iSCSI host adapter should be matched.
- Recommended example : 10Gbps LAN adapter - LAN switch - 10Gbps iSCSI host interface of ETERNUS

If the speed of network adapter on server and ETERNUS iSCSI host adapter are not matched, then transmission error may occur due to traffic congestion.

- Not recommended example : 10Gbps LAN adapter - LAN switch - 1Gbps host interface of ETERNUS.

iSCSI native connection

Solaris system	OS	Connection type	HBA	Driver version	Path Failover	Cluster System	iSCSI Boot	Model		Instruction for uses
								DX60 S2	DX80 S2 DX90 S2	
Fujitsu M10	Solaris 11 OS	Direct / via switch	On board LAN	OS bundled	MPxIO	—	No	Supported (V20L10 or later)	Supported (V10L40 or later)	Please use Oracle Solaris 11.1 or later.
		Direct / via switch	SP1X7GQ1F/SP1X7GQ2F 7100479/7100477	OS bundled	MPxIO	PCL4.3A20	No	Supported (V20L10 or later)	Supported (V10L40 or later)	
		Direct / via switch	SP1X7HF1F/ 7100563/7100488	OS bundled	MPxIO	PCL4.3A20	No	Supported (V20L10 or later)	Supported (V10L40 or later)	
		Direct / via switch	SE1X7HE3G/ 1109A-Z/X1109A-Z	OS bundled	MPxIO	—	No	Supported (V20L10 or later)	Supported (V10L40 or later)	
	Solaris 10 OS	Direct / via switch	On board LAN	OS bundled	MPxIO	—	No	Supported (V20L10 or later)	Supported (V10L40 or later)	Please use Oracle Solaris 10 OS 1/13 or later.
		Direct / via switch	SP1X7GQ1F/SP1X7GQ2F 7100479/7100477	OS bundled	MPxIO	PCL4.3A20	No	Supported (V20L10 or later)	Supported (V10L40 or later)	
		Direct / via switch	SP1X7HF1F/ 7100563/7100488	OS bundled	MPxIO	PCL4.3A20	No	Supported (V20L10 or later)	Supported (V10L40 or later)	
		Direct / via switch	SE1X7HE3G/ 1109A-Z/X1109A-Z	OS bundled	MPxIO	—	No	Supported (V20L10 or later)	Supported (V10L40 or later)	
SPARC Servers SPARC Enterprise SUN Fire	Solaris 11 OS	Direct / via switch	On board LAN	OS bundled	MPxIO	—	No	Planned 2	Supported (V10L16 or later)	Please use Solaris 11 11/11 or later.
		Direct / via switch	SP1X7HF1F	OS bundled	MPxIO	PCL4.3A20	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
		Direct / via switch	SP1X7GD1F	OS bundled	MPxIO	PCL4.3A20	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
		Direct / via switch	SP1X7GQ1F/SP1X7GQ2F	OS bundled	MPxIO	PCL4.3A20	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
		Direct / via switch	SE5X7GD2G	OS bundled	MPxIO	—	No	Supported (V20L11 or later)	Supported (V10L16 or later)	
		Direct / via switch	SE1X7HE3G	OS bundled	MPxIO	—	No	Supported (V20L11 or later)	Supported (V10L16 or later)	
		Direct / via switch	SE5X7F22G/ SE5X7F32G	OS bundled	MPxIO	—	No	Supported (V20L11 or later)	Supported (V10L16 or later)	
		Direct / via switch	X4447A	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L20 or later)	
		Direct / via switch	X1027A	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L20 or later)	

Solaris system	OS	Connection type	HBA	Driver version	Path Failover	Cluster System	iSCSI Boot	Model		Instruction for uses
								DX60 S2	DX80 S2 DX90 S2	
SPARC Servers SPARC Enterprise SUN Fire	Solaris 10 OS	Direct / via switch	On board LAN of servers below T1000/T2000/T5120/ T5220/T5140/T5240/ T5440/ M3000/M4000/M5000/ M8000/M9000	OS bundled	MPxIO	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	Please use Solaris 10 10/09 or later. Please apply the following patch - 143645-16 or later
		Direct / via switch	SE0X7GD1F / SE0X7GD2F	3.x/4.x	MPxIO	PCL 4.3A10 /PCL 4.2A00	No	Supported (V20L10 or later)	Supported (V10L12 or later)	Please use Solaris 10 10/09 or later. When using PCL 4.3A10, please use Solaris 10 8/11 or later. Please apply the following patch - 143645-16 or later
		Direct / via switch	SE0X7GQ1F / SE0X7GQ2F	3.x/4.x	MPxIO	PCL 4.3A10 /PCL 4.2A00	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
		Direct / via switch	SE0X7HE1F	1	MPxIO	PCL 4.3A10	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
		Direct / via switch	SE3X7XA1G/SESX7XA1F	OS bundled	MPxIO	PCL 4.3A10	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
		Direct / via switch	SE5X7GD2G	OS bundled	MPxIO	—	No	Supported (V20L11 or later)	Supported (V10L16 or later)	Please use Solaris 10 9/10 or later. Please apply the following patch - 143645-16 or later
		Direct / via switch	SE1X7HE3G	OS bundled	MPxIO	—	No	Supported (V20L11 or later)	Supported (V10L16 or later)	
		Direct / via switch	SE5X7F22G/ SE5X7F32G	OS bundled	MPxIO	—	No	Supported (V20L11 or later)	Supported (V10L16 or later)	
		Direct / via switch	X7280A	OS bundled	MPxIO	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	Please use Solaris 10 10/09 or later. Please apply the following patch - 143645-16 or later
		Direct / via switch	X4447A	OS bundled	MPxIO	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
		Direct / via switch	X1027A	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L20 or later)	
Other Companies' Servers (x86/x64)	x86/x64 Solaris 10 OS Update 8 or later	Direct / via switch	X4446-A	OS bundled	MPxIO	-	No	Supported (V20L10 or later)	Planned 2	Please use Solaris 10 10/09 or later. Please apply the following patch - 143646-16 or later
		Direct / via switch	Intel Pro/1000PT Intel Pro/1000MT	OS bundled	MPxIO	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	

Solaris SAS connection [Edition 147 : January 24, 2018]

Notes

- For each Operating System, HBA, Path Failover software, Cluster System software, please apply necessary patches which are suggested by the product suppliers.
- If multipath configuration is supported, then single path configuration is also supported. But multipath configuration may be mandatory because of cluster requirement.

SAS connection

Solaris system	OS	Connected Type	Bus	HBA				Path Failover	Cluster system	Boot	Model		Instruction for use
				Model name	BIOS version	Firmware version	Driver version				DX60 S2	DX80 S2 DX90 S2	
Fujitsu M10	Solaris 11 OS	Direct	PCI-Express	SP1X7SA3F/LW	-	-	OS bundled	MPxIO	PCL 4.3A	Yes	Supported (V20L11 or later)	Supported (V10L40 or later)	- Please use Oracle Solaris 11.1 or later. - Please limit the number of LUNs to 128 or less, since path recovery may take a long time due to driver's operation with 256 LUNs.
		Direct	PCI-Express	SE0X7SA2F/ SG-SAS6-EXT-Z/ 7105387	-	-	OS bundled	MPxIO	PCL 4.3A	Yes	Supported (V20L11 or later)	Supported (V10L40 or later)	
		Direct	PCI-Express	SG-PCIE8SAS-E-Z-N/ SG-XPCIE8SAS-E-Z-N	-	-	OS bundled	MPxIO	-	Yes	Supported (V20L11 or later)	Supported (V10L40 or later)	
	Solaris 10 OS	Direct	PCI-Express	SE0X7SA2F/ SG-SAS6-EXT-Z/ 7105387	-	-	OS bundled	MPxIO	PCL 4.3A	Yes	Supported (V20L11 or later)	Supported (V10L40 or later)	- Please use Oracle Solaris 10 OS 1/13 or later. - Please limit the number of LUNs to 128 or less, since path recovery may take a long time due to driver's operation with 256 LUNs.
		Direct	PCI-Express	SG-PCIE8SAS-E-Z-N/ SG-XPCIE8SAS-E-Z-N	-	-	OS bundled	MPxIO	-	Yes	Supported (V20L11 or later)	Supported (V10L40 or later)	
SPARC Servers SPARC Enterprise	Solaris 11 OS	Direct	PCI-Express	SE0X7SA2F	-	-	OS bundled	MPxIO	PCL 4.3A	Yes	Supported (V20L11 or later)	Supported (V10L40 or later)	- Please limit the number of LUNs to 128 or less, since path recovery may take a long time due to driver's operation with 256 LUNs.
		Direct	PCI-Express	SE5X7SA1G	-	-	OS bundled	MPxIO	-	Yes	Supported (V20L11 or later)	Supported (V10L40 or later)	
	Solaris 10 OS	Direct	PCI-Express	SE0X7SA1X	-	-	FUJITSU ULTRA LVD SCSI Host Bus Adapter Driver 2.1 Update1 or patch 914572-07	EMPD	PCL 4.2A00	Yes	Supported (V20L10 or later)	Planned 2	- For DX60 S2, when using EMPD 3.0.2 or prior, please apply patch 914267-13 or later.
		Direct			-	-	FUJITSU ULTRA LVD SCSI Host Bus Adapter Driver 3.0	EMPD	-	Yes	Supported (V20L10 or later)	Planned 2	
		Direct	PCI-Express	SE0X7SA2F	-	-	OS bundled	MPxIO	PCL 4.3A PCL 4.2A00	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Please apply Solaris 10 Update 9 or later. - Please limit the number of LUNs to 128 or less, since path recovery may take a long time due to driver's operation with 256 LUNs.
	Solaris 10 OS 9/10 or later	Direct	PCI-Express	SE5X7SA1G	-	-	OS bundled	MPxIO	-	Yes	Supported (V20L11 or later)	Supported (V10L40 or later)	
	Solaris 10 OS	Direct	PCI-Express PCI-X	SG-XPCIE8SAS-E-Z SG-XPCIB8SAS-E-Z	-	1.1a.03.00	OS bundled	MPxIO	-	No	Supported (V20L10 or later)	N.A.	- Please apply Solaris 10 5/09 or later. - Please limit the number of LUNs to 128 or less, since path recovery may take a long time due to driver's operation with 256 LUNs.
		Direct/ via Switch			-	1.1a.03.00	OS bundled	MPxIO	-	Yes	N.A.	Supported (V10L11 or later)	
Other Companies' Servers (x86/x64)	x86/x64 Solaris 10 OS	Direct/ via Switch	PCI-Express PCI-X	SG-XPCIE8SAS-E-Z SG-XPCIB8SAS-E-Z	-	1.1a.03.00	OS bundled	MPxIO	-	Yes	N.A.	Supported (V10L11 or later)	- Please apply Solaris 10 5/09 or later. - Please limit the number of LUNs to 128 or less, since path recovery may take a long time due to driver's operation with 256 LUNs.

Note - For each Operating System, HBA, Path Failover software, Cluster System software, please apply necessary patches which are suggested by the product suppliers.
 - If multipath configuration is supported, then single path configuration is also supported. But multipath configuration may be mandatory because of cluster requirement.

FC-FCoE(switch) connection : This sheet is for the system of connection of Server(CNA card) -- FCoE switch - ETERNUS FC port.

Solaris system	OS	Connection type			HBA				Path Failover	Cluster system	SAN boot	Model		Instruction for uses
		via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6730, NOS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE Driver version				DX60 S2	DX80 S2 DX90 S2	
Fujitsu M10	Solaris 11 OS	Supported	Supported	Supported	SP1X7FBR2F/SP1X7FBS2F 7101673/7101674 (7101677/7101678)	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	Please use Oracle Solaris 11.1
									EMPD 3.1.0 or later	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	
		Supported	Supported	Supported	SP1X7FBR2F/SP1X7FBS2F 7101683/7101684 (7101687/7101688)	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	
									EMPD 3.1.0 or later	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	
	Solaris 10 OS	Supported	Supported	Planned 2	SE0X7EC12F/SE0X7EF12F/ SG-PCIEFCOE2-Q-TA/ SG-PCIEFCOE2-Q-SR/ 7105382/7105381/ QLE8140/QLE8142/ QLE8150/QLE8152	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported(V10L20 or later)	Please use Oracle Solaris 10 OS 1/13 or later.
		Supported	Supported	Supported	SP1X7FBR2F/SP1X7FBS2F 7101673/7101674 (7101677/7101678)	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	
		Supported	Supported	Supported	SP1X7FBR2F/SP1X7FBS2F 7101683/7101684 (7101687/7101688)	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	
		Supported	Supported	Planned 2	SE0X7EC12F/SE0X7EF12F/ SG-PCIEFCOE2-Q-TA/ SG-PCIEFCOE2-Q-SR/ 7105382/7105381/ QLE8140/QLE8142/ QLE8150/QLE8152	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported(V10L20 or later)	

Solaris system	OS	Connection type			HBA				Path Failover	Cluster system	SAN boot	Model		Instruction for uses
		via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6730, NOS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE Driver version				DX60 S2	DX80 S2 DX90 S2	
SPARC Servers SPARC Enterprise	Solaris 11 OS	Supported	Supported	Supported	7101673/7101674 (+7101677/7101678)	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	Please use Oracle Solaris 11.1 or later.
									EMPD 3.1.0 or later	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	
		Supported	Supported	Supported	7101683/7101684 (+7101687/7101688)	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	
									EMPD 3.1.0 or later	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	
		Supported	Supported	Supported	7101681/7101682 (+7101677/7101678)	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	
									EMPD 3.1.0 or later	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	
		Supported	Supported	Supported	7101689/7101690 (+7101687/7101688)	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	
									EMPD 3.1.0 or later	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	
	Solaris 10 OS	Supported	Supported	Planned 2	SE0X7EC12F/SE0X7EF12F	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported(V10L20 or later)	Please use Oracle Solaris 11.1
		Supported	Planned 2	Planned 2	SG-XPICIEFCOE2-Q-SR, QLE8140/QLE8142	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L20 or later)	Please use Solaris 11 11/11 or later.
		Supported	Planned 2	Planned 2	SG-XPICIEFCOE2-Q-TA QLE8150/QLE8152	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L20 or later)	
		Supported	Supported	Supported	7101673/7101674 (+7101677/7101678)	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	Please use Oracle Solaris 10 OS 1/13 or later.
									EMPD 3.1.0 or later	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	
		Supported	Supported	Supported	7101683/7101684 (+7101687/7101688)	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	
									EMPD 3.1.0 or later	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	
		Supported	Supported	Supported	7101681/7101682 (+7101677/7101678)	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	
									EMPD 3.1.0 or later	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	
		Supported	Supported	Supported	7101689/7101690 (+7101687/7101688)	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	
									EMPD 3.1.0 or later	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	
		Supported	Supported	Planned 2	SE0X7EC12F/SE0X7EF12F	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported(V10L20 or later)	Please use Solaris 10 8/11 or later.
		Supported	Supported	Planned 2	SE0X7EC12F/SE0X7EF12F	-	-	OS bundled	MPxIO	PCL 4.2A00	No	Supported (V20L10 or later)	△	Please use Solaris 10 9/10 or later.
		Supported	Planned 2	Planned 2	SG-XPICIEFCOE2-Q-SR, QLE8140/QLE8142	-	-	OS bundled	MPxIO	-	No	Supported (V20L10 or later)	Supported (V10L10 or later)	Please Use Solaris 10 9/10 or later
		Supported	Planned 2	Planned 2	SG-XPICIEFCOE2-Q-TA QLE8150/QLE8152	-	-	OS bundled	MPxIO	-	No	Supported (V20L10 or later)	Supported (V10L10 or later)	Please Use Solaris 10 9/10 or later

Note - For each Operating System, HBA, Path Failover software, Cluster System software, please apply necessary patches which are suggested by the product suppliers.
 - If multipath configuration is supported, then single path configuration is also supported. But multipath configuration may be mandatory because of cluster requirement.

iSCSI-FCoE(switch) connection : This sheet is for the system of connection of Server(CNA card) — FCoE switch – ETERNUS iSCSI port.

Solaris system	OS	Connection type			HBA				Path Failover	Cluster system	SAN boot	Model		Instruction for uses
		via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6710/6720/ 6730, NOS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE Driver version				DX60 S2	DX80 S2 DX90 S2	
Fujitsu M10	Solaris 11 OS	Supported	Supported	Supported	SP1X7FBR2F/SP1X7FBS2F 7101673/7101674 (7101677/7101678)	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported(V10L52 or later)	Please use Oracle Solaris 11.1 or later.
		Supported	Supported	Supported	SP1X7FBR2F/SP1X7FBS2F 7101683/7101684 (7101687/7101688)	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported(V10L52 or later)	
		Supported	Supported	-	SE0X7EC12F/SE0X7EF12F/ SG-PCIEFCOE2-Q-TA/ SG-PCIEFCOE2-Q-SR/ 7105382/7105381/ QLE8140/QLE8142/ QLE8150/QLE8152	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L20 or later)	
	Solaris 10 OS	Supported	Supported	Supported	SP1X7FBR2F/SP1X7FBS2F 7101673/7101674 (7101677/7101678)	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported(V10L52 or later)	Please use Oracle Solaris 10 OS 1/13 or later.
		Supported	Supported	Supported	SP1X7FBR2F/SP1X7FBS2F 7101683/7101684 (7101687/7101688)	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported(V10L52 or later)	
		Supported	Supported	-	SE0X7EC12F/SE0X7EF12F/ SG-PCIEFCOE2-Q-TA/ SG-PCIEFCOE2-Q-SR/ 7105382/7105381/ QLE8140/QLE8142/ QLE8150/QLE8152	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L20 or later)	
SPARC Servers SPARC Enterprise	Solaris 11 OS	Supported	Supported	Supported	7101673/7101674 (+7101677/7101678)	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	Please use Oracle Solaris 11.1 or later.
		Supported	Supported	Supported	7101683/7101684 (+7101687/7101688)	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	
		Supported	Supported	Supported	7101681/7101682 (+7101677/7101678)	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	
		Supported	Supported	Supported	7101689/7101690 (+7101687/7101688)	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	
		Supported	Supported	Planned 2	SG-XPCIEFCOE2-Q-SR, QLE8140/QLE8142	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L20 or later)	
		Supported	Supported	Planned 2	SG-XPCIEFCOE2-Q-TA QLE8150/QLE8152	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L20 or later)	
	Solaris 10 OS	Supported	Supported	Supported	7101673/7101674 (+7101677/7101678)	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	Please use Oracle Solaris 10 OS 1/13 or later.
		Supported	Supported	Supported	7101683/7101684 (+7101687/7101688)	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	
		Supported	Supported	Supported	7101681/7101682 (+7101677/7101678)	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	
		Supported	Supported	Supported	7101689/7101690 (+7101687/7101688)	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L52 or later)	Please use Solaris 10 8/11 or later.
		Supported	Supported	Planned 2	SG-XPCIEFCOE2-Q-SR, QLE8140/QLE8142	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L12 or later)	
		Supported	Supported	Planned 2	SG-XPCIEFCOE2-Q-TA QLE8150/QLE8152	-	-	OS bundled	MPxIO	-	No	Supported (V20L11 or later)	Supported (V10L12 or later)	

Note - For each Operating System, HBA, Path Failover software, Cluster System software, please apply necessary patches which are suggested by the product suppliers.
 - If multipath configuration is supported, then single path configuration is also supported. But multipath configuration may be mandatory because of cluster requirement.

FCoE-FCoE(switch) connection : This sheet is for the system of connection of Server(CNA card) -- FCoE switch - ETERNUS FCoE port.

Solaris system	OS	Connection type			HBA				Path Failover	Cluster system	SAN boot	Model	Instruction for uses
		via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6710/6720/ 6730, NOS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE Driver version				DX80 S2 DX90 S2	
Fujitsu M10	Solaris 11 OS	Supported	Supported	Supported	SP1X7FBR2F/SP1X7FBS2F 7101673/7101674 (7101677/7101678)	-	-	OS bundled	MPxIO	-	No	Supported (V10L52 or later)	Please use Oracle Solaris 11.1 or later.
									EMPD 3.1.0 or later	-	No	Supported (V10L52 or later)	
		Supported	Supported	Supported	SP1X7FBR2F/SP1X7FBS2F 7101683/7101684 (7101687/7101688)	-	-	OS bundled	MPxIO	-	No	Supported (V10L52 or later)	
									EMPD 3.1.0 or later	-	No	Supported (V10L52 or later)	
	Solaris 10 OS	Supported	Supported	-	SE0X7EC12F/SE0X7EF12F/ SG-PCIEFCOE2-Q-TA/ SG-PCIEFCOE2-Q-SR/ 7105382/7105381/ QLE8140/QLE8142/ QLE8150/QLE8152	-	-	OS bundled	MPxIO	-	Yes	Supported (V10L20 or later)	Please use Oracle Solaris 10 OS 1/13 or later.
		Supported	Supported	Supported	SP1X7FBR2F/SP1X7FBS2F 7101673/7101674 (7101677/7101678)	-	-	OS bundled	MPxIO	-	No	Supported (V10L52 or later)	
									EMPD 3.1.0 or later	-	No	Supported (V10L52 or later)	
		Supported	Supported	-	SE0X7EC12F/SE0X7EF12F/ SG-PCIEFCOE2-Q-TA/ SG-PCIEFCOE2-Q-SR/ 7105382/7105381/ QLE8140/QLE8142/ QLE8150/QLE8152	-	-	OS bundled	MPxIO	-	Yes	Supported (V10L20 or later)	

Solaris system	OS	Connection type			HBA				Path Failover	Cluster system	SAN boot	Model	Instruction for uses
		via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6710/6720/ 6730, NOS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE Driver version				DX80 S2 DX90 S2	
SPARC Servers SPARC Enterprise	Solaris 11 OS	Supported	Supported	Supported	7101673/7101674 (*7101677/7101678)	-	-	OS bundled	MPxIO	-	No	Supported (V10L52 or later)	Please use Oracle Solaris 11.1 or later.
									EMPD 3.1.0 or later	-	No	Supported (V10L52 or later)	
		Supported	Supported	Supported	7101683/7101684 (*7101687/7101688)	-	-	OS bundled	MPxIO	-	No	Supported (V10L52 or later)	
									EMPD 3.1.0 or later	-	No	Supported (V10L52 or later)	
		Supported	Supported	Supported	7101681/7101682 (*7101677/7101678)	-	-	OS bundled	MPxIO	-	No	Supported (V10L52 or later)	
									EMPD 3.1.0 or later	-	No	Supported (V10L52 or later)	
		Supported	Supported	Supported	7101689/7101690 (*7101687/7101688)	-	-	OS bundled	MPxIO	-	No	Supported (V10L52 or later)	Please use Solaris 11 11/11 or later.
									EMPD 3.1.0 or later	-	No	Supported (V10L52 or later)	
		Supported	Supported	Planned 2	SG-XPICIEFCOE2-Q-SR, QLE8140/QLE8142	-	-	OS bundled	MPxIO	-	No	Supported (V10L20 or later)	Please use Solaris 11 11/11 or later.
		Supported	Supported	Planned 2	SG-XPICIEFCOE2-Q-TA QLE8150/QLE8152	-	-	OS bundled	MPxIO	-	No	Supported (V10L20 or later)	
	Solaris 10 OS	Supported	Supported	Supported	7101673/7101674 (*7101677/7101678)	-	-	OS bundled	MPxIO	-	No	Supported (V10L52 or later)	Please use Oracle Solaris 10 OS 1/13 or later.
									EMPD 3.1.0 or later	-	No	Supported (V10L52 or later)	
		Supported	Supported	Supported	7101683/7101684 (*7101687/7101688)	-	-	OS bundled	MPxIO	-	No	Supported (V10L52 or later)	
									EMPD 3.1.0 or later	-	No	Supported (V10L52 or later)	
		Supported	Supported	Supported	7101681/7101682 (*7101677/7101678)	-	-	OS bundled	MPxIO	-	No	Supported (V10L52 or later)	
									EMPD 3.1.0 or later	-	No	Supported (V10L52 or later)	
		Supported	Supported	Supported	7101689/7101690 (*7101687/7101688)	-	-	OS bundled	MPxIO	-	No	Supported (V10L52 or later)	Please use Solaris 10 9/10 or later.
									EMPD 3.1.0 or later	-	No	Supported (V10L52 or later)	
		Supported	Supported	Planned 2	OCe10102 HP: NC551/NC551m CN1000E	-	-	OS bundled	MPxIO	-	No	Supported (V10L11 or later)	
		Supported	Supported	Planned 2	SG-XPICIEFCOE2-Q-SR, QLE8140/QLE8142	-	-	OS bundled	MPxIO	-	No	Supported (V10L11 or later)	
		Supported	Supported	Planned 2	SG-XPICIEFCOE2-Q-TA QLE8150/QLE8152	-	-	OS bundled	MPxIO	-	No	Supported (V10L11 or later)	
Other Companies' Servers (x86/x64)	x86/x64 Solaris 10 OS	Supported	Supported	Planned 2	OCe10102 HP: NC551/NC551m CN1000E	-	-	OS bundled	MPxIO	-	No	Supported (V10L11 or later)	Please use Solaris 10 9/10 or later.
		Supported	Planned 2	Planned 2	SG-XPICIEFCOE2-Q-TA QLE8150/QLE8152	-	-	OS bundled	MPxIO	-	No	Supported (V10L11 or later)	Please use Solaris 10 9/10 or later.
		Planned 2	Planned 2	Planned 2	BROCADE 1010/1020				MPxIO	-	No	Planned 2	

Notes

- For each Operating System, Path Failover software, Cluster System software, please apply necessary patches which are suggested by the product suppliers.
- If multipath configuration is supported, then single path configuration is also supported. But multipath configuration may be mandatory because of cluster requirement.

HP-UX System	OS	Connected Type	Bus	HBA	Driver Version	Switch	Path Failover	Cluster System	SAN boot	Model		Instruction for use
										DX60 S2	DX80 S2 DX90 S2	
HP 9000 Server rp series SuperDome HP Integrity Server rx series SuperDome	HP-UX 11iV3(IPF) + Integrity VM4.1	Direct via switch	PCI-bus/ PCI-Express	A6826A	OS bundled	Refer to "Switch pages" for supported FC switches.	Native Multipath	-	No	Supported (V20L10 or later)	Supported (V10L50 or later)	
				A6795A	OS bundled				No	Supported (V20L10 or later)	Supported (V10L50 or later)	
				AB378A/AB378B/ AB379A/AB379B	OS bundled				No	Supported (V20L10 or later)	Supported (V10L50 or later)	
				AD193A/AD194A	OS bundled				No	Supported (V20L10 or later)	Supported (V10L50 or later)	
				AD300A	OS bundled				No	Supported (V20L10 or later)	Supported (V10L50 or later)	
				AD299A/AD355A	OS bundled				No	Supported (V20L10 or later)	Supported (V10L50 or later)	
				AH400A/AH401A	OS bundled				No	Supported (V20L10 or later)	Supported (V10L50 or later)	
				AH402A/AH403A	OS bundled				No	Supported (V20L10 or later)	Supported (V10L50 or later)	
				403619-B21(QMH2462)	OS bundled				No	Supported (V20L10 or later)	Supported (V10L50 or later)	
				451871-B21(QMH2562)	OS bundled				No	Supported (V20L10 or later)	Supported (V10L50 or later)	
				403621-B21(LPe1105)	OS bundled				No	Supported (V20L10 or later)	Supported (V10L50 or later)	
				456972-B21(LPe1205)	OS bundled				No	Supported (V20L10 or later)	Supported (V10L50 or later)	
	HP-UX 11iV3	via switch	PCI-bus/ PCI-Express	A6826A	OS bundled	Refer to "Switch pages" for supported FC switches.	VxVM 5.1	VCS 5.1	No	Planned 2	Supported (V10L50 or later)	When configuring cluster by Veritas environment, there is a limitation of number of paths from one storage. Please satisfy the formula below. - for ETERNUS DX80 S2/DX90 S2 $\# \text{ of LUNs shared among cluster} \times \# \text{ of paths to the LUN from one node} \times \# \text{ of nodes} < 64000$ When one storage is used by multiple clusters, then $\#$ of path is the sum of all cluster's path.
				A6795A	OS bundled				No	Planned 2	Supported (V10L50 or later)	
				AB378A/AB378B/ AB379A/AB379B	OS bundled				No	Planned 2	Supported (V10L50 or later)	
				AD193A/AD194A	OS bundled				No	Planned 2	Supported (V10L50 or later)	
				AD300A	OS bundled				No	Planned 2	Supported (V10L50 or later)	
				AD299A/AD355A	OS bundled				No	Planned 2	Supported (V10L50 or later)	
				AH400A/AH401A	OS bundled				No	Planned 2	Supported (V10L50 or later)	
				AH402A/AH403A	OS bundled				No	Planned 2	Supported (V10L50 or later)	

HP-UX System	OS	Connected Type	Bus	HBA	Driver Version	Switch	Path Failover	Cluster System	SAN boot	Model		Instruction for use
										DX60 S2	DX80 S2 DX90 S2	
HP 9000 Server rp series SuperDome HP Integrity Server rx series SuperDome	HP-UX 11iV3	Direct via switch	PCI-bus/ PCI-Express	A6826A	OS bundled	Refer to "Switch pages" for supported FC switches.	PV-Links	Serviceguard	Yes	Supported (V20L10 or later)	Planned 2	When connecting with HP-UX, the maximum number of LUNs is up to 128.
				No	-				Supported (V10L50 or later)			
				Yes	Supported (V20L10 or later)				Planned 2			
				No	-				Supported (V10L50 or later)			
				Yes	Supported (V20L10 or later)				Planned 2			
				No	-				Supported (V10L50 or later)			
				Yes	Supported (V20L10 or later)				Planned 2			
				No	-				Supported (V10L50 or later)			
				Yes	Supported (V20L10 or later)				Planned 2			
				No	-				Supported (V10L50 or later)			
				Yes	Supported (V20L10 or later)				Planned 2			
				No	-				Supported (V10L50 or later)			
				Yes	Supported (V20L10 or later)				Planned 2			
				No	-				Supported (V10L50 or later)			
				Yes	Supported (V20L10 or later)				Planned 2			
				No	-				Supported (V10L50 or later)			

HP-UX System	OS	Connected Type	Bus	HBA	Driver Version	Switch	Path Failover	Cluster System	SAN boot	Model		Instruction for use
										DX60 S2	DX80 S2 DX90 S2	
HP 9000 Server rp series SuperDome HP Integrity Server rx series SuperDome	HP-UX 11v3	Direct/ via switch	PCI-bus/ PCI-Express	A6826A	OS bundled	Refer to "Switch pages" for supported FC switches.	Native Multipath	Serviceguard	Yes	Supported (V20L10 or later)	Planned 2	When connecting with HP-UX, the maximum number of LUNs is up to 128.
				No	-				Supported (V10L50 or later)			
				A6795A	OS bundled				Yes	Supported (V20L10 or later)	Planned 2	
				No	-				Supported (V10L50 or later)			
				AB378A/AB378B/ AB379A/AB379B	OS bundled				Yes	Supported (V20L10 or later)	Planned 2	
				No	-				Supported (V10L50 or later)			
				AD193A/AD194A	OS bundled				Yes	Supported (V20L10 or later)	Planned 2	
				No	-				Supported (V10L50 or later)			
				AD300A	OS bundled				Yes	Supported (V20L10 or later)	Planned 2	
				No	-				Supported (V10L50 or later)			
				AD299A/AD355A	OS bundled				Yes	Supported (V20L10 or later)	Planned 2	
				No	-				Supported (V10L50 or later)			
				AH400A/AH401A	OS bundled				Yes	Supported (V20L10 or later)	Planned 2	
				No	-				Supported (V10L50 or later)			
				AH402A/AH403A	OS bundled				Yes	Supported (V20L10 or later)	Planned 2	
				No	-				Supported (V10L50 or later)			
				403619-B21(QMH2462)	OS bundled				Yes	Supported (V20L10 or later)	Planned 2	
				No	-				Supported (V10L50 or later)			
				451871-B21(QMH2562)	OS bundled				Yes	Supported (V20L10 or later)	Planned 2	
				No	-				Supported (V10L50 or later)			
				403621-B21(LPe1105)	OS bundled				Yes	Supported (V20L10 or later)	Planned 2	
				No	-				Supported (V10L50 or later)			
				456972-B21(LPe1205)	OS bundled				Yes	Supported (V20L10 or later)	Planned 2	
				No	-				Supported (V10L50 or later)			

HP-UX System	OS	Connected Type	Bus	HBA	Driver Version	Switch	Path Failover	Cluster System	SAN boot	Model		Instruction for use		
										DX60 S2	DX80 S2 DX90 S2			
HP 9000 Server rp series SuperDome HP Integrity Server rx series SuperDome	HP-UX 11i/2 (HP-UX 11.23)	Direct via switch	PCI-bus/ PCI-Express	A6826A	OS bundled	Refer to "Switch pages" for supported FC switches.	PV-Links	Serviceguard	Yes	Supported (V20L10 or later)	Supported (V10L50 or later)	When connecting with HP-UX, the maximum number of LUNs is up to 128.		
				No	-				Supported (V10L50 or later)					
				Yes	Supported (V20L10 or later)				Supported (V10L50 or later)					
				No	-				Supported (V10L50 or later)					
				Yes	Supported (V20L10 or later)				Planned 2					
				No	-				Supported (V10L50 or later)					
				Yes	Supported (V20L10 or later)				Planned 2					
				No	-				Supported (V10L50 or later)					
				Yes	Supported (V20L10 or later)				Planned 2					
				No	-				Supported (V10L50 or later)					
				Yes	Supported (V20L10 or later)				Planned 2					
				No	-				Supported (V10L50 or later)					
				Yes	Supported (V20L10 or later)				Planned 2					
				No	-				Supported (V10L50 or later)					
				Yes	Supported (V20L10 or later)				Planned 2					
	via switch	PCI-bus/ PCI-Express	403619-B21(QMH2462)	OS bundled	VxVM 5.0		Veritas VCS 5.0 (including Oracle RAC) Note 1	No	Supported (V20L10 or later)	Planned 2	When connecting with HP-UX, the maximum number of LUNs is up to 128. When configuring cluster by Veritas environment, there is a limitation of number of paths from one storage. Please satisfy the formula below. - for ETERNUS DX80 S2/DX90 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 64000 - for DX60 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 32767 When one storage is used by multiple clusters, then # of path is the sum of all cluster's path.			
			A6826A	OS bundled				No	Supported (V20L10 or later)	Planned 2				
			A6795A	OS bundled				No	Supported (V20L10 or later)	Planned 2				
			AB378A/AB378B/ AB379A/AB379B	OS bundled				No	Supported (V20L10 or later)	Planned 2				
			AD193A/AD194A	OS bundled				No	Supported (V20L10 or later)	Planned 2				
			AD300A	OS bundled				No	Supported (V20L10 or later)	Planned 2				
			AD299A/AD355A	OS bundled				No	Supported (V20L10 or later)	Planned 2				
			403619-B21(QMH2462)	OS bundled				No	Supported (V20L10 or later)	Planned 2				
			A9784A	OS bundled				-	-	No		Supported (V20L10 or later)	Planned 2	When connecting with HP-UX, the maximum number of LUNs is up to 128.
			A6826A	OS bundled						No		Planned 2	Supported (V10L50 or later)	
			A9784A/A6795A	OS bundled						No		Planned 2	Supported (V10L50 or later)	

Note 1 : When configuring cluster under Veritas environment, the number of paths for one storage has an upper limit. Please use the formula below.
 The number of LUNs shared among clusters x the number of path to these LUNs of one node x the number of nodes < 1024
 If multiple clusters are configured with one storage, the left side of above formula is sum of each cluster's above value.

HP-UX iSCSI connection [Edition 147 : January 24, 2018]

Notes

- For each Operating System, Path Failover software, Cluster System software, please apply necessary patches which are suggested by the product suppliers.
- When enabling Jumbo Frame setting, please disable "Flow Control" of LAN switch.
- If multipath configuration is supported, then single path configuration is also supported. But multipath configuration may be mandatory because of cluster requirement.
- When connecting ETERNUS disk array and server on iSCSI via LAN switch, it is recommended that the speed of network adapter on server and ETERNUS iSCSI host adapter should be matched.
- Recommended example : 10Gbps LAN adapter - LAN switch - 10Gbps iSCSI host interface of ETERNUS

If the speed of network adapter on server and ETERNUS iSCSI host adapter are not matched, then transmission error may occur due to traffic congestion.

- Not recommended example : 10Gbps LAN adapter - LAN switch - 1Gbps host interface of ETERNUS.

iSCSI native connection

HP-UX	OS	Connection type	HBA	Driver version	Path Failover	iSCSI Boot	Model		Instruction for uses
							DX60 S2	DX80 S2 DX90 S2	
HP 9000 Server rp series SuperDome HP Integrity Server rx series SuperDome	HP-UX 11iV3	Direct / via switch	AB352 A7012	OS bundled	PV-Links	No	Planned 2	Supported (V10L50 or later)	
					Native MultiPath	No	Planned 2	Supported (V10L50 or later)	
	HP-UX 11iV2	Direct / via switch	HP AB352	OS bundled	PV-Links	No	Supported (V20L10 or later)	Planned 2	

Notes

- For each Operating System, Path Failover software, Cluster System software, please apply necessary patches which are suggested by the product suppliers.
- AIX MPIO 2.0.2 is no longer available from January 12, 2010. Please use EMPD 2.
- If multipath configuration is supported, then single path configuration is also supported. But multipath configuration may be mandatory because of cluster requirement.

AIX System	OS	Connected Type	Bus	HBA	Driver Version	Switch	Path Failover	Cluster System	SAN boot	Model		Instruction for use
										DX60 S2	DX80 S2 DX90 S2	
IBM Power Systems IBM System p	VIOS2.2	Direct/ via switch	PCI-Express	5735	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD 2.2.0 or later	-	No	Planned 2	Supported (V10L25 or later)	*1: VIOS uses EMPD2.0.0, Guest OS uses OS standard (MPIO). - Only AIX 6.1 and AIX 5.3 are supported as Guest OSes. - Only virtual SCSI adapter connection is supported.
		Direct/ via switch	PCI-bus	5758/1905 5759/1910	OS bundled			-	No	Planned 2	Supported (V10L25 or later)	
			PCI-bus	5716/1977	OS bundled				No	Planned 2	Supported (V10L25 or later)	
	VIOS2.1	Direct/ via switch	PCI-Express	5735	OS bundled	Refer to "Switch pages" for supported FC switches.	*1 see "Instruction for use"	-	No	Supported (V20L10 or later)	Supported (V10L19 or later)	
		Direct/ via switch	PCI-bus	5758/1905 5759/1910	OS bundled			-	No	Planned 2	Supported (V10L19 or later)	
			PCI-bus	5716/1977	OS bundled				No	Planned 2	Supported (V10L19 or later)	
IBM RS/6000 SP/xx/xx/xx IBM P series IBM System p IBM Power Systems	AIX 7.1	Direct/ via switch	PCI-bus	5716/1977	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD 2.2.0 or later	-	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
				5758/1905 5759/1910	OS bundled				No	Supported (V20L12 or later)	Supported (V10L35 or later)	
		Direct/ via switch	PCI-Express	5773/5774	OS bundled				No	Supported (V20L12 or later)	Supported (V10L35 or later)	
				5735	OS bundled				No	Supported (V20L12 or later)	Supported (V10L35 or later)	
		Direct/ via switch	PCI-bus	5716/1977	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD 2.1.0 or later	-	No	Planned 2	Supported (V10L11 or later)	
				5758/1905 5759/1910	OS bundled				No	Planned 2	Supported (V10L11 or later)	
		Direct/ via switch	PCI-Express	5773/5774	OS bundled				No	Planned 2	Supported (V10L11 or later)	
				5735	OS bundled				No	Planned 2	Supported (V10L11 or later)	
		Direct/ via switch	PCI-bus	5758/1905 5759/1910	OS bundled	Refer to "Switch pages" for supported FC switches.	VxVM 6.0	VCS 6.0 (including Oracle RAC)	No	Supported (V20L12 or later)	Supported (V10L35 or later)	When using VxVM 6.0, FJspio v20 is required, and the maximum number of LUNs is 128 per server. When configuring cluster by Veritas environment, there is a limitation of number of paths from one storage. Please satisfy the formula below. - for ETERNUS DX80 S2/DX90 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 64000 - for DX60 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 32767 When one storage is used by multiple clusters, then # of path is the sum of all cluster's path.
				5716/1977	OS bundled				No	Supported (V20L12 or later)	Supported (V10L35 or later)	
		Direct/ via switch	PCI-Express	5773/5774	OS bundled				No	Supported (V20L12 or later)	Supported (V10L35 or later)	
				5735	OS bundled				No	Supported (V20L12 or later)	Supported (V10L35 or later)	
		Direct/ via switch	PCI-bus	5758/1905 5759/1910	OS bundled	Refer to "Switch pages" for supported FC switches.	VxVM 5.1	VCS 5.1 (including Oracle RAC) Note 1	No	Planned 2	Supported (V10L11 or later)	When using VxVM 5.1, FJspio v19 is required, and the maximum number of LUNs is 128. For VxVM 5.1, download of driver for ETERNUS (Array Support Library) is not necessary. Thin Provisioning function of ETERNUS can not be used. When configuring cluster by Veritas environment, there is a limitation of number of paths from one storage. Please satisfy the formula below. - for ETERNUS DX80 S2/DX90 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 64000 When one storage is used by multiple clusters, then # of path is the sum of all cluster's path.
				5716/1977	OS bundled				No	Planned 2	Supported (V10L11 or later)	
		Direct/ via switch	PCI-Express	5773/5774	OS bundled				No	Planned 2	Supported (V10L11 or later)	
				5735	OS bundled				No	Planned 2	Supported (V10L11 or later)	

Note 1 : When configuring cluster under Veritas environment, the number of paths for one storage has an upper limit. Please use the formula below.

The number of LUNs shared among clusters x the number of path to these LUNs of one node x the number of nodes < 1024

If multiple clusters are configured with one storage, the left side of above formula is sum of each cluster's above value.

AIX System	OS	Connected Type	Bus	HBA	Driver Version	Switch	Path Failover	Cluster System	SAN boot	Model		Instruction for use
										DX60 S2	DX80 S2 DX90 S2	
IBM RS/6000 SP/xx/xx/xx IBM P series IBM System p IBM Power Systems	AIX 6.1	Direct/ via switch	PCI-bus	5716/1977	OS bundled	Refer to "Switch pages" for supported FC switches.	AIX MPIO 2.0.2	PowerHA/HACMP	Planned 2	Supported (V20L10 or later)	Planned 2	
				5758/1905 5759/1910	OS bundled				Planned 2	Supported (V20L10 or later)	Planned 2	
		Direct/ via switch	PCI-Express	5773/5774	OS bundled				Planned 2	Supported (V20L10 or later)	Planned 2	
				5735	OS bundled				Planned 2	Supported (V20L10 or later)	Planned 2	
		Direct/ via switch	PCI-bus	5716/1977	OS bundled		AIX MPIO 2.0.2	PowerHA 5.5	Planned 2	Supported (V20L10 or later)	Planned 2	
				5758/1905 5759/1910	OS bundled				Planned 2	Supported (V20L10 or later)	Planned 2	
		Direct/ via switch	PCI-Express	5773/5774	OS bundled				Planned 2	Supported (V20L10 or later)	Planned 2	
				5735	OS bundled				Planned 2	Supported (V20L10 or later)	Planned 2	
		Direct/ via switch	PCI-bus	5716/1977	OS bundled		EMPD 2.1.0 or later	PowerHA 5.5	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	
				5758/1905 5759/1910	OS bundled				Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	
		Direct/ via switch	PCI-Express	5773/5774	OS bundled				Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	
				5735	OS bundled				Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	
		Direct/ via switch	PCI-bus	5716/1977	OS bundled		EMPD 2.2.0 or later	PowerHA 6.1	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	
				5758/1905 5759/1910	OS bundled				Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	
		Direct/ via switch	PCI-Express	5773/5774	OS bundled				Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	
				5735	OS bundled				Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	
		Direct/ via switch	PCI-bus	5758/1905 5759/1910	OS bundled		VxVM 5.1	VCS 5.1 (including Oracle RAC) Note 1	No	Supported (V20L10 or later)	Supported (V10L19 or later)	When using VxVM 5.1, Fjspio v19 is required, and the maximum number of LUNs is 128. For VxVM 5.1, download of driver for ETERNUS (Array Support Library) is not necessary. When configuring cluster by Veritas environment, there is a limitation of number of paths from one storage. Please satisfy the formula below. # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 64000 - for ETERNUS DX80 S2/DX90 S2 - for DX80 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 32767 When one storage is used by multiple clusters, then # of path is the sum of all cluster's path.
				5716/1977	OS bundled				No	Supported (V20L10 or later)	Supported (V10L19 or later)	
			PCI-Express	5773/5774	OS bundled				No	Supported (V20L10 or later)	Supported (V10L19 or later)	
				5735	OS bundled				No	Supported (V20L10 or later)	Supported (V10L19 or later)	

Note 1 : When configuring cluster under Veritas environment, the number of paths for one storage has an upper limit. Please use the formula below.
 The number of LUNs shared among clusters x the number of path to these LUNs of one node x the number of nodes < 1024
 If multiple clusters are configured with one storage, the left side of above formula is sum of each cluster's above value.

AIX System	OS	Connected Type	Bus	HBA	Driver Version	Switch	Path Failover	Cluster System	SAN boot	Model		Instruction for use			
										DX60 S2	DX80 S2 DX90 S2				
IBM RS/6000 SP/xx/xx/xx IBM P series IBM System p IBM Power Systems	AIX 5.3	Direct/ via switch	PCI-bus	5716/1977	OS bundled	Refer to "Switch pages" for supported FC switches.	AIX MPIO 2.0.2	PowerHA/HACMP	No	Planned 2	Planned 2				
			5758/1905 5759/1910	OS bundled	No				Planned 2	Planned 2					
		via switch	PCI-Express	5735	OS bundled				No	Planned 2	Planned 2				
		Direct/ via switch	PCI-bus	5716/1977	OS bundled		AIX MPIO 2.0.2	PowerHA 5.5	No	Planned 2	Planned 2				
			5758/1905 5759/1910	OS bundled	No				Planned 2	Planned 2					
		via switch	PCI-Express	5735	OS bundled				No	Planned 2	Planned 2				
		Direct/ via switch	PCI-bus	5716/1977	OS bundled		EMPD 2.2.0 or later	PowerHA 6.1	No	Supported (V20L10 or later)	Supported (V10L35 or later)				
			5758/1905 5759/1910	OS bundled	No				Supported (V20L10 or later)	Supported (V10L35 or later)					
			PCI-Express	5735	OS bundled				No	Supported (V20L10 or later)	Supported (V10L35 or later)				
		Direct/ via switch	PCI-bus	5716/1977	OS bundled		EMPD 2.0.0 or later	PowerHA 5.5	No	Planned 2	Planned 2				
			5758/1905 5759/1910	OS bundled	No				Planned 2	Planned 2					
			PCI-Express	5735	OS bundled				No	Planned 2	Planned 2				
		Direct/ via switch	PCI-bus	5716/1977	OS bundled	See "Instruction for use"	EMPD 2.1.0 or later	-	No	Planned 2	Supported (V10L16 or later)	When connected with FC switch, only Brocade SilkWorm3900/3250/3850/24000 are supported.			
			5758/1905 5759/1910	OS bundled	Yes				Planned 2	Planned 2					
			PCI-Express	5735	OS bundled				Yes	Planned 2	Planned 2				
					Yes				Planned 2	Planned 2					
		Direct/ via switch	PCI-bus	5716/1977	OS bundled	Refer to "Switch pages" for supported FC switches.	VxVM 5.0	Veritas VCS 5.0 (including Oracle RAC) Note 1	No	Supported (V20L12 or later)	Supported (V10L35 or later)	The maximum number of LUNs is up to 128 when using VxVM 5.0. When configuring cluster by Veritas environment, there is a limitation of number of paths from one storage. Please satisfy the formula below. - for ETERNUS DX80 S2/DX90 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 64000 - for DX60 S2 # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 32767 When one storage is used by multiple clusters, then # of path is the sum of all cluster's path.			
		Direct	PCI-bus	5758/1905 5759/1910	OS bundled				No	Supported (V20L12 or later)	Supported (V10L35 or later)				
		via switch							No	Supported (V20L12 or later)	Supported (V10L35 or later)				
		Direct/ via switch	PCI-Express	5773/5774	OS bundled				No	Supported (V20L12 or later)	Supported (V10L35 or later)				
		via switch	PCI-Express	5735	OS bundled				No	Supported (V20L12 or later)	Supported (V10L35 or later)				
									No	Supported (V20L12 or later)	Supported (V10L35 or later)				
		Direct/ via switch	PCI-bus	5758/1905 5759/1910	OS bundled		VxVM 5.1	VCS 5.1 (including Oracle RAC) Note 1	No	Planned 2	Planned 2	When using VxVM 5.1, Fjspio v20 is required, and the maximum number of LUNs is 128. For VxVM 5.1, download of driver for ETERNUS (Array Support Library) is not necessary. When configuring cluster by Veritas environment, there is a limitation of number of paths from one storage. Please satisfy the formula below. When one storage is used by multiple clusters, then # of path is the sum of all cluster's path.			
		PCI-bus	5716/1977	OS bundled	No				Planned 2	Planned 2					
		PCI-Express	5735	OS bundled	No				Planned 2	Planned 2					
	AIX 5.2	AIX 5.2	Direct/ via switch	PCI-bus	5716/1977		OS bundled	Refer to "Switch pages" for supported FC switches.	AIX MPIO 2.0.2	-	No	Planned 2	Planned 2		
					5758/1905 5759/1910	OS bundled	No				Planned 2	Planned 2			
			Direct/ via switch		5716/1977	OS bundled	HACMP 5.4				No	Planned 2	Planned 2		
					5758/1905 5759/1910	OS bundled					No	Planned 2	Planned 2		
			via switch		5716/1977	OS bundled	VxVM 5.0		Veritas VCS 5.0 (including Oracle RAC)	No	Planned 2	Planned 2			
					5758/1905 5759/1910	OS bundled				No	Planned 2	Planned 2			
			Direct/ via switch	PCI-bus	5716/1977	OS bundled	EMPD 2.0.0 or later		HACMP 5.4	No	Planned 2	Planned 2			
					5758/1905 5759/1910	OS bundled				No	Planned 2	Planned 2			
			Direct/ via switch	PCI-bus	5716/1977	OS bundled	See "Instruction for use"		EMPD 2.1.0 or later	-	No	Planned 2	Supported (V10L16 or later)		When connected with FC switch, only Brocade SilkWorm3900/3250/3850/24000 are supported.
				5758/1905 5759/1910	OS bundled										

Note 1 : When configuring cluster under Veritas environment, the number of paths for one storage has an upper limit. Please use the formula below.
The number of LUNs shared among clusters x the number of path to these LUNs of one node x the number of nodes < 1024
If multiple clusters are configured with one storage, the left side of above formula is sum of each cluster's above value.

Windows FC connection [Edition 147 : January 24, 2018]															
Notes - Please contact the Storage System Division when a heterogeneous server environment is created using SilkWorm fibre channel switch(es). - Please contact the Storage System Division when MSCS is used. - For each Operating System, Path Failover software, Cluster System software, please apply necessary patches which are suggested by the product suppliers. - For internal FC-switch of other vender's Blade server, please refer to "FC switch" by checking OEM vender's switch model. - GR MultipathDriver is described as "GRMPD", and ETERNUS MultipathDriver is described as "EMPD". - GRMPD has been terminated, if GRMPD is required, please order EMPD which includes GRMPD in its package. - PCI-bus on Bus column indicates PCI or PCI-X. - For HBA's BIOS and driver, please download the listed version from the RIS (Remote Install Service) website. - Go to the website https://global.fujitsu-ssw.ne.jp/ris/default.htm, then choose "PRIMERGY HBA drivers for ETERNUS connection" at "Firmware Programs" on the left hand side of the frame. - If multipath configuration is supported, then single path configuration is also supported. But multipath configuration may be mandatory because of cluster requirement.															
Windows Server 2016 x64 Editions (64-bit version)	OS	Connected Type	Bus	HBA				Switch	Path Failover	System Configuration WSFC	SAN boot	Model			Instruction for use
				model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMEQUEST 2000 series	Standard/Enterprise/ Datacenter	Direct/ via switch	PCI-Express	MC-QJFC3* MC-QJFC9*	See Instruction for use	See Instruction for use	See Instruction for use	Refer to "Switch pages" for supported FC switches.	EMPD V2.0L23 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.
									MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
	Standard/Enterprise/ Datacenter	Direct/ via switch	PCI-Express	MC-QJFC4* MC-QJFC4*	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L23 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.
									MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
	Standard/Enterprise/ Datacenter	Direct/ via switch	PCI-Express	MC-QJFC7* MC-QJFC8*	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L23 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.
									MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
PRIMERGY	Essentials / Standard/ Datacenter	Direct/ via switch	PCI-Express	PY-FC221/PY-FC221L PYBFC221/PYBFC221L PY-FC222/PY-FC222L PYBFC222/PYBFC222L S26361-F4994-L501/ S26361-F4994-E1/ S26361-F4994-L502/ S26361-F4994-E2	See Instruction for use	See Instruction for use	See Instruction for use	Refer to "Switch pages" for supported FC switches.	EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
									MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
	Essentials / Standard/ Datacenter	Direct/ via switch	PCI-Express	PY-FC212/ PYBFC212/PYBFC212L S26361-F4994-E402/ S26361-F4994-L402	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
									MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
	Essentials / Standard/ Datacenter	Direct/ via switch	PCI-Express	PY-FC201/PY-FC201L PYBFC201/PYBFC201L PY-FC202/PY-FC202L PYBFC202/PYBFC202L	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
									MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
	Essentials / Standard/ Datacenter	Direct/ via switch	PCI-Express	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201 S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
									MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
	Essentials / Standard/ Datacenter	Direct/ via switch	PCI-Express	PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
									MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
	Essentials / Standard/ Datacenter	Direct/ via switch	PCI-Express	PY-FC211/PY-FC211L PYBFC211/PYBFC211L PY-FC212/PY-FC212L PYBFC212/PYBFC212L PG-FC205/PG-FC205L PGBFC205/PGBFC205L PG-FC206/PG-FC206L PGBFC206/PGBFC206L	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
									MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
	Essentials / Standard/ Datacenter	Switch	PCI-Express	PY-FC202 Note 1	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
									MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
Other Companies' Servers	Essentials / Standard/ Datacenter	Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	See Instruction for use	See Instruction for use	See Instruction for use	Refer to "Switch pages" for supported FC switches.	EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and HBA vendor.
		Direct/ via switch		HP: AJ762A/AJ763A IBM: 42D0485/42D0494					MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
	Essentials / Standard/ Datacenter	Direct/ via switch (see "Instruction for use")	PCI-Express	LPe16000B/LPe16002B/ LPe16000L/LPe16002	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
									MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
	Essentials / Standard/ Datacenter	Direct/ via switch	PCI-Express	QLE2690/ QLE2692/ QLE2694	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
		Direct/ via switch							MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
	Essentials / Standard/ Datacenter	Direct/ via switch	PCI-Express	QLE2672/QLE2670 QLE2660/QLE2672	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
		Direct/ via switch							MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
	Essentials / Standard/ Datacenter	Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: A6344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
		Direct/ via switch							MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	

Note 1: For connection with ETERNUS storage, FC switch blade or FC Pass-Thru Blade is required.

Note 1: For connection with ETERNUS storage, FC switch blade or FC Pass-Thru Blade is required.

Windows Server 2012R2 x64 Editions (64-bit version)	OS	Connected Type	Bus	HBA				Switch	Path Failover	System Configuration WSFC	SAN boot	Model			Instruction for use
				model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMEQUEST 2000 series (PQ2800E2/PQ2800L2/ PQ2400E2/PQ2400L2/ PQ2400S2/ PQ2400S2 Lite/ PQ2800B2/ PQ2800E/PQ2800L/ PQ2400E/PQ2400L/ PQ2400S/ PQ2400S Lite/ PQ2800B only)	Standard/Enterprise/ Datacenter	Direct/ via switch	PCI-Express	MC-0JFC3+ MC-0JFC9+ MC-0JFC4+ MC-0JFCA+	See Instruction for use	See Instruction for use	See Instruction for use	Refer to "Switch pages" for supported FC switches.	EMPD V2.0L21 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.
		Direct/ via switch	PCI-Express	MC-0JFC7+ MC-0JFC8+	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L21 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.
		Direct/ via switch	PCI-Express	MC-0JFC5* MC-0JFC6*	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L21 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.
		Direct/ via switch	PCI-Express	MC-0JFCB* MC-0JFCC*	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L21 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.
PRIMEQUEST 1000 series (PQ1400S2/ 1400S2/1400E2/ 1400L2/1800E2/ 1800L2 only)	Hyper-V/ Standard/Datacenter	Direct/ via switch	PCI-Express	MC-0JFC11/MC-0JFC1L /MC-0JFC21/MC-0JFC2L	See Instruction for use	See Instruction for use	See Instruction for use	Refer to "Switch pages" for supported FC switches.	EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 1000 series.
PRIMERGY	Hyper-V/ Standard/Datacenter	Direct/ via switch	PCI-Express	PY-FC221/PY-FC221L PYBFC221/PYBFC221L PY-FC222/PY-FC222L PYBFC222/PYBFC222L S26361-F4994-L501/ S26361-F4994-E1/ S26361-F4994-L502/ S26361-F4994-E2	See Instruction for use	See Instruction for use	See Instruction for use	Refer to "Switch pages" for supported FC switches.	EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
									MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PCI-Express	PY-FCD12/ PYBFCD121/PYBFCD122 S26361-F4994-E402/ S26361-F4994-L402	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
									MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PCI-Express	PY-FC201/PY-FC201L PYBFC201/PYBFC201L PY-FC202/PY-FC202L PYBFC202/PYBFC202L	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
									MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
				PG-FC203/PG-FC203L PGBFC203/PGBFC203L PG-FC204/PG-FC204L PGBFC204/PGBFC204L	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
									MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PCI-Express	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201 S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	
									MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PCI-Express	PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
									MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PCI-Express	PY-FC211/PY-FC211L PYBFC211/PYBFC211L PY-FC212/PY-FC212L PYBFC212/PYBFC212L PG-FC206/PG-FC206L PGBFC206/PGBFC206L PG-FC206/PG-FC206L PGBFC206/PGBFC206L	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
									MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
	Hyper-V/ Standard/Datacenter	Switch	PCI-Express	PY-FCD02 Note 1	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
									MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
									MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	

Note 1: For connection with ETERNUS storage, FC switch blade or FC Pass-Thru Blade is required.

Windows Server 2012R2 x64 Editions (64-bit version)	OS	Connected Type	Bus	HBA				Switch	Path Failover	System Configuration WSFC	SAN boot	Model			Instruction for use
				model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
Other Companies' Servers	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150	See Instruction for use	See Instruction for use	See Instruction for use	Refer to "Switch pages" for supported FC switches.	EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and HBA vendor.
		Direct/ via switch		HP: FC2243/FC2143/ FC2142SR/FC2242SR/ LPe1105-HP IBM: LP1105-BC					MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
		Direct/ via switch		HP: AJ762A/AJ763A IBM: 42D0485/42D0494					MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch (see "Instruction for use")	PCI-Express	LPe16000B/LPe16002B/ LPe16000/LPe16002	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	PCI-Express	QLE2690/ QLE2692/ QLE2694	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	
		Direct/ via switch							MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	PCI-Express	QLE2672/QLE2670 QLE2660/QLE2672	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	
		Direct/ via switch							MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: Ak344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
		Direct/ via switch							MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	PCI-bus PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462/ QLE2464	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
		Direct/ via switch		HP: FC1142SR/FC1242SR/ FC1143/FC1243/ QMH2462(403619-B21) IBM: 39R6525/39R6527 39M5894/39M5895 26R0890/26R0884					MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	via switch	PCI-Express	Brocade 415/425	-	-	-		MSDSM	WSFC	Yes	Planned 2	Planned 2	Planned 2	
		via switch	PCI-Express	Brocade 815/825	-	-	-		EMPD V2.0L20 or later	WSFC	Yes	Planned 2	Planned 2	Planned 2	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	PCI-Express	Brocade 1860	-	-	-		MSDSM	WSFC	Yes	Planned 2	Planned 2	Planned 2	
				-	-	-	EMPD V2.0L20 or later		WSFC	Yes	Planned 2	Planned 2	Planned 2		

Windows Server 2012 x64 Editions (64-bit version)	OS	Connected Type	Bus	HBA				Switch	Path Failover	System Configuration WSFC	SAN boot	Model			Instruction for use
				model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
Other Companies' Servers	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150	2.12a6 or later	2.82a4 or later	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD V2.0L19 or later	WSFC	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	- When Offloaded Data Transfer(ODX) function is used, ETERNUS DX80 S2/DX90 S2 firmware should be upgraded to V10L40 or later, and Windows fix patch KB2796995 should be applied. http://support.microsoft.com/kb/2796995/en-us
		Direct/ via switch		HP: FC2243/FC2143/ FC2142SR/FC2242SR/ LPe1105-HP IBM: LP1105-BC	2.12a6 or later	2.82a4 or later	OS bundled		MSDSM	WSFC	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	5.12a2 or later	2.00a4 or later	OS bundled		EMPD V2.0L19 or later	WSFC	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	- When Offloaded Data Transfer(ODX) function is used, ETERNUS DX80 S2/DX90 S2 firmware should be upgraded to V10L40 or later, and Windows fix patch KB2796995 should be applied. http://support.microsoft.com/kb/2796995/en-us
		Direct/ via switch							MSDSM	WSFC	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch (see "Instruction for use")	PCI-Express	LPe16000B/LPe16002B/ LPe16000L/LPe16002	-	1.1.43.3 or later	2.74.014.001 or later		EMPD V2.0L19 or later	OracleRAC 11gR2 or later	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	- When Offloaded Data Transfer(ODX) function is used, ETERNUS DX80 S2/DX90 S2 firmware should be upgraded to V10L40 or later, and Windows fix patch KB2796995 should be applied. http://support.microsoft.com/kb/2796995/en-us - When using EMPD and connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.
		Direct/ via switch							MSDSM	OracleRAC 11gR2 or later	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PCI-Express	QLE2690/ QLE2692/ QLE2694	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	- When Offloaded Data Transfer(ODX) function is used, ETERNUS DX80 S2/DX90 S2 firmware should be upgraded to V10L40 or later, and Windows fix patch KB2796995 should be applied. http://support.microsoft.com/kb/2796995/en-us - Please use BIOS/Firmware/Driver which are supported by server vendor and HBA vendor.
		Direct/ via switch							MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PCI-Express	QLE2672/QLE2670 QLE2660/QLE2672	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	- When Offloaded Data Transfer(ODX) function is used, ETERNUS DX80 S2/DX90 S2 firmware should be upgraded to V10L40 or later, and Windows fix patch KB2796995 should be applied. http://support.microsoft.com/kb/2796995/en-us - Please use BIOS/Firmware/Driver which are supported by server vendor and HBA vendor.
		Direct/ via switch							MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: A1344/A13764A/ QMH2562/QMH2572 IBM: 42D0501/42D0510	3.00 or later	-	OS bundled		EMPD V2.0L19 or later	WSFC	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	- When Offloaded Data Transfer(ODX) function is used, ETERNUS DX80 S2/DX90 S2 firmware should be upgraded to V10L40 or later, and Windows fix patch KB2796995 should be applied. http://support.microsoft.com/kb/2796995/en-us - When multiple LUNs are accessed simultaneously through one HBA path, and the sum of those accesses exceed the "Execution Throttle" value set in the HBA BIOS, then performance degradation will occur.
		Direct/ via switch							MSDSM	WSFC	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	PCI-bus PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462/ QLE2464	3.00 or later	-	OS bundled		EMPD V2.0L19 or later	OracleRAC 11gR2 or later	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	- When Offloaded Data Transfer(ODX) function is used, ETERNUS DX80 S2/DX90 S2 firmware should be upgraded to V10L40 or later, and Windows fix patch KB2796995 should be applied. http://support.microsoft.com/kb/2796995/en-us
		Direct/ via switch		HP: FC1142SR/FC1242SR/ FC1143/FC1243/ QMH2462/403619-B21) IBM: 39R6525/39R6527 39M5894/39M5895 26R0890/26R0884	3.00 or later	-	OS bundled		MSDSM	OracleRAC 11gR2 or later	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	via switch	PCI-Express	Brocade 415/425	-	-	OS bundled		EMPD V2.0L19 or later	WSFC	Yes	Planned 2	Planned 2	Planned 2	- When Offloaded Data Transfer(ODX) function is used, ETERNUS DX80 S2/DX90 S2 firmware should be upgraded to V10L40 or later, and Windows fix patch KB2796995 should be applied. http://support.microsoft.com/kb/2796995/en-us
		via switch		Brocade 815/825	-	-	OS bundled		MSDSM	WSFC	Yes	Planned 2	Planned 2	Planned 2	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	PCI-Express	Brocade 1860	-	-	OS bundled		EMPD V2.0L19 or later	WSFC	Yes	Planned 2	Planned 2	Supported (V10L40 or later)	
		Direct/ via switch							MSDSM	WSFC	Yes	Planned 2	Planned 2	Supported (V10L40 or later)	

Windows Server 2008 R2 x64 Editions (64-bit version)	OS	Connected Type	Bus	HBA				Switch	Path Failover	System Configuration WSFC	SAN boot	Model			Instruction for use	
				model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA		
PRIMEQUEST 2000 series (PQ2800E/PQ2800L/ PQ2400E/PQ2400L/ PQ2400S/ PQ2400S Lite/ PQ2800B only)	Standard/Enterprise/ Datacenter	Direct/ via switch	PCI-Express	MC-0JFC31/MCX0JFC31/MC-0JFC3/ MC-0JFC91/MCX0JFC91/MC-0JFC9L/ MC-0JFC41/MCX0JFC41/MC-0JFC4/ MC-0JFC41/MCX0JFC41/MC-0JFCAL	See Instruction for use	See Instruction for use	See Instruction for use	Refer to "Switch pages" for supported FC switches.	EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.	
	Standard/Enterprise/ Datacenter	Direct/ via switch	PCI-Express	MC-0JFC71/MCX0JFC71/ MC-0JFC72/MCX0JFC72/MC-0JFC7U/ MC-0JFC81/MCX0JFC81/ MC-0JFC82/MCX0JFC82/MC-0JFC8L	See Instruction for use	See Instruction for use	See Instruction for use		EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.	
PRIMEQUEST 1000 series (PQ1400S/1400E/1400L/ 1800E/1800L only)	Hyper-V, Standard, Enterprise, DataCenter R2	Direct/ via switch	PCI-Express	MC-0JFC11/MC-0JFC1L /MC-0JFC21/MC-0JFC2L	4.00A1	1.11A5	V2.20.006	Refer to "Switch pages" for supported FC switches.	EMPD V2.0L16 or later	WSFC	Yes	Supported (V20L10 or later)	N.A.	Planned 2		
	Hyper-V, Standard, Enterprise, DataCenter R2/R2 SP1				4.00A1	1.11A5	2.41.003		EMPD V2.0L18 or later	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Planned 2		
PRIMEQUEST 1000 series (PQ1400S2/1400E2/ 1400L2/ 1800E2/1800L2 only)	Hyper-V, Standard, Enterprise, DataCenter R2/R2 SP1	Direct/ via switch	PCI-Express		4.00A1	1.11A5	2.20.006		EMPD V2.0L18 or later	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Planned 2		
					4.00a1	1.11A5	2.41.003		EMPD V2.0L18 or later	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Planned 2		
PRIMERGY	Windows 2008 R2 Hyper-V, Standard/Enterprise/ Datacenter, HPC	Direct/ via switch	PCI-Express	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	2.02a2	2.82a3	2.20.006	Refer to "Switch pages" for supported FC switches.	EMPD V2.0L16 or later Note 6	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	- Server/View (Systemwalker) Resource Coordinator VE environment is not supported.	
		Direct/ via switch			2.02a2	2.80a4	2.20.006		EMPD V2.0L16 or later Note 6	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2		
		Direct/ via switch			2.02a2	2.82a3	2.20.006		EMPD V2.0L18 or later Note 6	WSFC	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)		
		Direct/ via switch			2.02a2	2.80a4	2.20.006		MSDSM Note 6	WSFC	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)		
	Windows 2008 R2/R2 SP1 Hyper-V, Standard/Enterprise/ Datacenter, HPC	Direct/ via switch	PCI-Express						EMPD V2.0L18 or later Note 6	WSFC	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)		
									MSDSM Note 6	WSFC	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)		
									EMPD V2.0L18 or later Note 6	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)		
									MSDSM Note 6	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)		
	Hyper-V/ Standard/Datacenter	Direct/ via switch (see "Instruction for use")	PCI-Express	PY-FC221/PY-FC221L PYBFC221/PYBFC221L PY-FC222/PY-FC222L PYBFC222/PYBFC222L S26361-F4994-L501/ S26361-F4994-E1/ S26361-F4994-L502/ S26361-F4994-E2	6.01a15 or later	1.121.106 or later	2.74.009.001 or later		EMPD V2.0L20 or later Note 6	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	- When using EMPD and connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.	
									MSDSM Note 6	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)		
									EMPD V2.0L20 or later Note 6	OracleRAC 11gR2 or later	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)		
									MSDSM Note 6	OracleRAC 11gR2 or later	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)		
	Hyper-V/ Standard/Datacenter	via switch	PCI-Express	PY-FC012/ PYBFC0121/PYBFC0122 S26361-F4994-E402/ S26361-F4994-L402	6.01a15 or later	1.121.106 or later	2.74.009.001 or later		EMPD V2.0L20 or later Note 6	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)		
									MSDSM Note 6	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)		
									EMPD V2.0L20 or later Note 6	OracleRAC 11gR2 or later	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)		
									MSDSM Note 6	OracleRAC 11gR2 or later	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)		
	Windows 2008 R2 Hyper-V, Standard/Enterprise/ Datacenter, HPC	Direct/ via switch	PCI-Express	S26361-F3961-L1/L201/ S26361-F3961-L2L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L	2.02a2	1.11a5	2.20.006		EMPD V2.0L16 or later Note 6	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2		
									EMPD V2.0L18 or later Note 6	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)		
									MSDSM Note 6	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)		
									EMPD V2.0L18 or later Note 6	WSFC EXPRESSCLUSTER X 3.1 or later	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)		
	Windows 2008 R2/R2 SP1 Hyper-V, Standard/Enterprise/ Datacenter, HPC	Direct/ via switch	PCI-Express	S26361-F3961-L1/L201/ S26361-F3961-L2L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L	5.12a2	2.00a4	2.41.003		MSDSM Note 6	WSFC EXPRESSCLUSTER X 3.1 or later	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)		
									EMPD V2.0L18 or later Note 6	WSFC EXPRESSCLUSTER X 3.1 or later	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)		
									MSDSM Note 6	WSFC EXPRESSCLUSTER X 3.1 or later	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)		
									EMPD V2.0L19 or later Note 6	WSFC LifeKeeper	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)		
				S26361-F3961-L1/L201/E1/E201 S26361-F3961-L2L202/E2/E202	5.12a2	2.00a4	2.50.007 or later		MSDSM Note 6	WSFC LifeKeeper	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)		
									EMPD V2.0L19 or later Note 6	OracleRAC 11gR2 or later	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)		
									MSDSM Note 6	OracleRAC 11gR2 or later	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)		
									EMPD V2.0L19 or later Note 6	WSFC LifeKeeper CLUSTERPRO3.1 or later	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)		
				S26361-F3961-L1/L201/E1/E201 S26361-F3961-L2L202/E2/E202	5.12a2	2.00a4	2.50.007 or later		EMPD V2.0L19 or later Note 6	OracleRAC 11gR2 or later	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)		
									MSDSM Note 6	OracleRAC 11gR2 or later	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)		
									EMPD V2.0L19 or later Note 6	WSFC LifeKeeper	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)		
									MSDSM Note 6	OracleRAC 11gR2 or later	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)		

Note 1: For connection with ETERNUS storage, FC switch blade or FC Pass-Thru Blade is required.

Note 6 : When using EMPD on Windows Server 2008 R2, please apply KB2522766. When using MSDSM on Windows Server 2008 R2, please apply KB2522766.

Windows Server 2008 R2 x64 Editions (64-bit version)	OS	Connected Type	Bus	HBA				Switch	Path Failover	System Configuration WSFC	SAN boot	Model			Instruction for use			
				model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA				
PRIMERGY	Windows 2008 R2/R2 SP1 Hyper-V, Standard/Enterprise/ Datacenter, HPC	Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16	-	9.1.8.25 9.1.9.25	Refer to "Switch pages" for supported FC switches.	EMPD V2.0L18 or later Note 6	WSFC EXPRESSCLUSTER X 3.1 or later	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)	- When multiple LUNs are accessed simultaneously through one HBA path, and the sum of those accesses exceed the "Execution Throttle" value set in the HBA BIOS, then performance degradation will occur.			
					2.16	-	9.1.9.25		MSDSM Note 6	WSFC EXPRESSCLUSTER X 3.1 or later	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)				
					2.16	-	9.1.9.25		EMPD V2.0L19 or later Note 6	WSFC LifeKeeper	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)				
		Hyper-V/ Standard/Datacenter	Direct/ via switch	PCI-Express	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201 S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202	See Instruction for use	See Instruction for use		See Instruction for use		MSDSM Note 6	OracleRAC 11gR2 or later	Yes	Supported (V20L13 or later)		Supported (V10L35 or later)	Supported (V10L40 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
											MSDSM Note 6	OracleRAC 11gR2 or later	Yes	Supported (V20L13 or later)		Supported (V10L35 or later)	Supported (V10L40 or later)	
											EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)		Supported (V10L56 or later)	Supported (V10L56 or later)	
		Hyper-V/ Standard/Datacenter	Direct/ via switch	PCI-Express	PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	See Instruction for use	See Instruction for use		See Instruction for use		MSDSM	WSFC	Yes	Supported (V20L16 or later)		Supported (V10L56 or later)	Supported (V10L56 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
											EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)		Supported (V10L56 or later)	Supported (V10L56 or later)	
		Windows 2008 R2/R2 SP1 Hyper-V, Standard/Enterprise/ Datacenter, HPC	Direct/ via switch	PCI-Express	S26361-F3306-L601 PG-FCD201 Note 1	3.03a11	2.82a3		2.20.006	EMPD V2.0L16 or later Note 6	WSFC	Yes	Supported (V20L10 or later)	Planned 2		Planned 2	- ServerView (Systemwalker) Resource Coordinator VE environment is not supported.	
	3.03a11					2.82a4	2.20.006	EMPD V2.0L16 or later Note 6	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	- ServerView (Systemwalker) Resource Coordinator VE environment is not supported.				
	3.03a11					2.82a3	2.20.006	EMPD V2.0L18 or later Note 6	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)					
	3.03a11					2.82a4	2.20.006	MSDSM Note 6	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)					
	Windows 2008 R2 Hyper-V, Standard/Enterprise/ Datacenter, HPC	via switch	PCI-Express	MC-FC82E PG-FC202/PY-FC202 S26361-F3874-L1 Note 1	3.03a11 3.11a5	1.11a5	2.20.006	EMPD V2.0L16 or later Note 6	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2					
					3.03a11 3.11a5	1.11a5	2.20.006	EMPD V2.0L18 or later Note 6	WSFC	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)					
	Windows 2008 R2/R2 SP1 Hyper-V, Standard/Enterprise/ Datacenter, HPC	via switch	PCI-Express	MC-FC82E PG-FC202/PY-FC202 S26361-F3874-L1 Note 1	3.11a5	2.00a4	2.41.003 or later	MSDSM Note 6	WSFC	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)					
								EMPD V2.0L18 or later Note 6	WSFC EXPRESSCLUSTER X 3.1 or later	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)					
								MSDSM Note 6	WSFC EXPRESSCLUSTER X 3.1 or later	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)					
					EMPD V2.0L19 or later Note 6	WSFC LifeKeeper	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)								
						MSDSM Note 6	WSFC LifeKeeper	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)		Supported (V10L40 or later)						
						EMPD V2.0L19 or later Note 6	OracleRAC 11gR2 or later	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)		Supported (V10L40 or later)						
MSDSM Note 6						OracleRAC 11gR2 or later	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)								

Note 1: For connection with ETERNUS storage, FC switch blade or FC Pass-Thru Blade is required.
 Note 6 : When using EMPD on Windows Server 2008 R2, please apply KB2522766. When using MSDSM on Windows Server 2008 R2, please apply KB2522766.

Windows Server 2008 R2 x64 Editions (64-bit version)	OS	Connected Type	Bus	HBA				Switch	Path Failover	System Configuration WSFC	SAN boot	Model			Instruction for use							
				model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA								
Other Companies' Servers	Windows 2008 R2/R2 SP1 Hyper-V, Standard/Enterprise/ Datacenter, HPC	Direct/ via switch	PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150	2.02a2	2.82a3	2.20.006	Refer to "Switch pages" for supported FC switches.	EMPD V2.0L16 or later Note 6	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2								
		Direct/ via switch			2.02a2	2.82a4	2.30.016		EMPD V2.0L16 or later Note 6	-	Yes	Supported (V20L10 or later)	Planned 2	Planned 2								
		Direct/ via switch			2.02a2	2.82a4	2.30.016		MSDSM Note 6	-	Yes	Supported (V20L10 or later)	Planned 2	Planned 2								
		Direct/ via switch			2.12a6	2.00a4	2.40.005		EMPD V2.0L18 or later Note 6	WSFC	No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)								
		Direct/ via switch							MSDSM Note 6	WSFC	No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)								
		Direct/ via switch			2.12a6	2.82a4	2.41.003 or later		EMPD V2.0L18 or later Note 6	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)								
		Direct/ via switch							MSDSM Note 6	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)								
		Direct/ via switch			2.02a2	2.82a4	2.30.016		VxVM 5.1	VCS 5.1 Note 4	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	When using VxVM 5.1, the maximum number of LUNs is 128. For VxVM 5.1, download of driver for ETERNUS (Array Support Library) is not necessary. There is configuration limitation for the number of paths from one storage when creating cluster under Veritas environment. Please satisfy the following formula; The number of LUNs shared among cluster X the number of paths accessing that LUN from one node X the number of nodes < 1024 When one storage is used by multiple clusters, then the path number is the sum of all cluster's path.							
		Direct/ via switch									No	Planned 2	Planned 2	Planned 2								
		Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.11a5	2.20.006		EMPD V2.0L16 or later Note 6	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2								
					2.02a2	1.11a5	2.30.016		EMPD V2.0L16 or later Note 6	-	Yes	Supported (V20L10 or later)	Planned 2	Planned 2								
					2.02a2	1.11a5	2.30.016		MSDSM Note 6	-	Yes	Supported (V20L10 or later)	Planned 2	Planned 2								
					2.12a6	2.00a4	2.40.005		EMPD V2.0L18 or later Note 6	WSFC	No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)								
									MSDSM Note 6	WSFC	No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)								
					5.12a2	2.00a4	2.41.003		EMPD V2.0L18 or later Note 6	WSFC EXPRESSCLUSTER X 3.1 or later	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)								
									MSDSM Note 6	WSFC EXPRESSCLUSTER X 3.1 or later	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)								
					5.12a5	2.01a4	2.41.003 or later		EMPD V2.0L18 or later Note 6	WSFC EXPRESSCLUSTER X 3.1 or later	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)								
					5.12a2 or later	2.00a4 or later	2.50.007 or later		EMPD V2.0L19 or later Note 6	WSFC LifeKeeper	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)								
									MSDSM Note 6	WSFC LifeKeeper	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)								
					5.12a2 or later	2.00a4 or later	2.50.007 or later		EMPD V2.0L19 or later Note 6	OracleRAC 11gR2 or later	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)								
									MSDSM Note 6	OracleRAC 11gR2 or later	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)								
					2.02a2	1.11a5	2.30.016		VxVM 5.1	VCS 5.1 Note 4	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	When using VxVM 5.1, the maximum number of LUNs is 128. For VxVM 5.1, download of driver for ETERNUS (Array Support Library) is not necessary. There is configuration limitation for the number of paths from one storage when creating cluster under Veritas environment. Please satisfy the following formula; The number of LUNs shared among cluster X the number of paths accessing that LUN from one node X the number of nodes < 1024 When one storage is used by multiple clusters, then the path number is the sum of all cluster's path.							
											No	Planned 2	Planned 2	Planned 2								
	Hyper-V/ Standard/Datacenter	Direct/ via switch (see "Instruction for use")	PCI-Express	LPe16000B/LPe16002B/ LPe16000/LPe16002	-	1.1.43.3 or later	2.74.014.001 or later		EMPD V2.0L20 or later Note 6	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	- When using EMPD and connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.							
									MSDSM Note 6	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)								
		Direct/ via switch							EMPD V2.0L20 or later Note 6	OracleRAC 11gR2 or later	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)								
									MSDSM Note 6	OracleRAC 11gR2 or later	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)								
Hyper-V/ Standard/Datacenter	Direct/ via switch	PCI-Express	QLE2690/ QLE2692/ QLE2694	See instruction for use	See instruction for use	See instruction for use			EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and HBA vendor.							
	Direct/ via switch								MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)								
Hyper-V/ Standard/Datacenter	Direct/ via switch	PCI-Express	QLE2672/QLE2670 QLE2660/QLE2672	See instruction for use	See instruction for use	See instruction for use			EMPD V2.0L20 or later	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and HBA vendor.							
	Direct/ via switch								MSDSM	WSFC	Yes	Supported (V20L16 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)								

Note 4 : When configuring cluster under Veritas environment, the number of paths for one storage has an upper limit. Please use the formula below.
The number of LUNs shared among clusters x the number of path to these LUNs of one node x the number of nodes < 1024
If multiple clusters are configured with one storage, the left side of above formula is sum of each cluster's above value.
Note 6 : When using EMPD on Windows Server 2008 R2, please apply KB2522766. When using MSDSM on Windows Server 2008 R2, please apply KB2522766.

Windows Server 2008 R2 x64 Editions (64-bit version)	OS	Connected Type	Bus	HBA				Switch	Path Failover	System Configuration WSFC	SAN boot	Model			Instruction for use	
				model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA		
Other Companies' Servers	Windows 2008 R2 Hyper-V, Standard/Enterprise/ Datacenter, HPC	Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: Ak344A/AJ764A QMH2562/QMH2572 IBM: 42D050/Q42D0510	2.1	-	9.1.8.25 9.1.9.25	Refer to "Switch pages" for supported FC switches.	EMPD V2.0L16 or later Note 6	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	- When multiple LUNs are accessed simultaneously through one HBA path, and the sum of those accesses exceed the "Execution Throttle" value set in the HBA BIOS, then performance degradation will occur.	
		Direct/ via switch			2.1	-	9.1.8.25 9.1.9.25		MSDSM Note 6	-	Yes	Supported (V20L10 or later)	Planned 2	Planned 2		
	Windows 2008 R2 Hyper-V, Standard/Enterprise/ Datacenter, HPC	Direct/ via switch			2.16	-	9.1.8.25 9.1.9.25		EMPD V2.0L18 or later Note 6	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2		
		Direct/ via switch			2.16	-	9.1.8.25 9.1.9.25		MSDSM Note 6	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2		
	Windows 2008 R2/R2 SP1 Hyper-V, Standard/Enterprise/ Datacenter, HPC	Direct/ via switch			3.00	-	9.1.8.25 9.1.9.25		EMPD V2.0L17 or later Note 6	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2		
		Direct/ via switch			3.00	-	9.1.9.25		MSDSM Note 6	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2		
							EMPD V2.0L18 or later Note 6	WSFC	No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)				
		Direct/ via switch			3.00	-	9.1.9.25		MSDSM Note 6	WSFC	No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)		
							EMPD V2.0L18 or later Note 6	OracleRAC 11gR2 or later	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)				
		Direct/ via switch			2.1	-	9.1.8.25 9.1.9.25	MSDSM Note 6	OracleRAC 11gR2 or later	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)			
	Windows 2008 R2 Hyper-V, Standard/Enterprise/ Datacenter, HPC	Direct/ via switch	PCI-bus PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462	2.1	-	9.1.8.25 9.1.9.25	Refer to "Switch pages" for supported FC switches.	VxVM 5.1	VCS 5.1 Note 4	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	When using VxVM 5.1, the maximum number of LUNs is 128. For VxVM 5.1, download of driver for ETERNUS (Array Support Library) is not necessary. There is configuration limitation for the number of paths from one storage when creating cluster under Veritas environment. Please satisfy the following formula: The number of LUNs shared among cluster X the number of paths accessing that LUN from one node X the number of nodes < 1024 When one storage is used by multiple clusters, then the path number is the sum of all cluster's path.	
	Windows 2008 R2/R2 SP1 Hyper-V, Standard/Enterprise/ Datacenter	Direct/ via switch			2.1	-	9.1.8.25 or later		EMPD V2.0L16 or later Note 6	-	Yes	Supported (V20L10 or later)	Planned 2	Planned 2		
		Direct/ via switch			2.1	-	9.1.8.25 9.1.9.25									
	Windows 2008 R2 Hyper-V, Standard/Enterprise/ Datacenter, HPC	Direct/ via switch			3.00	-	9.1.8.25 9.1.9.25		EMPD V2.0L17 or later Note 6	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2		
		Direct/ via switch			3.00	-	9.1.8.25 9.1.9.25		MSDSM Note 6	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2		
		Direct/ via switch			3.00	-	9.1.9.25		EMPD V2.0L18 or later Note 6	WSFC	No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)		
							MSDSM Note 6	WSFC	No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)				
	Windows 2008 R2 Hyper-V, Standard/Enterprise/ Datacenter, HPC	Direct/ via switch			2.1	-	9.1.8.25 9.1.9.25	VxVM 5.1	VCS 5.1 Note 4	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	When using VxVM 5.1, the maximum number of LUNs is 128. For VxVM 5.1, download of driver for ETERNUS (Array Support Library) is not necessary. There is configuration limitation for the number of paths from one storage when creating cluster under Veritas environment. Please satisfy the following formula: The number of LUNs shared among cluster X the number of paths accessing that LUN from one node X the number of nodes < 1024 When one storage is used by multiple clusters, then the path number is the sum of all cluster's path.		
	Windows 2008 R2/R2 SP1 Hyper-V, Standard/Enterprise/ Datacenter	Direct/ via switch			2.1	-	9.1.8.25 or later			No	Planned 2	Supported (V10L 3.0 or later)	Supported (V10L40 or later)			
	Windows 2008 R2/R2 SP1 Hyper-V, Standard/Enterprise/ Datacenter	via switch	PCI-Express	Brocade 415/425	2.3.0.0	2.3.0.0	2.3.0.0	MSDSM Note 6	WSFC	No	Planned 2	Planned 2	Supported (V10L40 or later)			
		via switch	PCI-Express	Brocade 815/825	2.3.0.0	2.3.0.0	2.3.0.0	EMPD V2.0L18 or later Note 6	WSFC	No	Planned 2	Planned 2	Supported (V10L40 or later)			
								MSDSM Note 6	WSFC	No	Planned 2	Planned 2	Supported (V10L40 or later)			

Note 1: For connection with ETERNUS storage, FC switch blade or FC Pass-Thru Blade is required.
Note 4 : When configuring cluster under Veritas environment, the number of paths for one storage has an upper limit. Please use the formula below.
The number of LUNs shared among clusters x the number of path to these LUNs of one node x the number of nodes < 1024
If multiple clusters are configured with one storage, the left side of above formula is sum of each cluster's above value.
Note 6 : When using EMPD on Windows Server 2008 R2, please apply KB2522766. When using MSDSM on Windows Server 2008 R2, please apply KB2522766.

Windows Server 2008 R2 for Itanium-based systems	OS	Connected Type	Bus	HBA				Switch	Path Failover	System Configuration WSFC	SAN boot	Model			Instruction for use
				model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
Other Companies' Servers	Windows Server 2008 R2 for Itanium-Based Systems	Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	4.00a1	1.11a5	2.30.016	Refer to "Switch pages" for supported FC switches.	EMPD V2.0L16 or later	-	No	Supported (V20L10 or later)	Planned 2	Planned 2	
		Direct/ via switch			4.00a1	1.11a5	2.30.016		MSDSM	-	No	Supported (V20L10 or later)	Planned 2	Planned 2	
		Direct/ via switch			2.12a6	2.00a4	2.40.005		EMPD V2.0L18 or later	WSFC	No	Planned 2	Supported (V10L16 or later)	Supported (V10L40 or later)	
	Windows Server 2008 R2/R2 SP1 for Itanium-Based Systems	Direct/ via switch	PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/LPe1150	2.12a6	2.00a4	2.40.005		EMPD V2.0L18 or later	WSFC	No	Planned 2	Supported (V10L16 or later)	Supported (V10L40 or later)	

Windows Server 2008 (32-bit version)	OS	Connected Type	Bus	HBA				Switch	Path Failover	System Configuration WSFC	SAN boot	Model			Instruction for use			
				model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA				
PRIMEQUEST 1000 series (PQ1400S/1400E/1400L/ 1800E/1800L only)	Hyper-V, Standard/Enterprise/Datacenter, SP2	Direct/ via switch	PCI-Express	MC-0JFC11/MC-0JFC1L /MC-0JFC21/MC-0JFC2L	4.00A1	1.11A5	V2.20.006	Refer to "Switch pages" for supported FC switches.	EMPD V2.0L16 or later	WSFC	Yes	Supported (V20L10 or later)	N.A.	Planned s				
					4.00A1	1.11A5	V2.41.003		EMPD V2.0L18 or later	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Planned s				
	Hyper-V, Standard/Enterprise/ Datacenter, SP2				4.00A1	1.11A5	V2.20.006		EMPD V2.0L18 or later	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Planned s				
					4.00a1	1.11A5	2.41.003		EMPD V2.0L18 or later	WSFC	Yes	Supported (V10L40 or later)	Supported (V10L12 or later)	Planned s				
PRIMERGY	Hyper-V, Standard/Enterprise, without SP or SP2	Direct/ via switch	PCI-Express	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	2.01a2 or later	2.72a2 or later	2.01a4 or later	Refer to "Switch pages" for supported FC switches.	EMPD V2.0L15 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.			
					2.02a2 or later	2.82a3 or later	2.20.006 or later		EMPD V2.0L15 or later Note 3		Yes	Supported (V20L10 or later)	Planned 2	Planned 2	- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported. - ServerView (Systemwalker) Resource Coordinator VE environment is not supported.			
					2.02a2 or later	2.80a4 or later	2.20.006 or later		EMPD V2.0L15 or later Note 3		Yes	Supported (V20L10 or later)	Planned 2	Planned 2	- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.			
					2.01a2 or later	2.72a2 or later	2.01a4 or later		EMPD V2.0L18 or later Note 3		No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.			
									MSDSM Note 3		No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)				
					2.02a2 or later	2.82a3 or later	2.20.006 or later		EMPD V2.0L18 or later Note 3		Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported. - ServerView (Systemwalker) Resource Coordinator VE environment is not supported.			
									MSDSM Note 3		Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)				
					2.02a2 or later	2.80a4 or later	2.20.006 or later		EMPD V2.0L18 or later Note 3		Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.			
									MSDSM Note 3		Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)				
					2.12a6 or later	2.82a4 or later	2.41.003 or later		EMPD V2.0L18 or later Note 3		Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)	- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.			
									MSDSM Note 3		Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)				
		Direct/ via switch	PCI-Express	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L	2.02a2 or later	1.10a5 or later	2.01a4 or later		EMPD V2.0L15 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.			
					2.02a2 or later	1.11a5 or later	2.20.006 or later		EMPD V2.0L15 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2				
					2.02a2 or later	1.10a5 or later	2.01a4 or later		EMPD V2.0L18 or later Note 3	WSFC	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)				
									MSDSM Note 3	WSFC	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)				
					2.02a2 or later	1.11a5 or later	2.20.006 or later		EMPD V2.0L18 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)				
									MSDSM Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)				
					5.12a2 or later	2.00a4 or later	2.41.003 or later		EMPD V2.0L18 or later Note 3	WSFC EXPRESSCLUSTER X 3.1 or later	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)				
									MSDSM Note 3	WSFC EXPRESSCLUSTER X 3.1 or later	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)				
					5.12a2 or later	2.00a4 or later	2.50.007 or later		EMPD V2.0L19 or later Note 3	WSFC LifeKeeper	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)				
									MSDSM Note 3	WSFC LifeKeeper	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)				
	Hyper-V, Standard/Enterprise, SP2	Direct/ via switch	PCI-Express	PY-FC201/PY-FC201L PYBFC201/PYBFC201L PY-FC202/PY-FC202L PYBFC202/PYBFC202L S26361-F3961-L1/L201/E1/E201 S26361-F3961-L2/L202/E2/E202	6.30A1 or later	2.01A10 or later	2.74.009.001 or later		EMPD V2.0L19 or later Note 3	WSFC LifeKeeper CLUSTERPRO3.1 or later	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.			
									MSDSM Note 3	WSFC LifeKeeper CLUSTERPRO3.1 or later	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)				
	Hyper-V, Standard/Enterprise, SP2	Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC206/PG-FC206L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16 or later	-	9.1.9.25 or later		EMPD V2.0L18 or later Note 3	WSFC	Yes	-	Supported (V10L25 or later)	Supported (V10L40 or later)		- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported. - When multiple LUNs are accessed simultaneously through one HBA path, and the sum of those accesses exceed the "Execution Throttle" value set in the HBA BIOS, then performance degradation will occur.		
					2.16 or later	-	9.1.9.25 or later		MSDSM Note 3	WSFC	Yes	-	Supported (V10L25 or later)	Supported (V10L40 or later)				
					2.16 or later	-	9.1.8.25 9.1.9.25 or later		EMPD V2.0L18 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	-	-				
					2.16 or later	-	9.1.8.25 9.1.9.25 or later		MSDSM Note 3	WSFC	Yes	Supported (V20L10 or later)	-	-				
					2.16 or later	-	9.1.8.25 9.1.9.25 or later		EMPD V2.0L18 or later Note 3	EXPRESSCLUSTER X 3.1 or later	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)				
									MSDSM Note 3	EXPRESSCLUSTER X 3.1 or later	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)				
					2.16 or later	-	9.1.8.25 9.1.9.25 or later		EMPD V2.0L19 or later Note 3	LifeKeeper	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)				
									MSDSM Note 3	LifeKeeper	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)				

Note 1: For connection with ETERNUS storage, FC switch blade or FC Pass-Thru Blade is required.
Note 3: When using EMPD on Windows Server 2008 without SP, please apply KB952779 & KB2522766. When using MSDSM on Windows Server 2008 without SP, please apply KB967752, KB952779 & KB2522766.

Windows Server 2008 (32-bit version)	OS	Connected Type	Bus	HBA				Switch	Path Failover	System Configuration WSFC	SAN boot	Model			Instruction for use				
				model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA					
PRIMERGY	Hyper-V, Standard/Enterprise, without SP or SP2	Direct/ via switch	PCI-bus	S26361-F3023-L1 PG-FCD101/PG-FCD102 Note 1	1.47 or later	-	9.1.4.1.5 or later (Storport Miniport driver)	Refer to "Switch pages" for supported FC switches.	EMPD V2.0L15 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	N.A.	- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.				
									EMPD V2.0L18 or later Note 3	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.					
									MSDSM Note 3	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.					
		Direct/ via switch	PCI-bus	S26361-F3306-L601 PG-FCD201 Note 1	3.03a2 or later	2.72a2 or later	2.01a4 or later		EMPD V2.0L15 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.				
					3.03a9 or later	2.72a2 or later	2.10a7 or later		EMPD V2.0L15 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2					
					3.03a11 or later	2.82a3 or later	2.20.006 or later		EMPD V2.0L15 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported. - ServerView (Systemwalker) Resource Coordinator VE environment is not supported.				
					3.03a11 or later	2.82a4 or later	2.20.006 or later		EMPD V2.0L18 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.				
					3.03a2 or later	2.72a2 or later	2.01a4 or later		EMPD V2.0L18 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.				
					3.03a9 or later	2.72a2 or later	2.10a7 or later		MSDSM Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)					
					3.03a11 or later	2.82a3 or later	2.20.006 or later		EMPD V2.0L18 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)					
									MSDSM Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)					
					3.03a11 or later	2.82a3 or later	2.20.006 or later		EMPD V2.0L18 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported. - ServerView (Systemwalker) Resource Coordinator VE environment is not supported.				
									MSDSM Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)					
					via switch	PCI-Express	MC-FC82E PG-FCD202/PV-FCD02 S26361-F3074-L1 Note 1		3.03a11	1.11a5	2.10a7	EMPD V2.0L15 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.	
									3.03a11 3.11a5	1.11a5	2.20.006	EMPD V2.0L15 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2		
									3.03a11	1.11a5	2.10a7		EMPD V2.0L18 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)		Supported (V10L40 or later)
													MSDSM Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)		Supported (V10L40 or later)
									3.03a11 3.11a5	1.11a5	2.20.006		EMPD V2.0L18 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)		Supported (V10L40 or later)
		MSDSM Note 3	WSFC	Yes									Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)				
		3.11a5	1.11a5	2.41.003					EMPD V2.0L18 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)					
									MSDSM Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)					
		5.12a2 or later	2.00a4 or later	2.50.007 or later					EMPD V2.0L19 or later Note 3	WSFC LifeKeeper	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)					
					MSDSM Note 3	WSFC LifeKeeper	Yes		Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)								

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 Note 3: When using EMPD on Windows Server 2008 without SP, please apply KB952779 & KB2522766. When using MSDSM on Windows Server 2008 without SP, please apply KB967752, KB952779 & KB2522766.

Windows Server 2008 (32-bit version)	OS	Connected Type	Bus	HBA			Switch	Path Failover	System Configuration WSFC	SAN boot	Model			Instruction for use			
				model name	BIOS version/ EFI driver version	Firmware version					Driver version	DX60 S2	DX80 S2 DX90 S2		DX80 S2 DX90 S2 16Gbps CA		
Other Companies' Servers	Hyper-V, Standard/Enterprise/ Datacenter, without SP	Direct/ via switch	PCI-bus/ PCI-Express	LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP1000ExDC	1.70a3	1.91a1	2.01a4 (Storport Miniport driver)	Refer to "Switch pages" for supported FC switches.	EMPD V2.0L15 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	N.A.	On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.		
		Direct/ via switch			3.10a3	1.92a1	7.2.20.006 (Storport Miniport driver)		MSDSM Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	N.A.			
		Direct/ via switch	PCI-bus	QLA2340/QLA2342/ QLA2344/ QLE2360/QLE2362	1.54	-	9.1.7.16		EMPD V2.0L15 or later Note 3	WSFC	No	Supported (V20L10 or later)	Planned 2	Planned 2	On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.		
					1.54	-	9.1.7.18		MSDSM Note 3	WSFC	No	Supported (V20L10 or later)	Planned 2	Planned 2			
		Direct/ via switch			2.01a2	2.72a2	2.01a4		EMPD V2.0L15 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2			
									MSDSM Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2			
		Direct/ via switch			2.02a2	2.82a3	2.20.006		EMPD V2.0L15 or later Note 3	WSFC	No	Supported (V20L10 or later)	Planned 2	Planned 2			
									MSDSM Note 3	-	No	Supported (V20L10 or later)	Planned 2	Planned 2			
		Hyper-V, Standard/Enterprise/ Datacenter, without SP or SP2	Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150	2.12a6	2.00a4		2.40.005		EMPD V2.0L18 or later Note 3	WSFC	No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)	On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.
			MSDSM Note 3								WSFC	No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)		
		Hyper-V, Standard/Enterprise/ Datacenter, SP2	Direct/ via switch			2.12a6	2.82a4		2.41.003		EMPD V2.0L18 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)	
			MSDSM Note 3								WSFC	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)		
	Hyper-V, Standard/Enterprise/ Datacenter, without SP	Direct/ via switch			2.02a2	1.10a5	2.01a4 (Storport Miniport driver)		EMPD V2.0L15 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2			
									MSDSM Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2			
	Hyper-V, Standard/Enterprise/ Datacenter, without SP or SP2	Direct/ via switch			2.02a2	1.11a5	2.20.006		EMPD V2.0L15 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2			
									EMPD V2.0L18 or later Note 3	WSFC	No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)			
	Hyper-V, Standard/Enterprise/ Datacenter, SP2	Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	5.12a2	2.00a4	2.41.003		EMPD V2.0L18 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)	On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.		
		MSDSM Note 3							WSFC	EXPRESSCLUSTER X 3.1 or later	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)			
		Direct/ via switch							EMPD V2.0L19 or later Note 3	WSFC LifeKeeper	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)			
	Hyper-V, Standard/Enterprise/ Datacenter, without SP	Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462	2.02	-	9.1.7.18 (Storport Miniport driver)		EMPD V2.0L15 or later Note 3	WSFC	No	Supported (V20L10 or later)	Planned 2	Planned 2	On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.		
					3.00	-	9.1.9.25		MSDSM Note 3	WSFC	No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)			
	Hyper-V, Standard/Enterprise/ Datacenter, without SP	Direct/ via switch			2.02	-	9.1.7.18 (Storport Miniport driver)		EMPD V2.0L15 or later Note 3	WSFC	No	Supported (V20L10 or later)	Planned 2	Planned 2			
									MSDSM Note 3	WSFC	No	Supported (V20L10 or later)	Planned 2	Planned 2			
	Hyper-V, Standard/Enterprise/ Datacenter, SP2	Direct/ via switch			2.16	-	9.1.8.25 9.1.9.25		EMPD V2.0L18 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.		
									MSDSM Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2			
	Hyper-V, Standard/Enterprise/ Datacenter, without SP or SP2	Direct/ via switch	PCI-Express	HP: Ak344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	3.00	-	9.1.9.25		EMPD V2.0L18 or later Note 3	WSFC EXPRESSCLUSTER X 3.1 or later	No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)	- When multiple LUNs are accessed simultaneously through one HBA path, and the sum of those accesses exceed the "Execution Throttle" value set in the HBA BIOS, then performance degradation will occur.		
		MSDSM Note 3							WSFC EXPRESSCLUSTER X 3.1 or later	No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)				
		EMPD V2.0L19 or later Note 3							LifeKeeper	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)				
Direct/ via switch				2.16 or later	-	9.1.9.25 or later		MSDSM Note 3	LifeKeeper	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)				
								EMPD V2.0L18 or later Note 3	WSFC	No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)				
via switch		PCI-Express	Brocade 415/425	2.3.0.0	2.3.0.0	2.3.0.0		MSDSM Note 3	WSFC	No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)	On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.			
								EMPD V2.0L18 or later Note 3	WSFC	No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)				
via switch		PCI-Express	Brocade 815/825	2.3.0.3	2.3.0.3	2.3.0.2		MSDSM Note 3	WSFC	No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)				
	EMPD V2.0L18 or later Note 3							WSFC	No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)					

Note 3: When using EMPD on Windows Server 2008 without SP, please apply KB952779 & KB2522766. When using MSDSM on Windows Server 2008 without SP, please apply KB967752, KB952779 & KB2522766.

Windows Server 2008 x64 Editions (64-bit version)	OS	Connected Type	Bus	HBA				Switch	Path Failover	System Configuration WSFC	SAN boot	Model			Instruction for use	
				model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA		
PRIMEQUEST 1000 series (PQ1400S/1400E/1400L/ 1800E/1800L only)	Hyper-V, Standard/Enterprise/ Datacenter, SP2	Direct/ via switch	PCI-Express	MC-0JFC11/MC-0JFC1L /MC-0JFC21/MC-0JFC2L	4.00A1	1.11A5	V2.20.006	Refer to "Switch pages" for supported FC switches.	EMPD V2.0L16 or later	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2		
					4.00A1	1.11A5	V2.41.003		EMPD V2.0L18 or later	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Planned 2		
					4.00A1	1.11A5	V2.20.006		EMPD V2.0L18 or later	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Planned 2		
PRIMEQUEST 1000 series (PQ1400S2/1400E2/ 1400L2/ 1800E2/1800L2 only)	Hyper-V, Standard/Enterprise/ Datacenter, SP2	Direct/ via switch	PCI-Express	S26361-F306-L1/L201/ PG-FC202/PG-FC202L	4.00a1	1.11A5	2.41.003		EMPD V2.0L18 or later	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Planned 2		
					2.01a2	2.72a2	2.01a4		EMPD V2.0L15 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2		- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.
					2.02a2	2.82a3	2.20.006		EMPD V2.0L15 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2		- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.
	Hyper-V, Standard/Enterprise/ Datacenter, without SP or SP2, HPC	Direct/ via switch	PCI-Express	S26361-F306-L1/L201/ PG-FC202/PG-FC202L	2.02a2	2.80a4	2.20.006		EMPD V2.0L18 or later Note 3	WSFC	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.	
					2.01a2	2.72a2	2.01a4		MSDSM Note 3	WSFC	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)		
					2.02a2	2.82a3	2.20.006		EMPD V2.0L18 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.	
	Hyper-V, Standard/Enterprise/ Datacenter, without SP or SP2, HPC	Direct/ via switch	PCI-Express	S26361-F306-L1/L201/ PG-FC202/PG-FC202L	2.02a2	2.80a4	2.20.006		MSDSM Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.	
					2.02a2	2.82a3	2.20.006		EMPD V2.0L18 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)		
					2.02a2	2.80a4	2.20.006		MSDSM Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.	
	Hyper-V, Standard/Enterprise/ Datacenter, without SP or SP2, HPC	Direct/ via switch	PCI-Express	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L	2.12a6	2.82a4	2.41.003		EMPD V2.0L18 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)	- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.	
					2.02a2	1.10a5	2.01a4/2.10a7 (Storport Miniport driver)		MSDSM Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)		
					2.02a2	1.11a5	2.20.006		EMPD V2.0L15 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2		
	Hyper-V, Standard/Enterprise, SP2	Direct/ via switch	PCI-Express	PY-FC201/PY-FC201L PYBFC201/PYBFC201L PY-FC202/PY-FC202L PYBFC202/PYBFC202L S26361-F3961-L1/L201/E1/E201 S26361-F3961-L2/L202/E2/E202	2.02a2	1.10a5	2.01a4/2.10a7 (Storport Miniport driver)		EMPD V2.0L18 or later Note 3	WSFC	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.	
					2.02a2	1.11a5	2.20.006		MSDSM Note 3	WSFC	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)		
					5.12a2	2.00a4	2.41.003		EMPD V2.0L18 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)		
	Hyper-V, Standard/Enterprise, without SP or SP2, HPC	Direct/ via switch	PCI-Express	PY-FC201/PY-FC201L PYBFC201/PYBFC201L PY-FC202/PY-FC202L PYBFC202/PYBFC202L S26361-F3961-L1/L201/E1/E201 S26361-F3961-L2/L202/E2/E202	5.12a2 or later	2.00a4 or later	2.50.007 or later		EMPD V2.0L18 or later Note 3	WSFC EXPRESSCLUSTER X 3.1 or later	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)		
					MSDSM Note 3	WSFC EXPRESSCLUSTER X 3.1 or later	Yes		Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)					
					EMPD V2.0L19 or later Note 3	WSFC LifeKeeper	Yes		Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)					
	Hyper-V, Standard/Enterprise/ Datacenter, SP2, HPC	Direct/ via switch	PCI-Express	PY-FC201/PY-FC201L PYBFC201/PYBFC201L PY-FC202/PY-FC202L PYBFC202/PYBFC202L S26361-F3961-L1/L201/E1/E201 S26361-F3961-L2/L202/E2/E202	6.30A1 or later	2.01A10 or later	2.74.009.001 or later		EMPD V2.0L19 or later Note 3	WSFC LifeKeeper CLUSTERPRO3.1 or later	可能	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)		
					MSDSM Note 3	WSFC LifeKeeper CLUSTERPRO3.1 or later	可能		Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)					
					EMPD V2.0L18 or later Note 3	WSFC	Yes		-	Supported (V10L25 or later)	Supported (V10L40 or later)					
	Hyper-V, Standard/Enterprise/ Datacenter, SP2, HPC	Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16 or later	-	9.1.9.25 or later		MSDSM Note 3	WSFC	Yes	-	Supported (V10L25 or later)	Supported (V10L40 or later)	- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.	
					2.16 or later	-	9.1.9.25 or later		EMPD V2.0L18 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	-	-		
					2.16 or later	-	9.1.8.25 9.1.9.25 or later		MSDSM Note 3	WSFC	Yes	Supported (V20L10 or later)	-	-		
	Hyper-V, Standard/Enterprise/ Datacenter, SP2, HPC	Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16	-	9.1.8.25 9.1.9.25		EMPD V2.0L18 or later Note 3	WSFC EXPRESSCLUSTER X 3.1 or later	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	- When multiple LUNs are accessed simultaneously through one HBA path, and the sum of those accesses exceed the "Execution Throttle" value set in the HBA BIOS, then performance degradation will occur.	
					2.16 or later	-	9.1.8.25 9.1.9.25 or later		MSDSM Note 3	WSFC	Yes	Supported (V20L10 or later)	-	-		
					2.16 or later	-	9.1.8.25 9.1.9.25		EMPD V2.0L19 or later Note 3	LifeKeeper	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)		
	Hyper-V, Standard/Enterprise, without SP or SP2, HPC	Direct/ via switch	PCI-bus	S26361-F3023-L1 PG-FCD101 PG-FCD102 Note 1	1.47	-	9.1.4.1.5 (Storport Miniport driver)		EMPD V2.0L15 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	N.A.	- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.	
					MSDSM Note 3	WSFC	Yes		Supported (V20L10 or later)	Planned 2	N.A.					
					EMPD V2.0L18 or later Note 3	-	Yes		Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.					
	Hyper-V, Standard/Enterprise, without SP or SP2, HPC	Direct/ via switch	PCI-bus	S26361-F3023-L1 PG-FCD101 PG-FCD102 Note 1	1.47	-	9.1.4.1.5 (Storport Miniport driver)		MSDSM Note 3	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.		
					MSDSM Note 3	-	Yes		Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.					
					EMPD V2.0L18 or later Note 3	-	Yes		Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.					

Note 1: For connection with ETERNUS storage, FC switch blade or FC Pass-Thru Blade is required.
Note 3: When using EMPD on Windows Server 2008 without SP, please apply KB952779 & KB2522776. When using MSDSM on Windows Server 2008 without SP, please apply KB967752, KB952779 & KB2522766.

Windows Server 2008 x64 Editions (64-bit version)	OS	Connected Type	Bus	HBA				Switch	Path Failover	System Configuration WSFC	SAN boot	Model			Instruction for use				
				model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA					
PRIMERGY	Hyper-V, Standard/Enterprise, without SP or SP2, HPC	Direct/ via switch	PCI-Express	S26361-F3306-L601 PG-FCD201 Note 1	3.03a2	2.72a2	2.01a4	Refer to "Switch pages" for supported FC switches.	EMPD V2.0L15 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.				
					3.03a9	2.72a2	2.10a7		EMPD V2.0L15 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.				
					3.03a11	2.82a3	2.20.006		EMPD V2.0L15 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2		- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.			
					3.03a11	2.82a4	2.20.006		EMPD V2.0L15 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.				
		Direct/ via switch			3.03a2	2.72a2	2.01a4		EMPD V2.0L18 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.				
					3.03a9	2.72a2	2.10a7		MSDSM Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)					
									EMPD V2.0L18 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)					
					3.03a11	2.82a3	2.20.006		MSDSM Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)		- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.			
									EMPD V2.0L18 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)					
					3.03a11	2.82a4	2.20.006		MSDSM Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)		On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.			
									EMPD V2.0L18 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)					
	Hyper-V, Standard/Enterprise, without SP or SP2, HPC	via switch		MC-FC82E PG-FCD202/PY-FCD02 Note 1	3.03a11	1.11a5	2.10a7		EMPD V2.0L15 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	- On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.				
					3.03a11 3.11a5	1.11a5	2.20.006		EMPD V2.0L15 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2					
					3.03a11	1.11a5	2.10a7		EMPD V2.0L18 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)					
					3.03a11 3.11a5	1.11a5	2.20.006		MSDSM Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)					
									EMPD V2.0L18 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)					
					3.11a5	1.11a5	2.41.003		EMPD V2.0L18 or later Note 3	WSFC EXPRESSCLUSTER X 3.1 or later	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)					
									MSDSM Note 3	WSFC EXPRESSCLUSTER X 3.1 or later	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)					
					5.12a2 or later	2.00a4 or later	2.50.007 or later		EMPD V2.0L19 or later Note 3	WSFC LifeKeeper	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)					
									MSDSM Note 3	WSFC LifeKeeper	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)					
									EMPD V2.0L15 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	N.A.	On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.				
									MSDSM Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	N.A.					
Other Companies' Servers	Hyper-V, Standard/Enterprise/ Datacenter, without SP	Direct/ via switch	PCI-bus/ PCI-Express	LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	1.70a3	1.91a1	2.01a4 (Storport Miniport driver)	Refer to "Switch pages" for supported FC switches.	EMPD V2.0L15 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	N.A.	On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.				
		Direct/ via switch	PCI-bus		3.10a3	1.92a1	7.2.20.006 (Storport Miniport driver)		MSDSM Note 3	-	No	Supported (V20L10 or later)	Planned 2	N.A.					
		Direct/ via switch	PCI-bus	QLA2340/QLA2342/ QLA2344/ QLE2360/QLE2362	1.54	-	9.1.7.16		EMPD V2.0L15 or later Note 3	WSFC	No	Supported (V20L10 or later)	Planned 2	N.A.	On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.				
		Direct/ via switch			LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150	2.01a2	2.72a2 (Storport Miniport driver)		MSDSM Note 3	WSFC	No	Supported (V20L10 or later)	Planned 2	Planned 2					
		Direct/ via switch	PCI-bus/ PCI-Express			2.02a2	2.82a3		MSDSM Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.				
		Direct/ via switch				2.12a6	2.00a4		EMPD V2.0L18 or later Note 3	WSFC	No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)					
		Hyper-V, Standard/Enterprise/ Datacenter, SP2	Direct/ via switch		PCI-bus/ PCI-Express		LPe12000/LPe12002/ LPe1250		2.12a6	2.82a4	MSDSM Note 3	WSFC	No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)	On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.		
			Direct/ via switch						2.02a2	1.10a5 (Storport Miniport driver)	EMPD V2.0L15 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2			
	Hyper-V, Standard/Enterprise/ Datacenter, without SP or SP2	Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.11a5	2.20.006		EMPD V2.0L15 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.				
		Direct/ via switch			2.12a6	2.00a4	MSDSM Note 3		WSFC	No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)						
		Direct/ via switch			5.12a2 or later	2.00a4 or later	EMPD V2.0L18 or later Note 3		WSFC LifeKeeper	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)						
		Direct/ via switch			5.12a2	2.00a4			MSDSM Note 3	WSFC LifeKeeper	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)					
		Direct/ via switch							EMPD V2.0L18 or later Note 3	WSFC EXPRESSCLUSTER X 3.1 or later	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)					
		Direct/ via switch							MSDSM Note 3	WSFC EXPRESSCLUSTER X 3.1 or later	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)					
		Direct/ via switch							EMPD V2.0L15 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2					
		Direct/ via switch							MSDSM Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2					
		Direct/ via switch							EMPD V2.0L15 or later Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2					
		Direct/ via switch							MSDSM Note 3	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Planned 2					

Note 1: For connection with ETERNUS storage, FC switch blade or FC Pass-Thru Blade is required.
 Note 3: When using EMPD on Windows Server 2008 without SP, please apply KB952779 & KB2522766. When using MSDSM on Windows Server 2008 without SP, please apply KB967752, KB952779 & KB2522766.

Windows Server 2008 x64 Editions (64-bit version)	OS	Connected Type	Bus	HBA				Switch	Path Failover	System Configuration WSFC	SAN boot	Model			Instruction for use
				model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
Other Companies' Servers	Hyper-V, Standard/Enterprise/ Datacenter, without SP	Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462	2.02	-	9.1.7.18 (Storport Minport driver)	Refer to "Switch pages" for supported FC switches.	EMPD V2.0L15 or later Note 3	WSFC	No	Supported (V20L10 or later)	Planned 2	Planned 2	On Hyper-V configuration, WSFC cluster of Hyper-V hosts is supported. Cluster of Hyper-V guests using shared disk via FC connection is not supported.
	Hyper-V, Standard/Enterprise/ Datacenter, without SP or SP2	Direct/ via switch			3.00	-	9.1.9.25		MSDSM Note 3	WSFC	No	Supported (V20L10 or later)	Planned 2	Planned 2	
	Hyper-V, Standard/Enterprise/ Datacenter, without SP	Direct/ via switch	QLE2560/QLE2562 HP: AK344AA/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.02	-	9.1.7.18 (Storport Minport driver)	EMPD V2.0L15 or later Note 3		WSFC	No	Supported (V20L10 or later)	Planned 2	Planned 2		
	Hyper-V, Standard/Enterprise/ Datacenter, SP2			2.16	-	9.1.8.25 9.1.9.25	MSDSM Note 3		WSFC	No	Supported (V20L10 or later)	Planned 2	Planned 2		
	Hyper-V, Standard/Enterprise/ Datacenter, without SP or SP2, HPC	Direct/ via switch		3.00	-	9.1.9.25	EMPD V2.0L18 or later Note 3		WSFC EXPRESSCLUSTER X 3.1 or later	No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)		
		Direct/ via switch		2.16 or later	-	9.1.9.25 or later			MSDSM Note 3	WSFC EXPRESSCLUSTER X 3.1 or later	No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)	
		Direct/ via switch							EMPD V2.0L19 or later Note 3	LifeKeeper	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	
	Hyper-V, Standard/Enterprise/ Datacenter, SP2, HPC	via switch	PCI-Express	Brocade 415/425	2.3.0.0	2.3.0.0	2.3.0.0		MSDSM Note 3	LifeKeeper	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	- When multiple LUNs are accessed simultaneously through one HBA path, and the sum of those accesses exceed the "Execution Throttle" value set in the HBA BIOS, then performance degradation will occur.
		via switch	PCI-Express	Brocade 815/825	2.3.0.0	2.3.0.0	2.3.0.0		MSDSM Note 3	WSFC	No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)	
		via switch	PCI-Express	Brocade 815/825	2.3.0.0	2.3.0.0	2.3.0.0		EMPD V2.0L18 or later Note 3	WSFC	No	Planned 2	Supported (V10L11 or later)	Supported (V10L40 or later)	
		via switch	PCI-bus	LP10000/LP10000D/C/ LP1050U/LP1050C/ LP1050E/ LP10000ExDC	2.02a2	2.82a4	7.2.30.16		MSDSM Note 3	WSFC	No	Planned 2	Supported (V20L10 or later)	Planned 2	
		via switch	PCI-bus/ PCI-Express	LP11000U/LP1100Z/ LP1150U/LPe11000/ LPe1100Z/LPe1150	2.02a2	2.82a4	7.2.30.16		VxVM 5.1	VCS 5.1 Note 4	No	Supported (V20L10 or later)	Planned 2	Planned 2	When using VxVM 5.1, the maximum number of LUNs is 128. For VxVM 5.1, download of driver for ETERNUS (Array Support Library) is not necessary. There is configuration limitation for the number of paths from one storage when creating cluster under Veritas environment. Please satisfy the following formula: The number of LUNs shared among cluster X the number of paths accessing that LUN from one node X the number of nodes < 1024 When one storage is used by multiple clusters, then the path number is the sum of all cluster's path.
		via switch	PCI-Express	LPe12000/LPe1200Z/ LPe1250	2.02a2	1.11a5	7.2.30.16				No	Supported (V20L10 or later)	Planned 2	Planned 2	
		via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/ QLE2462/QLE2464	2.1	-	9.1.8.25 9.1.9.25				No	Supported (V20L10 or later)	Planned 2	Planned 2	
		via switch	PCI-Express	QLE2560/QLE2562	2.1		9.1.8.25 or later				No	Planned 2	Supported (V10L30 or later)	Supported (V10L40 or later)	
		via switch	PCI-Express	HP: AK344AA/AJ764A QMH2562/QMH2572	2.1	-	9.1.8.25 9.1.9.25				No	Supported (V20L10 or later)	Planned 2	Planned 2	
		via switch		IBM: 42D0501/42D0510	2.1		9.1.8.25 or later				No	Planned 2	Supported (V10L30 or later)	Supported (V10L40 or later)	

Note 3 : When using EMPD on Windows Server 2008 without SP, please apply KB952779 & KB2522766. When using MSDSM on Windows Server 2008 without SP, please apply KB967752, KB952779 & KB2522766.

Note 4 : When configuring cluster under Veritas environment, the number of paths for one storage has an upper limit. Please use the formula below.

The number of LUNs shared among clusters x the number of path to these LUNs of one node x the number of nodes < 1024

If multiple clusters are configured with one storage, the left side of above formula is sum of each cluster's above value.

Windows Server 2008 for Itanium-based systems	OS	Connected Type	Bus	HBA				Switch	Path Failover	System Configuration WSFC	SAN boot	Model			Instruction for use
				model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMEQUEST 400/500/500A series	Windows Server 2008 for Itanium-Based Systems	Direct/ via switch	PCI-bus/ PCI-Express	MC-08FC11/71	4.00a1	1.92a1	2.10a7	Refer to "Switch pages" for supported FC switches.	EMPD V2.0L15 or later	WSFC	Yes (see Instruction for use)	Supported (V20L10 or later)	Supported (V10L11 or later)	Planned 2	KB952779 should be applied when using SAN boot function.
		Direct/ via switch	PCI-bus/ PCI-Express	MC-08FC31/41 MC-08FC51/61	4.00a1	2.80a4	2.10a7		MSDSM	WSFC		Planned 2	Supported (V10L11 or later)	Planned 2	
		Direct/ via switch	PCI-bus/ PCI-Express	MC-08FC61/91	4.00a1	1.11a5	2.10a7		EMPD V2.0L15 or later	WSFC		Supported (V20L10 or later)	Supported (V10L11 or later)	Planned 2	
		Direct/ via switch	PCI-bus/ PCI-Express	MC-08FC61/91	4.00a1	1.11a5	2.10a7		MSDSM	WSFC		Planned 2	Supported (V10L11 or later)	Planned 2	
		Direct/ via switch	PCI-bus/ PCI-Express	MC-08FC61/91	4.00a1	1.11a5	2.10a7		EMPD V2.0L15 or later	WSFC		Supported (V20L10 or later)	Supported (V10L11 or later)	Planned 2	
Other Companies' Servers	Windows Server 2008 for Itanium-Based Systems	Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	5.03a4	1.11a5	6-2.0L14 (Storport Minport driver)	Refer to "Switch pages" for supported FC switches.	EMPD V2.0L15 or later	WSFC	No	Supported (V20L10 or later)	Planned 2	Planned 2	
	Windows Server 2008 without SP/SP2 for Itanium-Based Systems	Direct/ via switch	PCI-Express		2.12a6	2.00a4	2.40.005		EMPD V2.0L18 or later	WSFC	No	Planned 2	Supported (V10L16 or later)	Supported (V10L40 or later)	
		Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/LPe1150	2.12a6	2.00a4	2.40.005		EMPD V2.0L18 or later	WSFC	No	Planned 2	Supported (V10L16 or later)	Supported (V10L40 or later)	
		Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/LPe1150	2.12a6	2.00a4	2.40.005		EMPD V2.0L18 or later	WSFC	No	Planned 2	Supported (V10L16 or later)	Supported (V10L40 or later)	

Notes

- For each Operating System, Path Failover software, please apply necessary patches which are suggested by the product suppliers.
- For HBA's BIOS and driver, please download the listed version from the RIS (Remote Install Service) website.
Go to the website <https://global.fujitsu-ssw.ne.jp/ris/default.htm>, then choose "PRIMERGY HBA drivers for ETERNUS connection" at "Firmware Programs" on the left hand side of the frame.
- When enabling Jumbo Frame setting, please disable "Flow Control" of LAN switch.
- If multipath configuration is supported, then single path configuration is also supported. But multipath configuration may be mandatory because of cluster requirement.
- When connecting ETERNUS disk array and server on iSCSI via LAN switch, it is recommended that the speed of network adapter on server and ETERNUS iSCSI host adapter should be matched.
- Recommended example : 10Gbps LAN adapter - LAN switch - 10Gbps iSCSI host interface of ETERNUS

If the speed of network adapter on server and ETERNUS iSCSI host adapter are not matched, then transmission error may occur due to traffic congestion.

- Not recommended example : 10Gbps LAN adapter - LAN switch - 1Gbps host interface of ETERNUS.

iSCSI native connection

Windows Server 2016 x64 Editions (64-bit version)	OS	Connection type	NIC or HBA	Driver version	Microsoft iSCSI Software Initiator version	Path Failover	System Configuration WSFC	iSCSI boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMEQUEST 2000 series	Standard/Enterprise/ Datacenter	Direct/ via switch	NIC and CNA for PRIMEQUEST 2000 *1	See Instruction for use	OS bundled	EMPD V2.0L23 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L60 or later)	- Please use Driver which are supported by PRIMEQUEST 2000 series.
						MSDSM	WSFC	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
PRIMERGY	Essentials /Standard/ Datacenter	Direct/ via switch	NIC and CNA for PRIMERGY *1	See Instruction for use	OS bundled	EMPD V2.0L23 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L60 or later)	- Please use Driver which are supported by PRIMERGY.
						MSDSM	WSFC	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
Other Companies' Servers	Essentials /Standard/ Datacenter	Direct/ via switch	Intel NIC / CNA *1	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L60 or later)	- Please use Driver which are supported by NIC/CNA vendor
						MSDSM	WSFC	No	Supported (V20L16 or later)	Supported (V10L60 or later)	

*1 Please contact server supplier about available NIC and CNA.

Windows Server 2012R2 x64 Editions (64-bit version)	OS	Connection type	NIC or HBA	Driver version	Microsoft iSCSI Software Initiator version	Path Failover	System Configuration WSFC	iSCSI boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMEQUEST 2000 series (PQ2800E2/PQ2800L2/ PQ2400E2/PQ2400L2/ PQ2400S2/ PQ2400S2 Lite/ PQ2800B2/ PQ2800E/PQ2800L/ PQ2400E/PQ2400L/ PQ2400S/ PQ2400S Lite/ PQ2800B only)	Standard/Enterprise/ Datacenter	Direct/ via switch	LAN port (1GbE) on IO unit(MC-3HUX31) (On Board)	See Instruction for use	OS bundled	EMPD V2.0L21 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L54 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series. - Please ask availability of iSCSI boot to Server side.
	Standard/Enterprise/ Datacenter	Direct/ via switch	LAN port (10GbE) on IO unit(MC-3HUX41) (On Board)	See Instruction for use	OS bundled	EMPD V2.0L21 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L54 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series. - Please ask availability of iSCSI boot to Server side.
	Standard/Enterprise/ Datacenter	Direct/ via switch	Dual channel LAN card (1GbE) MC-QJGEA*	See Instruction for use	OS bundled	EMPD V2.0L21 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L54 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
	Standard/Enterprise/ Datacenter	Direct/ via switch	Quad channel LAN card (1GbE) MC-QJGEB*	See Instruction for use	OS bundled	EMPD V2.0L21 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L54 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
	Standard/Enterprise/ Datacenter	Direct/ via switch	Dual channel LAN card (10GbE) MC-QJXE3*	See Instruction for use	OS bundled	EMPD V2.0L21 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L54 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
	Standard/Enterprise/ Datacenter	Direct/ via switch	Dual channel LAN card (10GbE) MC-QJXE4*	See Instruction for use	OS bundled	EMPD V2.0L21 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L54 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
	Standard/Enterprise/ Datacenter	Direct/ via switch	Dual channel CNA (10Gbps) MC-QJCE6*	See Instruction for use	OS bundled	EMPD V2.0L21 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L54 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
PRIMEQUEST 1000 series (PQ1400S2/ 1400S2/1400E2/ 1400L2/1800E2/ 1800L2 only)	Hyper-V/ Standard/Datacenter	Direct/ via switch	LAN port on [IO unit] (On board)	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L54 or later)	- Please use Driver which is supported by PRIMEQUEST 1000 series.
		Direct/ via switch	MC-QJGE31/MC-QJGE3L	-	OS bundled	EMPD V2.0L20 or later	WSFC	No	Planned 2	Planned 2	
		Direct/ via switch	MC-QJXE11	-	OS bundled	EMPD V2.0L20 or later	WSFC	No	Planned 2	Planned 2	

Windows Server 2012R2 x64 Editions (64-bit version)	OS	Connection type	NIC or HBA	Driver version	Microsoft iSCSI Software Initiator version	Path Failover	System Configuration WSFC	iSCSI boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-LAD04/PYBLAD041/ PYBLAD042 S26361-F3331-L1/E1	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L50 or later)	- Please use Driver which are supported by PRIMERGY.
						MSDSM	WSFC	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-LA234 S26361-F3611-L501	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
						MSDSM	WSFC	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-LA101/PY-LA101L PYBLA101/PYBLA101L S26361-F3516-L1/L201 S26361-F3516-E1/E201	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
						MSDSM	WSFC	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-LA222 S26361-F3610-L502	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
						MSDSM	WSFC	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-LA242/PYBLA242/ PYBLA242L S26361-F3629-L502/E2/E202	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
						MSDSM	WSFC	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-LA264/PYBLA264/ PYBLA264L PY-LA262/PYBLA262/ PYBLA262L S26361-F4610-L504/E4/E204 S26361-F4610-L502/E2/E202	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
						MSDSM	WSFC	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-LA232/PYBLA232U PY-LA244/PYBLA244U S26361-F3740-L501/E701 S26361-F3739-L501/E701	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
						MSDSM	WSFC	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-LA252 /PYBLA252 /PYBLA252L S26361-F3752-L502/E2/E202	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
						MSDSM	WSFC	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-CN202/PY-CN202L PYBCN202/PYBCN202L S26361-F3592-L2/L202/E2/E202	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	- Please use Driver which are supported by PRIMERGY. - Please ask availability of iSCSI boot to Server side.
						MSDSM	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
						MSDSM	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
						MSDSM	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	Onboard LAN/ Onboard CNA(BE3) PYBFC0021 S26361-F3874-E1	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
						MSDSM	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	

Windows Server 2012R2 x64 Editions (64-bit version)	OS	Connection type	NIC or HBA	Driver version	Microsoft iSCSI Software Initiator version	Path Failover	System Configuration WSFC	iSCSI boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
Other Companies' Servers	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	Intel PRO/1000MT	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	- Please use Driver which are supported by NIC/CNA vendor - Please ask availability of iSCSI boot to Server side.
						MSDSM	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	Intel PRO/1000 PT/ Intel PRO/1000 PF	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
						MSDSM	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	Intel Ethernet I350T2 Intel Ethernet I350T4	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
						MSDSM	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	Intel Ethernet I340 Server Adapter	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
						MSDSM	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	Intel Gigabit ET/ET2/EF	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
						MSDSM	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
		Direct/ via switch	Broadcom 5708S	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
						MSDSM	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
		Direct/ via switch	Intel 10 Gigabit XF	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
						MSDSM	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
		Direct/ via switch	Intel Ethernet X540	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
						MSDSM	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	Intel Ethernet X520	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
						MSDSM	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
		Direct/ via switch	HP: NC373T, NC382T	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
						MSDSM	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
		Direct/ via switch	HP: NC112T	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
						MSDSM	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	HP: NC375T	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
						MSDSM	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	Onboard CNA(BE3) OCe11102	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
						MSDSM	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	OCe10102	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
						MSDSM	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	OCe14401B	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
						MSDSM	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	OCe14102	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
						MSDSM	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	

Windows Server 2012 x64 Editions (64-bit version)	OS	Connection type	NIC or HBA	Driver version	Microsoft iSCSI Software Initiator version	Path Fallover	System Configuration WSFC	iSCSI boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMEQUEST 2000 series (PQ2800E2/PQ2800L2/ PQ2400E2/PQ2400L2/ PQ2400S2/ PQ2400S2 Lite/ PQ2800B2)	Standard/Datacenter	Direct/ via switch	LAN port (1GbE) on IO unit (MC-3HUX31) (On Board)	See Instruction for use	OS bundled	EMPD V2.0L21 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L60 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series. - When using iSCSI boot, please ask support status to the server side.
		Direct/ via switch	LAN port (10GbE) on IO unit(MC-3HUX41) (On Board)	See Instruction for use	OS bundled	EMPD V2.0L21 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L60 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series. - When using iSCSI boot, please ask support status to the server side.
		Direct/ via switch	Dual Channel LAN card (1GbE) MC-QJGEA*	See Instruction for use	OS bundled	EMPD V2.0L21 or later	WSFC	no	Supported (V20L16 or later)	Supported (V10L60 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
		Direct/ via switch	Quad Channel LAN card (1GbE) MC-QJGEB*	See Instruction for use	OS bundled	EMPD V2.0L21 or later	WSFC	no	Supported (V20L16 or later)	Supported (V10L60 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
		Direct/ via switch	Dual Channel LAN card (10GbE) MC-QJXE3*	See Instruction for use	OS bundled	EMPD V2.0L21 or later	WSFC	no	Supported (V20L16 or later)	Supported (V10L60 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
		Direct/ via switch	Dual Channel LAN card (10GbE) MC-QJXE4*	See Instruction for use	OS bundled	EMPD V2.0L21 or later	WSFC	no	Supported (V20L16 or later)	Supported (V10L60 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
		Direct/ via switch	Dual Channel converged network adapter (10Gbps) MC-QJCE6*	See Instruction for use	OS bundled	EMPD V2.0L21 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L60 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series. - When using iSCSI boot, please ask support status to the server side.
PRIMEQUEST 2000 series (PQ2800E/PQ2800L/ PQ2400E/PQ2400L/ PQ2400S/ PQ2400S Lite/ PQ2800B only)	Standard/Enterprise/ Datacenter	Direct/ via switch	LAN port (1GbE) on IO unit(MC-3HUX31) (On Board)	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L54 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
	Standard/Enterprise/ Datacenter	Direct/ via switch	LAN port (10GbE) on IO unit(MC-3HUX41) (On Board)	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L54 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
	Standard/Enterprise/ Datacenter	Direct/ via switch	MC-QJGE81/MCXQJGE81/ MC-QJGE82/MCXQJGE82/ MC-QJGE8L	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L54 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
	Standard/Enterprise/ Datacenter	Direct/ via switch	MC-QJGE91/MCXQJGE91/ MC-QJGE92/MCXQJGE92/ MC-QJGE9L	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L54 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
	Standard/Enterprise/ Datacenter	Direct/ via switch	MC-QJXE31/MCXQJXE31/ MC-QJXE32/MCXQJXE32/ MC-QJXE3L	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L54 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
	Standard/Enterprise/ Datacenter	Direct/ via switch	MC-QJXE41/MCXQJXE41/ MC-QJXE42/MCXQJXE42/ MC-QJXE4L	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L54 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
	Standard/Enterprise/ Datacenter	Direct/ via switch	Dual channel LAN card (1GbE) MC-QJGEA1/MCXQJGEA1/ MC-QJGEA2/MC-QJGEAL	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L54 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
	Standard/Enterprise/ Datacenter	Direct/ via switch	Quad channel LAN card(1GbE) MC-QJGEB1/MCXQJGEB1/ MC-QJGEB2/MC-QJGEBL	See Instruction for use	OS bundled	EMPD V2.0L20 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L54 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
PRIMEQUEST 1000 series (PQ1400S2 Lite/ 1400S2/1400E2/ 1400L2/1800E2/ 1800L2 only)	Hyper-V/ Standard/Datacenter	Direct/ via switch	LAN port on [I/O unit] (On board)/ MC-QJGE31/MC-QJGE3L	17.2 or later	OS bundled	EMPD V2.0L19 or later	WSFC	No	Supported (V20L14 or later)	Supported (V10L45 or later)	
		Direct/ via switch	MC-QJXE11	17.2 or later	OS bundled	EMPD V2.0L19 or later	WSFC	No	Supported (V20L14 or later)	Supported (V10L45 or later)	

Windows Server 2012 x64 Editions (64-bit version)	OS	Connection type	NIC or HBA	Driver version	Microsoft iSCSI Software Initiator version	Path Failover	System Configuration WSFC	iSCSI boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-LAD04/PYBLAD041/ PYBLAD042 S26361-F3331-L1/E1	See Instruction for use	OS bundled	EMPD V2.0L19 or later	WSFC	No	Supported (V20L12 or later)	Supported (V10L35 or later)	- When Offloaded Data Transfer(ODX) function is used, the firmware of ETERNUS DX80 S2/DX90 S2 should be upgraded to V10L40 or later, and Windows fix patch KB2796995 should be applied. http://support.microsoft.com/kb/2796995/en-us - Please use Driver which are supported by NIC/CNA vendor - Please ask availability of iSCSI boot to Server side.
						MSDSM	WSFC	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-LA234 S26361-F3611-L501	See Instruction for use	OS bundled	EMPD V2.0L19 or later	WSFC	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
						MSDSM	WSFC	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-LA101/PY-LA101L PYBLA101/PYBLA101L S26361-F3516-L1/L201 S26361-F3516-E1/E201	See Instruction for use	OS bundled	EMPD V2.0L19 or later	WSFC	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
						MSDSM	WSFC	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-LA222 S26361-F3610-L502	See Instruction for use	OS bundled	EMPD V2.0L19 or later	WSFC	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
						MSDSM	WSFC	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-LA242/PYBLA242/ PYBLA242L S26361-F3629-L502/E2/E202	V17.2 or later	OS bundled	EMPD V2.0L19 or later	WSFC	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
						MSDSM	WSFC	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-LA264/PYBLA264/ PYBLA264L PY-LA262/PYBLA262/ PYBLA262L S26361-F4610-L504/E4/E204 S26361-F4610-L502/E2/E202	See Instruction for use	OS bundled	EMPD V2.0L19 or later	WSFC	No	Supported (V20L14 or later)	Supported (V10L40 or later)	
						MSDSM	WSFC	No	Supported (V20L14 or later)	Supported (V10L40 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-LA232/PYBLA232U PY-LA244/PYBLA244U S26361-F3740-L501/E701 S26361-F3739-L501/E701	See Instruction for use	OS bundled	EMPD V2.0L19 or later	WSFC	No	Supported (V20L14 or later)	Supported (V10L40 or later)	
						MSDSM	WSFC	No	Supported (V20L14 or later)	Supported (V10L40 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-LA252 /PYBLA252 /PYBLA252L S26361-F3752-L502/E2/E202	V17.2 or later	OS bundled	EMPD V2.0L19 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L45 or later)	
						MSDSM	WSFC	No	Supported (V20L16 or later)	Supported (V10L45 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	Onboard LAN	See Instruction for use	OS bundled	EMPD V2.0L19 or later	WSFC	See Instruction for use	Supported (V20L12 or later)	Supported (V10L35 or later)	
						MSDSM	WSFC		Supported (V20L12 or later)	Supported (V10L35 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-CN202/PY-CN202L PYBCN202/PYBCN202L S26361-F3592-L2/L202/E2/E202	2.72.012.001 or later	OS bundled	EMPD V2.0L19 or later	WSFC	See Instruction for use	Supported (V20L14 or later)	Supported (V10L40 or later)	
						MSDSM	WSFC		Supported (V20L14 or later)	Supported (V10L40 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	See Instruction for use	OS bundled	EMPD V2.0L19 or later	WSFC	See Instruction for use	Supported (V20L14 or later)	Supported (V10L40 or later)	
						MSDSM	WSFC		Supported (V20L14 or later)	Supported (V10L40 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	See Instruction for use	OS bundled	EMPD V2.0L19 or later	WSFC	See Instruction for use	Supported (V20L14 or later)	Supported (V10L40 or later)	
						MSDSM	WSFC		Supported (V20L14 or later)	Supported (V10L40 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	Onboard CNA(BE3) PYBFC021 S26361-F3874-E1	V2.74.009 or later	OS bundled	EMPD V2.0L19 or later	WSFC	Yes (please refer to "Instruction for use")	Supported (V20L16 or later)	Supported (V10L40 or later)	- Only the onboard Emulex CNA(BE3) is supported - iSCSI boot is supported only for iSCSI Hardware Initiator - Server View is required. - When Offloaded Data Transfer(ODX) function is used, the firmware of ETERNUS DX80 S2/DX90 S2 should be upgraded to V10L40 or later, and Windows fix patch KB2796995 should be applied. http://support.microsoft.com/kb/2796995/en-us
						MSDSM	WSFC	Yes (please refer to "Instruction for use")	Supported (V20L16 or later)	Supported (V10L40 or later)	

Windows Server 2012 x64 Editions (64-bit version)	OS	Connection type	NIC or HBA	Driver version	Microsoft iSCSI Software Initiator version	Path Failover	System Configuration WSFC	iSCSI boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-LAD04/PYBLAD041/ PYBLAD042 S26361-F3331-L1/E1	See Instruction for use	OS bundled	EMPD V2.0L19 or later	OracleRAC 11gR2 or later	No	Supported (V20L12 or later)	Supported (V10L35 or later)	- When Offloaded Data Transfer(ODX) function is used, the firmware of ETERNUS DX80 S2/DX90 S2 should be upgraded to V10L40 or later, and Windows fix patch KB2796995 should be applied. http://support.microsoft.com/kb/2796995/en-us - Please use Driver which are supported by NIC/CNA vendor - Please ask availability of iSCSI boot to Server side.
						MSDSM	OracleRAC 11gR2 or later	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-LA234 S26361-F3611-L501	See Instruction for use	OS bundled	EMPD V2.0L19 or later	OracleRAC 11gR2 or later	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
						MSDSM	OracleRAC 11gR2 or later	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-LA101/PY-LA101L PYBLA101/PYBLA101L S26361-F3516-L1/L201 S26361-F3516-E1/E201	See Instruction for use	OS bundled	EMPD V2.0L19 or later	OracleRAC 11gR2 or later	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
						MSDSM	OracleRAC 11gR2 or later	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-LA222 S26361-F3610-L502	See Instruction for use	OS bundled	EMPD V2.0L19 or later	OracleRAC 11gR2 or later	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
						MSDSM	OracleRAC 11gR2 or later	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-LA242/PYBLA242/ PYBLA242L S26361-F3629-L502/E2/E202	V17.2 or later	OS bundled	EMPD V2.0L19 or later	OracleRAC 11gR2 or later	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
						MSDSM	OracleRAC 11gR2 or later	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-LA264/PYBLA264/ PYBLA264L PY-LA262/PYBLA262/ PYBLA262L S26361-F4610-L504/E4/E204 S26361-F4610-L502/E2/E202	See Instruction for use	OS bundled	EMPD V2.0L19 or later	OracleRAC 11gR2 or later	No	Supported (V20L14 or later)	Supported (V10L40 or later)	
						MSDSM	OracleRAC 11gR2 or later	No	Supported (V20L14 or later)	Supported (V10L40 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-LA232/PYBLA232U PY-LA244/PYBLA244U S26361-F3740-L501/E701 S26361-F3739-L501/E701	See Instruction for use	OS bundled	EMPD V2.0L19 or later	OracleRAC 11gR2 or later	No	Supported (V20L14 or later)	Supported (V10L40 or later)	
						MSDSM	OracleRAC 11gR2 or later	No	Supported (V20L14 or later)	Supported (V10L40 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	PY-LA252 /PYBLA252 /PYBLA252L S26361-F3752-L502/E2/E202	V17.2 or later	OS bundled	EMPD V2.0L19 or later	OracleRAC 11gR2 or later	No	Supported (V20L16 or later)	Supported (V10L45 or later)	
						MSDSM	OracleRAC 11gR2 or later	No	Supported (V20L16 or later)	Supported (V10L45 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	Onboard LAN	See Instruction for use	OS bundled	EMPD V2.0L19 or later	OracleRAC 11gR2 or later	See Instruction for use	Supported (V20L12 or later)	Supported (V10L35 or later)	
						MSDSM	OracleRAC 11gR2 or later		Supported (V20L12 or later)	Supported (V10L35 or later)	

Windows Server 2012 x64 Editions (64-bit version)	OS	Connection type	NIC or HBA	Driver version	Microsoft iSCSI Software Initiator version	Path Failover	System Configuration WSFC	iSCSI boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
Other Companies' Servers	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	Intel PRO/1000MT	-	OS bundled	EMPD V2.0L19 or later	WSFC	No	Supported (V20L12 or later)	Supported (V10L35 or later)	- When Offloaded Data Transfer(ODX) function is used, the firmware of ETERNUS DX80 S2/DX90 S2 should be upgraded to V10L40 or later, and Windows fix patch KB2796995 should be applied. http://support.microsoft.com/kb/2796995/en-us
						MSDSM	WSFC	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	Intel PRO/1000 PT/ Intel PRO/1000 PF	-	OS bundled	EMPD V2.0L19 or later	WSFC	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
						MSDSM	WSFC	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	Intel Ethernet I350T2 Intel Ethernet I350T4	-	OS bundled	EMPD V2.0L19 or later	WSFC	No	Supported (V20L14 or later)	Supported (V10L40 or later)	
						MSDSM	WSFC	No	Supported (V20L14 or later)	Supported (V10L40 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	Intel Ethernet I340 Server Adapter	-	OS bundled	EMPD V2.0L19 or later	WSFC	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
						MSDSM	WSFC	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	Intel Gigabit ET/ET2/EF	-	OS bundled	EMPD V2.0L19 or later	WSFC	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
						MSDSM	WSFC	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
		Direct/ via switch	Broadcom 5708S	-	OS bundled	EMPD V2.0L19 or later	WSFC	No	Planned 2	Planned 2	
						MSDSM	WSFC	No	Planned 2	Planned 2	
		Direct/ via switch	Intel 10 Gigabit XF	-	OS bundled	EMPD V2.0L19 or later	WSFC	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
						MSDSM	WSFC	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
		Direct/ via switch	Intel Ethernet X540	-	OS bundled	EMPD V2.0L19 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L45 or later)	
						MSDSM	WSFC	No	Supported (V20L16 or later)	Supported (V10L45 or later)	
		Direct/ via switch	Intel Ethernet X520	-	OS bundled	EMPD V2.0L19 or later	WSFC	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
						MSDSM	WSFC	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	HP: NC373T, NC382T	-	OS bundled	EMPD V2.0L19 or later	WSFC	No	Planned 2	Planned 2	
						MSDSM	WSFC	No	Planned 2	Planned 2	
		Direct/ via switch	HP: NC112T	-	OS bundled	EMPD V2.0L19 or later	WSFC	No	Planned 2	Planned 2	
						MSDSM	WSFC	No	Planned 2	Planned 2	
		Direct/ via switch	HP: NC375T	-	OS bundled	EMPD V2.0L19 or later	WSFC	No	Planned 2	Planned 2	
						MSDSM	WSFC	No	Planned 2	Planned 2	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	OCe10102	See instruction for use	OS bundled	EMPD V2.0L19 or later	WSFC	See instruction for use	Supported (V20L14 or later)	Supported (V10L40 or later)	
						MSDSM	WSFC		Supported (V20L14 or later)	Supported (V10L40 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	OCe14401B	See instruction for use	OS bundled	EMPD V2.0L19 or later	WSFC	See instruction for use	Supported (V20L14 or later)	Supported (V10L40 or later)	- Please use Driver which are supported by NIC/CNA vendor - Please ask availability of iSCSI boot to Server side.
						MSDSM	WSFC		Supported (V20L14 or later)	Supported (V10L40 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	OCe14102	See instruction for use	OS bundled	EMPD V2.0L19 or later	WSFC	See instruction for use	Supported (V20L14 or later)	Supported (V10L40 or later)	
						MSDSM	WSFC		Supported (V20L14 or later)	Supported (V10L40 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	Onboard CNA(BE3) OCe11102	-	-	EMPD V2.0L19 or later	WSFC	Yes (please refer to "Instruction for use")	Supported (V20L16 or later)	Supported (V10L40 or later)	- Only the onboard Emulex CNA(BE3) is supported - iSCSI boot is supported only for iSCSI Hardware Initiator - When Offloaded Data Transfer(ODX) function is used, the firmware of ETERNUS DX80 S2/DX90 S2 should be upgraded to V10L40 or later, and Windows fix patch KB2796995 should be applied. http://support.microsoft.com/kb/2796995/en-us
						MSDSM	WSFC	Yes (please refer to "Instruction for use")	Supported (V20L16 or later)	Supported (V10L40 or later)	

Windows Server 2012 x64 Editions (64-bit version)	OS	Connection type	NIC or HBA	Driver version	Microsoft iSCSI Software Initiator version	Path Failover	System Configuration WSFC	iSCSI boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
Other Companies' Servers	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	Intel PRO/1000MT	-	OS bundled	EMPD V2.0L19 or later	OracleRAC 11gR2 or later	No	Supported (V20L12 or later)	Supported (V10L35 or later)	- When Offloaded Data Transfer(ODX) function is used, the firmware of ETERNUS DX80 S2/DX90 S2 should be upgraded to V10L40 or later, and Windows fix patch KB2796996 should be applied. http://support.microsoft.com/kb/2796996/en-us
						MSDSM	OracleRAC 11gR2 or later	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	Intel PRO/1000 PT/ Intel PRO/1000 PF	-	OS bundled	EMPD V2.0L19 or later	OracleRAC 11gR2 or later	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
						MSDSM	OracleRAC 11gR2 or later	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	Intel Ethernet I350T2 Intel Ethernet I350T4	-	OS bundled	EMPD V2.0L19 or later	OracleRAC 11gR2 or later	No	Supported (V20L14 or later)	Supported (V10L40 or later)	
						MSDSM	OracleRAC 11gR2 or later	No	Supported (V20L14 or later)	Supported (V10L40 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	Intel Ethernet I340 Server Adapter	-	OS bundled	EMPD V2.0L19 or later	OracleRAC 11gR2 or later	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
						MSDSM	OracleRAC 11gR2 or later	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	Intel Gigabit ET/ET2/EF	-	OS bundled	EMPD V2.0L19 or later	OracleRAC 11gR2 or later	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
						MSDSM	OracleRAC 11gR2 or later	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
		Direct/ via switch	Broadcom 5708S	-	OS bundled	EMPD V2.0L19 or later	OracleRAC 11gR2 or later	No	Planned 2	Planned 2	
						MSDSM	OracleRAC 11gR2 or later	No	Planned 2	Planned 2	
		Direct/ via switch	Intel 10 Gigabit XF	-	OS bundled	EMPD V2.0L19 or later	OracleRAC 11gR2 or later	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
						MSDSM	OracleRAC 11gR2 or later	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
		Direct/ via switch	Intel Ethernet X540	-	OS bundled	EMPD V2.0L19 or later	OracleRAC 11gR2 or later	No	Supported (V20L16 or later)	Supported (V10L45 or later)	
						MSDSM	OracleRAC 11gR2 or later	No	Supported (V20L16 or later)	Supported (V10L45 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct/ via switch	Intel Ethernet X520	-	OS bundled	EMPD V2.0L19 or later	OracleRAC 11gR2 or later	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
						MSDSM	OracleRAC 11gR2 or later	No	Supported (V20L12 or later)	Supported (V10L35 or later)	

Windows Server 2008 R2 x64 Editions (64-bit version)	OS	Connection type	NIC or HBA	Driver version	Microsoft iSCSI Software Initiator version	Path Failover	System Configuration WSFC	iSCSI boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMEQUEST 2000 series (PQ2800E/PQ2800L/ PQ2400E/PQ2400L/ PQ2400S/ PQ2400S Lite/ PQ2800B only)	Standard/Enterprise/ Datacenter	Direct/ via switch	LAN port (1GbE) on IO unit(MC-3HUX31) (On Board)	See Insturction for use	OS bundled	EMPD V2.0L20 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L54 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
	Standard/Enterprise/ Datacenter	Direct/ via switch	LAN port (10GbE) on IO unit(MC-3HUX41) (On Board)	See Insturction for use	OS bundled	EMPD V2.0L20 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L54 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
	Standard/Enterprise/ Datacenter	Direct/ via switch	MC-QJGE81/MCXQJGE81/ MC-QJGE82/MCXQJGE82/ MC-QJGE8L	See Insturction for use	OS bundled	EMPD V2.0L20 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L54 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
	Standard/Enterprise/ Datacenter	Direct/ via switch	MC-QJGE91/MCXQJGE91/ MC-QJGE92/MCXQJGE92/ MC-QJGE9L	See Insturction for use	OS bundled	EMPD V2.0L20 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L54 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
	Standard/Enterprise/ Datacenter	Direct/ via switch	MC-QJXE31/MCXQJXE31/ MC-QJXE32/MCXQJXE32/ MC-QJXE3L	See Insturction for use	OS bundled	EMPD V2.0L20 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L54 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
	Standard/Enterprise/ Datacenter	Direct/ via switch	MC-QJXE41/MCXQJXE41/ MC-QJXE42/MCXQJXE42/ MC-QJXE4L	See Insturction for use	OS bundled	EMPD V2.0L20 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L54 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
	Standard/Enterprise/ Datacenter	Direct/ via switch	Dual channel LAN card (1GbE) MC-QJGEA1/MCXQJGEA1/ MC-QJGEA2/MC-QJGEAL	See Insturction for use	OS bundled	EMPD V2.0L20 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L54 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
	Standard/Enterprise/ Datacenter	Direct/ via switch	Quad channel LAN card(1GbE) MC-QJGEB1/MCXQJGEB1/ MC-QJGEB2/MC-QJGEBL	See Insturction for use	OS bundled	EMPD V2.0L20 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L54 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
PRIMEQUEST 1000 series (PQ1400S/1400E/1400L/ 1800E/1800L only)	Hyper-V, Standard/Enterprise/ Datacenter R2	Direct/ via switch	LAN port on [I/O unit] (On board)/ MC-QJGE11/ MC-QJGE1L	V15.1.2 or later	OS bundled	EMPD V2.0L16 or later	WSFC	No	Supported (V20L10 or later)	N.A.	
	Hyper-V, Standard/Enterprise/ Datacenter R2/R2 SP1	Direct/ via switch		15.8.1 or later	OS bundled	EMPD V2.0L18 or later	WSFC	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
PRIMEQUEST 1000 series (PQ1400S2/1400E2/1400L2/ 1800E2/1800L2 only)	Hyper-V, Standard/Enterprise/ Datacenter R2/R2 SP1	Direct/ via switch	LAN port on [I/O unit] (On board)/ MC-QJGE31/MC-QJGE3L	15.8.1 or later	OS bundled	EMPD V2.0L18 or later	WSFC	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
		Direct/ via switch	MC-QJXE11	15.8.1 or later	OS bundled	EMPD V2.0L18 or later	WSFC	No	Planned 2	Planned 2	

Windows Server 2008 R2 x64 Editions (64-bit version)	OS	Connection type	NIC or HBA	Driver version	Microsoft iSCSI Software Initiator version	Path Failover	System Configuration WSFC	iSCSI boot	Model		Instruction for use		
									DX60 S2	DX80 S2 DX90 S2			
PRIMERGY	Windows2008 R2 SP1 Hyper-V, Standard/Enterprise/Datacenter, HPC	Direct/ via switch	PG-288/PG-288L/ PG-289/PG-289L/ PG-286L/PG-286L1/ S26361-F3241-L1/ S26361-F3241-L201/ S26361-F3228-L1/ S26361-F3228-L201/ PY-LAD04/PYBLAD041/ PYBLAD042	V14.3 or later	OS bundled	EMPD V2.0L16 or later Note 3	WSFC	No	Supported (V20L10 or later)	N.A.			
					OS bundled	MSDSM Note 3	WSFC	No	Supported (V20L10 or later)	N.A.			
				15.3 or later	OS bundled	EMPD V2.0L16 or later Note 3	WSFC	No	Supported (V20L10 or later)	N.A.			
					OS bundled	MSDSM Note 3	WSFC	No	Supported (V20L10 or later)	N.A.			
				15.8.1 or later	OS bundled	EMPD V2.0L18 or later Note 3	WSFC	No	Supported (V20L10 or later)	Supported (V10L12 or later)			
					OS bundled	MSDSM Note 3	WSFC	No	Supported (V20L10 or later)	Supported (V10L12 or later)			
				16.3 or later	OS bundled	EMPD V2.0L18 or later Note 3	EXPRESSCLUSTER X 3.1 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)			
					OS bundled	MSDSM Note 3	WSFC	No	Supported (V20L10 or later)	Supported (V10L12 or later)			
				16.8 or later	OS bundled	EMPD V2.0L19or later Note 3	Lifekeeper	No	Supported (V20L13 or later)	Supported (V10L35 or later)			
					OS bundled	MSDSM Note 3	WSFC	No	Supported (V20L13 or later)	Supported (V10L35 or later)			
				16.8 or later	OS bundled	EMPD V2.0L19or later Note 3	OracleRAC 11gR2 or later	No	Supported (V20L13 or later)	Supported (V10L35 or later)			
					OS bundled	MSDSM Note 3	OracleRAC 11gR2 or later	No	Supported (V20L13 or later)	Supported (V10L35 or later)			
		Direct/ via switch	PG-2871 PY-LA234 S26361-F3611-L501	15.3 or later	OS bundled	EMPD V2.0L16 or later Note 3	WSFC	No	Supported (V20L10 or later)	N.A.			
					OS bundled	MSDSM Note 3	WSFC	No	Supported (V20L10 or later)	N.A.			
				15.8.1 or later	OS bundled	EMPD V2.0L18 or later Note 3	WSFC	No	Supported (V20L10 or later)	Supported (V10L12 or later)			
					OS bundled	MSDSM Note 3	WSFC	No	Supported (V20L10 or later)	Supported (V10L12 or later)			
				16.3 or later	OS bundled	EMPD V2.0L18 or later Note 3	EXPRESSCLUSTER X 3.1 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)			
					OS bundled	MSDSM Note 3	EXPRESSCLUSTER X 3.1 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)			
				16.8 or later	OS bundled	EMPD V2.0L19 or later Note 3	Lifekeeper	No	Supported (V20L13 or later)	Supported (V10L35 or later)			
					OS bundled	MSDSM Note 3	Lifekeeper	No	Supported (V20L13 or later)	Supported (V10L35 or later)			
				16.8 or later	OS bundled	EMPD V2.0L19 or later Note 3	OracleRAC 11gR2 or later	No	Supported (V20L13 or later)	Supported (V10L35 or later)			
					OS bundled	MSDSM Note 3	OracleRAC 11gR2 or later	No	Supported (V20L13 or later)	Supported (V10L35 or later)			
				Direct/ via switch	PG-285/PG-285L PG-285/PG-285L PY-LA101/PY-LA101L PYBLA101/PYBLA101L S26361-F3516-L1/L201 S26361-F3516-E1/E201	15.3 or later	OS bundled	EMPD V2.0L16 or later Note 3	WSFC	No		Supported (V20L10 or later)	N.A.
							OS bundled	MSDSM Note 3	WSFC	No		Supported (V20L10 or later)	N.A.
		15.8.1 or later	OS bundled			EMPD V2.0L18 or later Note 3	WSFC	No	Supported (V20L10 or later)	Supported (V10L12 or later)			
			OS bundled			MSDSM Note 3	WSFC	No	Supported (V20L10 or later)	Supported (V10L12 or later)			
		16.3 or later	OS bundled			EMPD V2.0L18 or later Note 3	EXPRESSCLUSTER X 3.1 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)			
			OS bundled			MSDSM Note 3	EXPRESSCLUSTER X 3.1 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)			
		16.8 or later	OS bundled			EMPD V2.0L19 or later Note 3	Lifekeeper	No	Supported (V20L13 or later)	Supported (V10L35 or later)			
			OS bundled			MSDSM Note 3	Lifekeeper	No	Supported (V20L13 or later)	Supported (V10L35 or later)			
		16.8 or later	OS bundled			EMPD V2.0L19 or later Note 3	OracleRAC 11gR2 or later	No	Supported (V20L13 or later)	Supported (V10L35 or later)			
			OS bundled			MSDSM Note 3	OracleRAC 11gR2 or later	No	Supported (V20L13 or later)	Supported (V10L35 or later)			
		Direct/ via switch	PY-LA232/PYBLA232U PY-LA244/PYBLA244U S26361-F3740-L501/E701 S26361-F3739-L501/E701			V17.2~	OS bundled	EMPD V2.0L19 or later Note 3	WSFC	No		Supported (V20L14 or later)	Supported (V10L45 or later)
							OS bundled	MSDSM Note 3	WSFC	No		Supported (V20L14 or later)	Supported (V10L45 or later)
				OS bundled	EMPD V2.0L19 or later Note 3		OracleRAC 11gR2 or later	No	Supported (V20L14 or later)	Supported (V10L45 or later)			
				OS bundled	MSDSM Note 3		OracleRAC 11gR2 or later	No	Supported (V20L14 or later)	Supported (V10L45 or later)			
		Direct/ via switch	PY-LA252 /PYBLA252 /PYBLA252L S26361-F3752-L502/E2/E202	V17.2 or later	OS bundled	EMPD V2.0L19 or later Note 3	WSFC	No	Supported (V20L16 or later)	Supported (V10L45 or later)			
						MSDSM Note 3	WSFC	No	Supported (V20L16 or later)	Supported (V10L45 or later)			
						EMPD V2.0L19 or later Note 3	OracleRAC 11gR2 or later	No	Supported (V20L16 or later)	Supported (V10L45 or later)			
						MSDSM Note 3	OracleRAC 11gR2 or later	No	Supported (V20L16 or later)	Supported (V10L45 or later)			

Note 3 : When using EMPD on Windows Server 2008 R2, please apply KB2522766. When using MSDSM on Windows Server 2008 R2, please apply KB2522766.

Windows Server 2008 R2 x64 Editions (64-bit version)	OS	Connection type	NIC or HBA	Driver version	Microsoft iSCSI Software Initiator version	Path Failover	System Configuration WSFC	iSCSI boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	Windows2008 R2/R2 SP1 Hyper-V, Standard/Enterprise/Datacenter, HPC	Direct/ via switch	PG-2862/ PY-LA222 S26361-F3610-L502	15.8.1 or later	OS bundled	EMPD V2.0L18 or later Note 3	WSFC	No	Supported (V20L12 or later)	Supported (V10L12 or later)	
					OS bundled	MSDSM Note 3	WSFC	No	Supported (V20L12 or later)	Supported (V10L12 or later)	
				16.3 or later	OS bundled	EMPD V2.0L18 or later Note 3	EXPRESSCLUSTER X 3.1 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	MSDSM Note 3	EXPRESSCLUSTER X 3.1 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
				16.8 or later	OS bundled	EMPD V2.0L19 or later Note 3	Lifekeeper	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
					OS bundled	MSDSM Note 3	Lifekeeper	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
		Direct/ via switch	PG-284G/PG-284GL /PG-2841G(L)/ PG8284G/PG8284GL PY-LA242/PYBLA242/ PYBLA242L/ S26361-F3555-L501	15.8.1 or later	OS bundled	EMPD V2.0L18 or later Note 3	WSFC	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	MSDSM Note 3	WSFC	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
				16.3 or later	OS bundled	EMPD V2.0L18 or later Note 3	EXPRESSCLUSTER X 3.1 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	MSDSM Note 3	EXPRESSCLUSTER X 3.1 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
				16.8 or later	OS bundled	EMPD V2.0L19 or later Note 3	Lifekeeper	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
					OS bundled	MSDSM Note 3	Lifekeeper	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
	Hyper-V, Standard/Enterprise/ Datacenter, HPC	Direct/ via switch	PG-LND201/ PG-LND203/ S26361-F3451-L1/ S26361-F3331-L1	V14.3 or later	OS bundled	EMPD V2.0L16 or later Note 3	WSFC	No	Supported (V20L10 or later)	N.A.	
					OS bundled	MSDSM Note 3	WSFC	No	Supported (V20L10 or later)	N.A.	
	Windows2008 R2/R2 SP1(x64) &Hyper-V	Direct/ via switch	PG-LND201/ PG-LND203/ S26361-F3451-L1/ S26361-F3331-L1	15.8.1 or later	OS bundled	EMPD V2.0L18 or later Note 3	WSFC	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	MSDSM Note 3	WSFC	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
		Direct/ via switch	PG-LND201/ PG-LND203/ S26361-F3451-L1/ S26361-F3331-L1	15.8.1 or later	OS bundled	EMPD V2.0L18 or later Note 3	OracleRAC 11gR2 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	MSDSM Note 3	OracleRAC 11gR2 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
		Direct/ via switch	PG-LND204/ S26361-F3997-L1	15.8.1 or later	OS bundled	EMPD V2.0L18 or later Note 3	WSFC	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	MSDSM Note 3	WSFC	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
				16.3 or later	OS bundled	EMPD V2.0L18 or later Note 3	EXPRESSCLUSTER X 3.1 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	MSDSM Note 3	EXPRESSCLUSTER X 3.1 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
				16.8 or later	OS bundled	EMPD V2.0L19 or later Note 3	Lifekeeper	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
					OS bundled	MSDSM Note 3	Lifekeeper	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
	Hyper-V, Standard/Enterprise/ Datacenter, HPC	Direct/ via switch	On board LAN	V15.1.2 or later	OS bundled	EMPD V2.0L15 or later Note 3	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
						MSDSM Note 3	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
						EMPD V2.0L15 or later Note 3	OracleRAC 11gR2 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
						MSDSM Note 3	OracleRAC 11gR2 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	Onboard CNA(BE3) PY-CND02 PYBCND021 PYBCND022 S26361-F3592-L532 S26361-F3592-E532	V2.74.009 or later	OS bundled	EMPD V2.0L19 or later Note 3	WSFC	Yes (please refer to "Instruction for use")	Supported (V20L16 or later)	Supported (V10L40 or later)	- Only the onboard Emulex CNA(BE3) is supported. - iSCSI boot is supported only for iSCSI Hardware Initiator - Server View is required.
						MSDSM Note 3	WSFC	Yes (please refer to "Instruction for use")	Supported (V20L16 or later)	Supported (V10L40 or later)	

Note 3 : When using EMPD on Windows Server 2008 R2, please apply KB2522766. When using MSDSM on Windows Server 2008 R2, please apply KB2522766.

Windows Server 2008 R2 x64 Editions (64-bit version)	OS	Connection type	NIC or HBA	Driver version	Microsoft iSCSI Software Initiator version	Path Failover	System Configuration WSFC	iSCSI boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
Other Companies' Servers	Hyper-V, Standard/Enterprise/ Datacenter, HPC	Direct/ via switch	Intel PRO/1000MT	9.13.12.0 9.13.16.0 9.13.41.0	OS bundled	EMPD V2.0L16 or later Note 3	WSFC	No	Supported (V20L10 or later)	Planned 2	
						EMPD V2.0L18 or later Note 3	WSFC	No	Supported (V20L10 or later)	Supported (V10L45 or later)	
						MSDSM Note 3	WSFC	No	Supported (V20L10 or later)	Supported (V10L45 or later)	
						EMPD V2.0L18 or later Note 3	OracleRAC 11gR2 or later	No	Supported (V20L10 or later)	Supported (V10L45 or later)	
						MSDSM Note 3	OracleRAC 11gR2 or later	No	Supported (V20L10 or later)	Supported (V10L45 or later)	
	Windows2008 R2 SP1 Hyper-V, Standard/Enterprise/Datacenter, HPC	Direct/ via switch	Intel PRO/1000 PT/ Intel PRO/1000 PF	15.3 or later	OS bundled	EMPD V2.0L16 or later Note 3	WSFC	No	Supported (V20L10 or later)	Planned 2	
				15.8.1 or later	OS bundled	MSDSM Note 3	WSFC	No	Supported (V20L10 or later)	Supported (V10L45 or later)	
						EMPD V2.0L18 or later Note 3	WSFC	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
						MSDSM Note 3	WSFC	No	Supported (V20L10 or later)	Supported (V10L23 or later)	
				15.8.1 or later	OS bundled	EMPD V2.0L18 or later Note 3	OracleRAC 11gR2 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
						MSDSM Note 3	OracleRAC 11gR2 or later	No	Supported (V20L10 or later)	Supported (V10L23 or later)	
		Direct/ via switch	Intel Ethernet I350T2 Intel Ethernet I350T4		OS bundled	EMPD V2.0L19 or later Note 3	WSFC	No	Supported (V20L14 or later)	Supported (V10L45 or later)	
						MSDSM Note 3	WSFC	No	Supported (V20L14 or later)	Supported (V10L45 or later)	
						EMPD V2.0L19 or later Note 3	OracleRAC 11gR2 or later	No	Supported (V20L14 or later)	Supported (V10L45 or later)	
						MSDSM Note 3	OracleRAC 11gR2 or later	No	Supported (V20L14 or later)	Supported (V10L45 or later)	
		Direct/ via switch	Intel Ethernet I340 Server Adapter	15.3 or later	OS bundled	EMPD V2.0L16 or later Note 3	WSFC	No	Supported (V20L10 or later)	Planned 2	
						EMPD V2.0L18 or later Note 3	WSFC	No	Supported (V20L10 or later)	Supported (V10L45 or later)	
						MSDSM Note 3	WSFC	No	Supported (V20L10 or later)	Supported (V10L45 or later)	
						EMPD V2.0L18 or later Note 3	OracleRAC 11gR2 or later	No	Supported (V20L10 or later)	Supported (V10L45 or later)	
						MSDSM Note 3	OracleRAC 11gR2 or later	No	Supported (V20L10 or later)	Supported (V10L45 or later)	
	Windows2008 R2/R2 SP1 Hyper-V, Standard/Enterprise/Datacenter, HPC	Direct/ via switch	Intel Gigabit ET/ET2/EF	15.8.1 or later	OS bundled	EMPD V2.0L18 or later Note 3	WSFC	No	Supported (V20L14 or later)	Supported (V10L12 or later)	
						MSDSM Note 3	WSFC	No	Supported (V20L14 or later)	Supported (V10L23 or later)	
						EMPD V2.0L18 or later Note 3	OracleRAC 11gR2 or later	No	Supported (V20L14 or later)	Supported (V10L12 or later)	
						MSDSM Note 3	OracleRAC 11gR2 or later	No	Supported (V20L14 or later)	Supported (V10L23 or later)	
		Direct/ via switch	Broadcom 5708S	OS bundled	OS bundled	EMPD V2.0L18 or later Note 3	WSFC	No	Planned 2	Supported (V10L12 or later)	
						MSDSM Note 3	WSFC	No	Planned 2	Supported (V10L23 or later)	
						EMPD V2.0L18 or later Note 3	OracleRAC 11gR2 or later	No	Planned 2	Supported (V10L12 or later)	
						MSDSM Note 3	OracleRAC 11gR2 or later	No	Planned 2	Supported (V10L23 or later)	
		Direct/ via switch	Intel 10 Gigabit XF	15.8.1 or later	OS bundled	EMPD V2.0L18 or later Note 3	WSFC	No	Supported (V20L14 or later)	Supported (V10L12 or later)	
						MSDSM Note 3	WSFC	No	Supported (V20L14 or later)	Supported (V10L23 or later)	
						EMPD V2.0L18 or later Note 3	OracleRAC 11gR2 or later	No	Supported (V20L14 or later)	Supported (V10L12 or later)	
						MSDSM Note 3	OracleRAC 11gR2 or later	No	Supported (V20L14 or later)	Supported (V10L23 or later)	

Note 3 : When using EMPD on Windows Server 2008 R2, please apply KB2522766. When using MSDSM on Windows Server 2008 R2, please apply KB2522766.

Windows Server 2008 R2 x64 Editions (64-bit version)	OS	Connection type	NIC or HBA	Driver version	Microsoft iSCSI Software Initiator version	Path Failover	System Configuration WSFC	iSCSI boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
Other Companies' Servers	Windows2008 R2/R2 SP1 Hyper-V, Standard/Enterprise/Datacenter, HPC	Direct/ via switch	Intel Ethernet X540	-	OS bundled	EMPD V2.0L19 or later Note 3	WSFC	No	Supported (V20L16 or later)	Supported (V10L45 or later)	
						MSDSM Note 3	WSFC	No	Supported (V20L16 or later)	Supported (V10L45 or later)	
						EMPD V2.0L19 or later Note 3	OracleRAC 11gR2 or later	No	Supported (V20L16 or later)	Supported (V10L45 or later)	
						MSDSM Note 3	OracleRAC 11gR2 or later	No	Supported (V20L16 or later)	Supported (V10L45 or later)	
		Direct/ via switch	Intel Ethernet X520	15.8.1 or later	OS bundled	EMPD V2.0L18 or later Note 3	WSFC	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
						MSDSM Note 3	WSFC	No	Supported (V20L14 or later)	Supported (V10L23 or later)	
				16.3 or later	OS bundled	EMPD V2.0L18 or later Note 3	EXPRESSCLUSTER X 3.1 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
						MSDSM Note 3	EXPRESSCLUSTER X 3.1 or later	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
				16.8 or later	OS bundled	EMPD V2.0L19 or later Note 3	Lifekeeper	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
						MSDSM Note 3	Lifekeeper	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
				16.8 or later	OS bundled	EMPD V2.0L19 or later Note 3	OracleRAC 11gR2 or later	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
						MSDSM Note 3	OracleRAC 11gR2 or later	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
	Hyper-V, Standard/Enterprise/ Datacenter, SP2, HPC	Direct / via switch	HP: NC373T, NC382T	5.2.22.0	OS bundled	EMPD V2.0L17 or later Note 3	WSFC	No	Supported (V20L10 or later)	Planned 2	
						MSDSM Note 3	WSFC	No	Supported (V20L10 or later)	Planned 2	
	Hyper-V, Standard/Enterprise/ Datacenter, SP2, HPC	Direct / via switch	HP: NC112T	11.7.32.0	OS bundled	EMPD V2.0L17 or later Note 3	WSFC	No	Supported (V20L10 or later)	Planned 2	
						MSDSM Note 3	WSFC	No	Supported (V20L10 or later)	Planned 2	
	Hyper-V, Standard/Enterprise/ Datacenter, SP2, HPC	Direct / via switch	HP: NC375T	4.0.534.138	OS bundled	EMPD V2.0L17 or later Note 3	WSFC	No	Supported (V20L10 or later)	Planned 2	
						MSDSM Note 3	WSFC	No	Supported (V20L10 or later)	Planned 2	
	Hyper-V/ Standard/Datacenter	Direct/ via switch	Onboard CNA(BE3) OCe11102	-	-	EMPD V2.0L19 or later Note 3	WSFC	Yes (please refer to "Instruction for use")	Supported (V20L15 or later)	Supported (V10L40 or later)	- Only the onboard Emulex CNA(BE3) is supported - iSCSI boot is supported only for iSCSI Hardware Initiator
						MSDSM Note 3	WSFC	Yes (please refer to "Instruction for use")	Supported (V20L15 or later)	Supported (V10L40 or later)	

Note 3 : When using EMPD on Windows Server 2008 R2, please apply KB2522766. When using MSDSM on Windows Server 2008 R2, please apply KB2522766.

Windows Server 2008 (IA32, EM64T)	OS	Connection type	NIC or HBA	Driver version	Microsoft iSCSI Software Initiator version	Path Failover	System Configuration WSFC	iSCSI boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMEQUEST 1000 series (PQ1400S/1400E/1400L/ 1800E/1800L only)	Hyper-V, Standard/Enterprise/ Datacenter, SP2,	Direct/ via switch	LAN port on [I/O unit] (On board)/ MC-QJGE11/ MC-QJGE1L	V15.1.2 or later	OS bundled	EMPD V2.0L16 or later	WSFC	No	Supported (V20L10 or later)	N.A.	
		Direct/ via switch		15.8.1 or later	OS bundled	EMPD V2.0L18 or later	WSFC	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
PRIMEQUEST 1000 series (PQ1400S2/1400E2/1400L2/ 1800E2/1800L2 only)	Hyper-V, Standard/Enterprise/ Datacenter, SP2	Direct/ via switch	LAN port on [I/O unit] (On board)/ MC-QJGE31/MC-QJGE3L	15.8.1 or later	OS bundled	EMPD V2.0L18 or later	WSFC	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
		Direct/ via switch	MC-QJXE11	15.8.1 or later	OS bundled	EMPD V2.0L18 or later	WSFC	No	Planned 2	Planned 2	
PRIMERGY	Hyper-V, Standard/Enterprise/ Datacenter, without SP or SP2, HPC(HPC is 64bit only)	Direct/ via switch		OS bundled	OS bundled	EMPD V2.0L15 or later Note 2	WSFC	Yes	Supported (V20L10 or later)	N.A.	Please apply OS patch KB953652.
						MSDSM Note 2	WSFC	Yes	Supported (V20L10 or later)	N.A.	
	Hyper-V, Standard/Enterprise/ Datacenter, SP2, HPC(HPC is 64bit only)	Direct/ via switch		V15.1.2 or later	OS bundled	EMPD V2.0L15 or later Note 2	WSFC	No	Supported (V20L10 or later)	N.A.	Please apply OS patch KB953652.
						MSDSM Note 2	WSFC	No	Supported (V20L10 or later)	N.A.	
	Hyper-V, Standard/Enterprise/ Datacenter, without SP or SP2, HPC(HPC is 64bit only)	Direct/ via switch	PG-288/PG-288L/ PG-289/PG-289L/ PG-2861/PG-2861L/ S26361-F3241-L1/ S26361-F3241-L201/ S26361-F3228-L1/ S26361-F3228-L201/ PY-LAD04/PYBLAD041/ PYBLAD042	15.8.1 or later	OS bundled	EMPD V2.0L18 or later Note 2	WSFC	No	Supported (V20L14 or later)	Supported (V10L12 or later)	
						MSDSM Note 2	WSFC	No	Supported (V20L14 or later)	Supported (V10L12 or later)	
				16.3 or later	OS bundled	EMPD V2.0L18 or later Note 2	EXPRESSCLUSTER X 3.1 or later	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
						MSDSM Note 2	EXPRESSCLUSTER X 3.1 or later	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
				16.8 or later	OS bundled	EMPD V2.0L19 or later Note 2	Lifekeeper	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
						MSDSM Note 2	Lifekeeper	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
		Direct/ via switch	PG-2871/ PY-LA234 S26361-F3611-L501	15.8.1 or later	OS bundled	EMPD V2.0L18 or later Note 2	WSFC	No	Supported (V20L14 or later)	Supported (V10L12 or later)	
						MSDSM Note 2	WSFC	No	Supported (V20L14 or later)	Supported (V10L12 or later)	
				16.3 or later	OS bundled	EMPD V2.0L18 or later Note 2	EXPRESSCLUSTER X 3.1 or later	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
						MSDSM Note 2	EXPRESSCLUSTER X 3.1 or later	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
				16.8 or later	OS bundled	EMPD V2.0L19 or later Note 2	Lifekeeper	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
						MSDSM Note 2	Lifekeeper	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
		Direct/ via switch	PG-285/PG-285L PGB285/PGB285L PY-LA101/PY-LA101L PYBLA101/PYBLA101L S26361-F3516-L1/L201 S26361-F3516-E1/E201	15.8.1 or later	OS bundled	EMPD V2.0L18 or later Note 2	WSFC	No	Supported (V20L14 or later)	Supported (V10L12 or later)	
						MSDSM Note 2	WSFC	No	Supported (V20L14 or later)	Supported (V10L12 or later)	
				16.3 or later	OS bundled	EMPD V2.0L18 or later Note 2	EXPRESSCLUSTER X 3.1 or later	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
						MSDSM Note 2	EXPRESSCLUSTER X 3.1 or later	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
				16.8 or later	OS bundled	EMPD V2.0L19 or later Note 2	Lifekeeper	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
						MSDSM Note 2	Lifekeeper	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
		Direct/ via switch	PG-2862/ PY-LA222 S26361-F3610-L502	15.8.1 or later	OS bundled	EMPD V2.0L18 or later Note 2	WSFC	No	Supported (V20L14 or later)	Supported (V10L12 or later)	
						MSDSM Note 2	WSFC	No	Supported (V20L14 or later)	Supported (V10L12 or later)	
				16.3 or later	OS bundled	EMPD V2.0L18 or later Note 2	EXPRESSCLUSTER X 3.1 or later	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
						MSDSM Note 2	EXPRESSCLUSTER X 3.1 or later	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
				16.8 or later	OS bundled	EMPD V2.0L19 or later Note 2	Lifekeeper	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
						MSDSM Note 2	Lifekeeper	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
		Direct/ via switch	PG-284G/PG-284GL (PG-2841G(L)/ PGB284G/PGB284GL PY-LA242/PYBLA242/ PYBLA242L/ S26361-F3555-L501	15.8.1 or later	OS bundled	EMPD V2.0L18 or later Note 2	WSFC	No	Supported (V20L14 or later)	Supported (V10L12 or later)	
						MSDSM Note 2	WSFC	No	Supported (V20L14 or later)	Supported (V10L12 or later)	
				16.3 or later	OS bundled	EMPD V2.0L18 or later Note 2	EXPRESSCLUSTER X 3.1 or later	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
						MSDSM Note 2	EXPRESSCLUSTER X 3.1 or later	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
				16.8 or later	OS bundled	EMPD V2.0L19 or later Note 2	Lifekeeper	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
						MSDSM Note 2	Lifekeeper	No	Supported (V20L13 or later)	Supported (V10L35 or later)	

Note 2: When using EMPD on Windows Server 2008 without SP, please apply KB952779 & KB2522766. When using MSDSM on Windows Server 2008 without SP, please apply KB967752, KB952779 & KB2522766.

Windows Server 2008 (IA32, EM64T)	OS	Connection type	NIC or HBA	Driver version	Microsoft iSCSI Software Initiator version	Path Failover	System Configuration WSFC	iSCSI boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	Hyper-V, Standard/Enterprise, without SP or SP2, HPC(HPC is 64bit only)	Direct/ via switch	PG-LND201/ PG-LND203/ S26361-F3451-L1/ S26361-F3331-L1	OS bundled	OS bundled	EMPD V2.0L15 or later Note 2	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Please apply OS patch KB953652.
						MSDSM Note 2	WSFC	Yes	Supported (V20L10 or later)	Planned 2	
	Hyper-V, Standard/Enterprise/ Datacenter, without SP or SP2, HPC(HPC is 64bit only)	Direct/ via switch	PY-LA232/PYBLA232U PY-LA244/PYBLA244U S26361-F3740-L501/E701 S26361-F3739-L501/E701	V17.2 or later	OS bundled	EMPD V2.0L19 or later Note 2	WSFC	No	Supported (V20L14 or later)	Supported (V10L45 or later)	
						MSDSM Note 2	WSFC	No	Supported (V20L14 or later)	Supported (V10L45 or later)	
	Hyper-V, Standard/Enterprise, without SP or SP2, HPC(HPC is 64bit only)	Direct/ via switch	PG-LND204/ S26361-F3997-L1	15.8.1 or later	OS bundled	EMPD V2.0L18 or later Note 2	WSFC	No	Supported (V20L14 or later)	Supported (V10L12 or later)	
						MSDSM Note 2	WSFC	No	Supported (V20L14 or later)	Supported (V10L12 or later)	
				16.3 or later	OS bundled	EMPD V2.0L18 or later Note 2	EXPRESSCLUSTER X 3.1 or later	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
						MSDSM Note 2	EXPRESSCLUSTER X 3.1 or later	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
				16.8 or later	OS bundled	EMPD V2.0L19 or later Note 2	Lifekeeper	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
						MSDSM Note 2	Lifekeeper	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
	Hyper-V, Standard/Enterprise, without SP or SP2, HPC(HPC is 64bit only)	Direct/ via switch	On board LAN	15.8.1 or later	OS bundled	EMPD V2.0L18 or later Note 2	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
						MSDSM Note 2	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
	Hyper-V, Standard/Enterprise/ Datacenter, without SP or SP2, HPC(HPC is 64bit only)	Direct/ via switch	Intel PRO/1000 PT	OS bundled	OS bundled	MSDSM Note 2	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Please apply OS patch KB953652.
		Direct/ via switch	Intel PRO/1000 MT	OS bundled	OS bundled	MSDSM Note 2	WSFC	No	Supported (V20L10 or later)	Planned 2	Please apply OS patch KB953652.
		Direct/ via switch	Broadcom 5708S	OS bundled	OS bundled	MSDSM Note 2	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Please apply OS patch KB953652.

Note 2: When using EMPD on Windows Server 2008 without SP, please apply KB952779 & KB2522766. When using MSDSM on Windows Server 2008 without SP, please apply KB967752, KB952779 & KB2522766.

Windows Server 2008 (IA32, EM64T)	OS	Connection type	NIC or HBA	Driver version	Microsoft iSCSI Software Initiator version	Path Failover	System Configuration WSFC	iSCSI boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
Other Companies' Servers	Hyper-V, Standard/Enterprise/ Datacenter, without SP or SP2, HPC(HPC is 64bit only)	Direct / via switch	Intel PRO/1000 PT	OS bundled	OS bundled	EMPD V2.0L15 or later Note 2	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Please apply OS patch KB953652.
						EMPD V2.0L18 or later Note 2	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L45 or later)	Please apply OS patch KB953652.
				OS bundled	OS bundled	MSDSM Note 2	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L45 or later)	Please apply OS patch KB953652.
						EMPD V2.0L16 or later Note 2	WSFC	Yes	Supported (V20L10 or later)	Planned 2	Please apply OS patch KB953652.
				9.13.16.0 9.13.41.0	OS bundled	EMPD V2.0L18 or later Note 2	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L45 or later)	Please apply OS patch KB953652.
						MSDSM Note 2	WSFC	Yes	Supported (V20L10 or later)	Supported (V10L45 or later)	Please apply OS patch KB953652.
	Hyper-V, Standard/Enterprise/ Datacenter, without SP or SP2, HPC(HPC is 64bit only)	Direct / via switch	Intel PRO/1000 PT	15.8.1 or later	OS bundled	EMPD V2.0L18 or later Note 2	WSFC	No	Supported (V20L14 or later)	Supported (V10L12 or later)	
						MSDSM Note 2	WSFC	No	Supported (V20L14 or later)	Supported (V10L23 or later)	
	Hyper-V, Standard/Enterprise/ Datacenter, without SP or SP2, HPC(HPC is 64bit only)	Direct / via switch	Intel Ethernet I350T2 Intel Ethernet I350T4	-	OS bundled	EMPD V2.0L19 or later	WSFC	No	Supported (V20L14 or later)	Supported (V10L45 or later)	
						MSDSM Note 2	WSFC	No	Supported (V20L14 or later)	Supported (V10L45 or later)	
	Hyper-V, Standard/Enterprise/ Datacenter, without SP or SP2, HPC(HPC is 64bit only)	Direct / via switch	Intel Gigabit ET/ET2/EF	15.8.1 or later	OS bundled	EMPD V2.0L18 or later Note 2	WSFC	No	Supported (V20L14 or later)	Supported (V10L12 or later)	
						MSDSM Note 2	WSFC	No	Supported (V20L14 or later)	Supported (V10L23 or later)	
		Direct / via switch	Broadcom 5708S	OS bundled	OS bundled	EMPD V2.0L18 or later Note 2	WSFC	No	Planned 2	Supported (V10L12 or later)	
						MSDSM Note 2	WSFC	No	Planned 2	Supported (V10L23 or later)	
		Direct / via switch	Intel 10 Gigabit XF	15.8.1 or later	OS bundled	EMPD V2.0L18 or later Note 2	WSFC	No	Supported (V20L14 or later)	Supported (V10L12 or later)	
						MSDSM Note 2	WSFC	No	Supported (V20L14 or later)	Supported (V10L23 or later)	
		Direct / via switch	Intel Ethernet X520	15.8.1 or later	OS bundled	EMPD V2.0L18 or later Note 2	WSFC	No	Supported (V20L14 or later)	Supported (V10L12 or later)	
						MSDSM Note 2	WSFC	No	Supported (V20L14 or later)	Supported (V10L23 or later)	
				16.3 or later	OS bundled	EMPD V2.0L18 or later Note 2	EXPRESSCLUSTER X 3.1 or later	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
						MSDSM Note 2	EXPRESSCLUSTER X 3.1 or later	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
				16.8 or later	OS bundled	EMPD V2.0L19 or later Note 2	Lifekeeper	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
						MSDSM Note 2	Lifekeeper	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
	Hyper-V, Standard/Enterprise/ Datacenter, without SP or SP2, HPC(HPC is 64bit only)	Direct / via switch	HP: NC112T	11.7.32.0	OS bundled	EMPD V2.0L17 or later Note 2	WSFC	No	Supported (V20L10 or later)	Planned 2	
						MSDSM Note 2	WSFC	No	Supported (V20L10 or later)	Planned 2	
	Hyper-V, Standard/Enterprise/ Datacenter, without SP or SP2, HPC(HPC is 64bit only)	Direct / via switch	HP: NC375T	4.0.534.138	OS bundled	EMPD V2.0L17 or later Note 2	WSFC	No	Supported (V20L10 or later)	Planned 2	
						MSDSM Note 2	WSFC	No	Supported (V20L10 or later)	Planned 2	

Note 2: When using EMPD on Windows Server 2008 without SP, please apply KB952779 & KB2522766. When using MSDSM on Windows Server 2008 without SP, please apply KB967752, KB952779 & KB2522766.

Notes

- For each Operating System, Path Failover software, Cluster System software, please apply necessary patches which are suggested by the product suppliers.
- If multipath configuration is supported, then single path configuration is also supported. But multipath configuration may be mandatory because of cluster requirement.

SAS connection

Windows Server 2012R2 x64 Editions (64-bit version)	OS	Connected Type	Bus	HBA				Path Failover	Cluster system	Boot	Model		Instruction for use
				model name	BIOS version	Firmware version	Driver version				DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	Standard/Datacenter	Direct	PCI-Express	PY-SC1Y0/PYBSC1Y0 PY-SC1Y0U/PYBSC1Y0L S26361-F3271-L1/E1/L201/E201	-	-	OS bundled (Storport Miniport driver)	EMPD V2.0L20 or later	WSFC	No	Planned 2	Planned 2	
								MSDSM	WSFC	No	Planned 2	Planned 2	
	Hyper-V/ Standard/Datacenter	SW-Blade	PCI-Express	PY-SCD08/PYBSCD082 S26361-F4480-L1/E1	-	-	OS bundled (Storport Miniport driver)	EMPD V2.0L20 or later	WSFC	No	N.A.	Supported (V10L50 or later)	
								MSDSM	WSFC	No	N.A.	Supported (V10L50 or later)	
	Hyper-V/ Standard/Datacenter	Direct	PCI-Express	PY-SC220/PYBSC220/ PYBSC220L S26361-F3628-L501/E1/E201	-	-	OS bundled (Storport Miniport driver)	EMPD V2.0L20 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
								MSDSM	WSFC	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
	Hyper-V/ Standard/Datacenter	Direct	PCI-Express	PY-SC3FE S26361-F3845-L501	-	-	OS bundled (Storport Miniport driver)	EMPD V2.0L20 or later	WSFC	No	N.A.	Supported (V10L60 or later)	
								MSDSM	WSFC	No	N.A.	Supported (V10L60 or later)	
Other Companies' Servers	Hyper-V/ Essentials/Standard/ Datacenter	Direct	PCI-Express	LSISAS3442E-R	-	-	OS bundled (Storport Miniport driver)	EMPD V2.0L20 or later	WSFC	No	Planned 1 2013.11	Planned 1 2013.11	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct	PCI-Express	LSI SAS9200-8e	-	-	OS bundled (Storport Miniport driver)	EMPD V2.0L20 or later	WSFC	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
		Switch (LSI SAS6160/6161)	PCI-Express		-	-	OS bundled (Storport Miniport driver)	EMPD V2.0L20 or later	WSFC	No	N.A.	Supported (V10L50 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct	PCI-Express	LSI SAS9300-8e	-	-	OS bundled (Storport Miniport driver)	EMPD V2.0L20 or later	WSFC	No	N.A.	Supported (V10L60 or later)	
								MSDSM	WSFC	No	N.A.	Supported (V10L60 or later)	

Windows Server 2012 x64 Editions (64-bit version)	OS	Connected Type	Bus	HBA				Path Failover	Cluster system	Boot	Model		Instruction for use
				model name	BIOS version	Firmware version	Driver version				DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	Hyper-V/ Standard/Datacenter	Direct	PCI-Express	PY-SC1Y0/PYBSC1Y0 PY-SC1Y0U/PYBSC1Y0L S26361-F3271-L1/E1/L201/E201	6.30.00.00 or later	1.30.41.00-IT or later	OS bundled (Storport Miniport driver)	EMPD V2.0L19 or later	WSFC	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
								MSDSM	WSFC	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
	Hyper-V/ Standard/Datacenter	SW-Blade	PCI-Express	PY-SCD08/PYBSCD082 S26361-F4480-L1/E1	7.11.00.00 or later	7.00.00.00-IT or later	OS bundled (Storport Miniport driver)	EMPD V2.0L19 or later	WSFC	No	N.A.	Supported (V10L50 or later)	
								MSDSM	WSFC	No	N.A.	Supported (V10L50 or later)	
	Hyper-V/ Standard/Datacenter	Direct	PCI-Express	PY-SC220/PYBSC220/ PYBSC220L S26361-F3628-L501/E1/E201	7.07.00.00 or later	5.00.13.00-IT or later	OS bundled (Storport Miniport driver)	EMPD V2.0L19 or later	WSFC	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
								MSDSM	WSFC	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
	Hyper-V/ Standard/Datacenter	Direct	PCI-Express	PY-SC3FE S26361-F3845-L501	See Instruction for use	See Instruction for use	OS bundled (Storport Miniport driver)	EMPD V2.0L20 or later	WSFC	No	N.A.	Supported (V10L60 or later)	
								MSDSM	WSFC	No	N.A.	Supported (V10L60 or later)	
Other Companies' Servers	Hyper-V/ Essentials/Standard/ Datacenter	Direct	PCI-Express	LSISAS3442E-R	6.30.00.00 or later	1.30.41.00-IT or later	OS bundled (Storport Miniport driver)	EMPD V2.0L19 or later	WSFC	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct	PCI-Express	LSI SAS9200-8e	7.07.00.00 or later	5.00.13.00-IT or later	OS bundled (Storport Miniport driver)	EMPD V2.0L19 or later	WSFC	No	Supported (V20L12 or later)	Supported (V10L35 or later)	
		Switch (LSI SAS6160/6161)	PCI-Express	LSI SAS9200-8e	7.07.00.00 or later	5.00.13.00-IT or later	OS bundled (Storport Miniport driver)	EMPD V2.0L19 or later	WSFC	No	N.A.	Supported (V10L35 or later)	
	Hyper-V/ Essentials/Standard/ Datacenter	Direct	PCI-Express	LSI SAS9300-8e	See Instruction for use	See Instruction for use	OS bundled (Storport Miniport driver)	EMPD V2.0L20 or later	WSFC	No	N.A.	Supported (V10L60 or later)	
								MSDSM	WSFC	No	N.A.	Supported (V10L60 or later)	
													- Please use BIOS/Firmware/Driver which are supported by server vendor and HBA vendor.

Windows Server 2008 R2 x64 Editions (64-bit version)	OS	Connected Type	Bus	HBA				Path Failover	Cluster system	Boot	Model		Instruction for use
				model name	BIOS version	Firmware version	Driver version				DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	Windows Server 2008 R2 Standard, Enterprise, DataCenter, HPC	Direct	PCI-Express	PG-228B/PG-228BL/ S26361-F3271-L1/ S26361-F3271-L201/ PY-SC1Y0	6.26.00.00	1.27.41.00-IT	OS bundled (Storport Miniport driver)	EMPD V2.0L16 or later Note 3	WSFC	No	Supported (V20L10 or later)	N.A.	Host Affinity function can not be used. Please disable Host Affinity function.
					6.30.00.00	1.30.40.00-IT					Supported (V20L10 or later)		
	6.30.00.00				1.30.40.00-IT	1.28.3.52	EMPD V2.0L16 or later Note 3	WSFC	No	Supported (V20L10 or later)	N.A.		
	6.30.00.00				1.30.41.00-IT	1.32.00.04	EMPD V2.0L18 or later Note 3	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)		
	Direct	PCI-Express	PG-22DC/PG-22DCL/ PY-SC220 S26361-F3628-L501	7.07.00.00	5.00.13.00-IT	2.00.35	EMPD V2.0L18 or later Note 3	-	No	Supported (V20L13 or later)	Supported (V10L11 or later)		
								WSFC	No	Supported (V20L13 or later)	Supported (V10L12 or later)		
	SW-Blade	PCI-Express	PY-SCD08/PYBSCD082 S26361-F4480-L1/E1	7.11.00.00 or later	7.00.00.00-IT or later	OS bundled (Storport Miniport ドライバ)	EMPD V2.0L20 or later Note 3	WSFC	No	N.A.	Supported (V10L50 or later)		
							MSDSM Note 3	WSFC	No	N.A.	Supported (V10L50 or later)		
	Direct	PCI-Express	PY-SC3FE S26361-F3845-L501	See Instruction for use	See Instruction for use	OS bundled (Storport Miniport ドライバ)	EMPD V2.0L20 or later Note 3	WSFC	No	N.A.	Supported (V10L60 or later)		
							MSDSM Note 3	WSFC	No	N.A.	Supported (V10L60 or later)		
	Other Companies' Servers	Windows Server 2008 R2 Standard, Enterprise, DataCenter, HPC	Direct	PCI-Express	LSISAS3442E-R	6.26.00.00	1.27.41.00-IT	OS bundled (Storport Miniport driver)	EMPD V2.0L16 or later Note 3	WSFC	No	Supported (V20L10 or later)	N.A.
6.30.00.00						1.30.40.00	Supported (V20L10 or later)						
6.30.00.00		1.30.40.00				1.28.3.52	EMPD V2.0L16 or later Note 3	WSFC	No	Supported (V20L10 or later)	N.A.		
6.34.00.00		1.32.00.00				1.34.02	EMPD V2.0L18 or later Note 3	-	No	Planned 2	Supported (V10L11 or later)		
Direct		PCI-Express	LSISAS3442E-R	6.30.00.00	1.30.41.00-IT	1.32.00.03	EMPD V2.0L18 or later Note 3	WSFC	No	Supported (V20L10 or later)	Supported (V10L11 or later)		
							MSDSM Note 3	WSFC	No	Supported (V20L10 or later)	Supported (V10L12 or later)		
Direct		PCI-Express	LSI SAS9200-8e	7.17.00.00	9.00.00.00	2.00.42	EMPD V2.0L18 or later Note 3	-	No	Supported (V20L13 or later)	Supported (V10L11 or later)		
								WSFC	No	Supported (V20L13 or later)	Supported (V10L12 or later)		
Switch (LSI SAS6160/6161)		PCI-Express	LSI SAS9200-8e	7.17.00.00	9.00.00.00	2.00.42	EMPD V2.0L18 or later Note 3	-	No	N.A.	Supported (V10L11 or later)		
								WSFC	No	N.A.	Supported (V10L12 or later)		
Direct		PCI-Express	LSI SAS9300-8e	See Instruction for use	See Instruction for use	2.00.42	EMPD V2.0L18 or later Note 3	-	No	N.A.	Supported (V10L11 or later)		
								WSFC	No	N.A.	Supported (V10L12 or later)		

Note 3 : When using EMPD on Windows Server 2008 R2, please apply KB2522766. When using MSDSM on Windows Server 2008 R2, please apply KB2522766.

Windows Server 2008 (IA32, EM64T)	OS	Connected Type	Bus	HBA				Path Failover	Cluster system	Boot	Model		Instruction for use
				model name	BIOS version	Firmware version	Driver version				DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	Hyper-V, Standard/Enterprise/ Datacenter, without SP or SP2	Direct	PCI-Express	PG-228B/PG-228BL/ S26361-F3271-L1/ S26361-F3271-L201/ PY-SC1Y0	6.26.00.00	1.27.41.00-IT	1.29.3.0 (Storport Miniport driver)	EMPD V2.0L15 or later Note 2	WSFC	No	Supported (V20L10 or later)	N.A.	Host Affinity function can not be used. Please disable Host Affinity function.
	6.30.00.00				1.30.40.00-IT	OS bundled (Storport Miniport driver)	MSDSM Note 2	Supported (V20L10 or later)					
							EMPD V2.0L16 or later Note 2	WSFC	No	Supported (V20L10 or later)	N.A.		
							MSDSM Note 2			Supported (V20L10 or later)			
	6.30.00.00	1.30.41.00-IT	1.32.00.03	EMPD V2.0L18 or later Note 2	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)					
					WSFC	No	Supported (V20L10 or later)	Supported (V10L12 or later)					
					EMPD V2.0L18 or later Note 2	-	No	Supported (V20L13 or later)	Supported (V10L11 or later)				
						WSFC	No	Supported (V20L13 or later)	Supported (V10L12 or later)				
Hyper-V, Standard/Enterprise/ Datacenter, SP2, HPC(HPC is 64bit only)	Direct	PCI-Express	PG-22DC/PG-22DCL/ PY-SC220 S26361-F3628-L501	7.07.00.00	5.00.13.00-IT	2.00.35							
Other Companies' Servers	Hyper-V, Standard/Enterprise/ Datacenter, without SP or SP2, HPC(HPC is 64bit only)	Direct	PCI-Express	LSISAS3442E-R	6.26.00.00	1.27.41.00-IT	1.29.3.0 (Storport Miniport driver)	EMPD V2.0L15 or later Note 2	WSFC	No	Supported (V20L10 or later)	N.A.	Host Affinity function can not be used. Please disable Host Affinity function.
	6.30.00.00				1.30.40.00	OS bundled (Storport Miniport driver)	MSDSM Note 2	WSFC	No	Supported (V20L10 or later)			
							EMPD V2.0L16 or later Note 2	WSFC	Yes	Supported (V20L10 or later)	N.A.		
							MSDSM Note 2			Supported (V20L10 or later)			
	Hyper-V, Standard/Enterprise/ Datacenter, SP2, HPC(HPC is 64bit only)	Direct/ switch (LSI SAS6160/6161)	6.34.00.00	1.32.00.00	1.34.02	EMPD V2.0L18 or later Note 2	-	No	N.A.	Supported (V10L11 or later)			
							WSFC	No	N.A.	Supported (V10L12 or later)			
		Direct	6.30.00.00	1.30.41.00-IT	1.32.00.03	EMPD V2.0L18 or later Note 2	WSFC	No	Supported (V20L10 or later)	Supported (V10L11 or later)			
						MSDSM Note 2	WSFC	No	Supported (V20L10 or later)	Supported (V10L12 or later)			
		Direct	PCI-Express	LSI SAS9200-8e	7.17.00.00	9.00.00.00	2.00.42	EMPD V2.0L18 or later Note 2	-	No	Supported (V20L13 or later)	Supported (V10L11 or later)	
									WSFC	No	Supported (V20L13 or later)	Supported (V10L12 or later)	
	Switch (LSI SAS6160/6161)	PCI-Express	LSI SAS9200-8e	7.17.00.00	9.00.00.00	2.00.42	EMPD V2.0L18 or later Note 2	-	No	N.A.	Supported (V10L11 or later)		
								WSFC	No	N.A.	Supported (V10L12 or later)		

Note 2: When using EMPD on Windows Server 2008 without SP, please apply KB952779 & KB2522766. When using MSDSM on Windows Server 2008 without SP, please apply KB967752, KB952779 & KB2522766.

Notes

- For each Operating System, Path Failover software, please apply necessary patches which are suggested by the product suppliers.
- If multipath configuration is supported, then single path configuration is also supported. But multipath configuration may be mandatory because of cluster requirement.

FC-FCoE(switch) connection : This sheet is for the system of connection of Server(CNA card) -- FCoE switch - ETERNUS FC port.

Windows Server 2012R2 x64 Editions (64-bit version)	OS	Connection type			HBA				Path Failover	System Configuration MSCS	SAN boot	Model		Instruction for use
		via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6730, NOS v2.1.1)	via Switch Cisco Nexus5000	model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE driver version				DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	Standard/Datacenter	Supported	Supported	Supported	PY-CN202 /PYBCN202 S26361-F3592-L2/E2	Note 2	Note 2	Note 2	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L52 or later)	- When using SAN boot, please ask support status to the server side.
									MSDSM	WSFC		Supported (V20L16 or later)	Supported (V10L52 or later)	
		Supported	Supported	Supported	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	Note 2	Note 2	Note 2	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L52 or later)	
									MSDSM	WSFC		Supported (V20L16 or later)	Supported (V10L52 or later)	
		Supported	Supported	Supported	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	Note 2	Note 2	Note 2	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L52 or later)	
									MSDSM	WSFC		Supported (V20L16 or later)	Supported (V10L52 or later)	
		Supported	Supported	Supported	PY-CN002 /PYBCN0021 S26361-F3592-L532 S26361-F3592-E532	Note 2	Note 2	Note 2	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L52 or later)	
									MSDSM	WSFC		Supported (V20L16 or later)	Supported (V10L52 or later)	
Other Companies' Servers	Essentials/Standard/ Datacenter	Supported	Supported	Supported	OCe10102 HP: NC551i/ NC551m CN1000E	Note 3	Note 3	Note 3	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L52 or later)	- When using SAN boot, please ask support status to the server side.
									MSDSM	WSFC		Supported (V20L16 or later)	Supported (V10L52 or later)	
		Supported	Supported	Supported	OCe14401B	Note 3	Note 3	Note 3	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L52 or later)	- When using SAN boot, please ask support status to the server side.
									MSDSM	WSFC		Supported (V20L16 or later)	Supported (V10L52 or later)	
		Supported	Supported	Supported	OCe14102	Note 3	Note 3	Note 3	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V20L16 or later)	Supported (V10L52 or later)	- When using SAN boot, please ask support status to the server side.
									MSDSM	WSFC		Supported (V20L16 or later)	Supported (V10L52 or later)	

Note 2 : Please use Please use BIOS/Firmware/Driver which are supported by PRIMERGY.

Note 3 : Please use BIOS/Firmware/Driver which are supported by server vendor and HBA vendor.

Windows Server 2012 x64 Editions (64-bit version)	OS	Connection type			HBA				Path Failover	System Configuration MSCS	SAN boot	Model		Instruction for use			
		via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6730, NOS v2.1.1)	via Switch Cisco Nexus5000	model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE driver version				DX60 S2	DX80 S2 DX90 S2				
PRIMERGY	Standard/Datacenter	Supported	Supported	Supported	PY-CN202 /PYBCN202 S26361-F3592-L2/E2	4.03a0 or later	4.2.324.6 or later	6.1.14.1(Driver Package) or later	EMPD V2.0L19 or later	WSFC	See Instruction for use	Supported (V20L14 or later)	Supported (V10L46 or later)	- When Offloaded Data Transfer(ODX) function is used, the firmware of ETERNUS DX80 S2/DX90 S2 should be upgraded to V10L40 or later, and Windows fix patch KB2796995 should be applied. http://support.microsoft.com/kb/2796995/en-us - When using SAN boot, please ask support status to the server side.			
									MSDSM	WSFC		Supported (V20L14 or later)	Supported (V10L46 or later)				
		Supported	Supported	Supported	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	Note 2	Note 2	Note 2	EMPD V2.0L19 or later	WSFC	See Instruction for use	Supported (V20L14 or later)	Supported (V10L46 or later)				
									MSDSM	WSFC		Supported (V20L14 or later)	Supported (V10L46 or later)				
		Supported	Supported	Supported	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	Note 2	Note 2	Note 2	EMPD V2.0L19 or later	WSFC	See Instruction for use	Supported (V20L14 or later)	Supported (V10L46 or later)				
									MSDSM	WSFC		Supported (V20L14 or later)	Supported (V10L46 or later)				
		Supported	Supported	Supported	PY-CND02 /PYBCND021 S26361-F3592-L532 S26361-F3592-E532	4.03a0 or later	4.2.324.6 or later	6.1.14.1(Driver Package) or later	EMPD V2.0L19 or later	WSFC	See Instruction for use	Supported (V20L14 or later)	Supported (V10L46 or later)				
									MSDSM	WSFC		Supported (V20L14 or later)	Supported (V10L46 or later)				
		Other Companies' Servers	Essentials/Standard/ Datacenter	Supported	Supported	Supported	OCe10102	4.02a4 or later	2.702.348.8 or later	OS bundled	EMPD V2.0L19 or later	WSFC	See Instruction for use		Supported (V20L12 or later)	Supported (V10L35 or later)	- When Offloaded Data Transfer(ODX) function is used, the firmware of ETERNUS DX80 S2/DX90 S2 should be upgraded to V10L40 or later, and Windows fix patch KB2796995 should be applied. http://support.microsoft.com/kb/2796995/en-us - When using SAN boot, please ask support status to the server side.
											MSDSM	WSFC			Supported (V20L12 or later)	Supported (V10L35 or later)	
Supported	Supported			Supported	OCe14401B	Note 3	Note 3	Note 3	EMPD V2.0L19 or later	WSFC	See Instruction for use	Supported (V20L12 or later)	Supported (V10L35 or later)				
									MSDSM	WSFC		Supported (V20L12 or later)	Supported (V10L35 or later)				
Supported	Supported			Supported	OCe14102	Note 3	Note 3	Note 3	EMPD V2.0L19 or later	WSFC	See Instruction for use	Supported (V20L12 or later)	Supported (V10L35 or later)				
									MSDSM	WSFC		Supported (V20L12 or later)	Supported (V10L35 or later)				

Note 2 : Please use Please use BIOS/Firmware/Driver which are supported by PRIMERGY.

Note 3 : Please use BIOS/Firmware/Driver which are supported by server vendor and HBA vendor.

Windows Server 2008 R2 x64 Editions (64-bit version)	OS	Connection type			HBA				Path Failover	System Configuration MSCS	SAN boot	Model		Instruction for use
		via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6730, NOS v2.1.1)	via Switch Cisco Nexus5000	model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE driver version				DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	Windows Server 2008 R2 SP1 Hyper-V, Standard, Enterprise, DataCenter, HPC	Supported	Supported	Supported	S26361-F3592-L2/L202/ PG-292B/ PG-292BL/ PY-CN202	4.02a4	2.702.348.8	5.2.53Build10 (Driver Package) or later/ 7.2.40.005	EMPD V2.0L18 or later Note 1	WSFC	See instruction for use	Supported (V20L10 or later)	Planned 2	- When using SAN boot, please ask support status to the server side. - Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
									EMPD V2.0L20 or later Note 1	WSFC		-	Supported (V10L52 or later)	
									MSDSM Note 1	WSFC		Supported (V20L10 or later)	Supported (V10L52 or later)	
	Windows Server 2008 R2 Standard, Enterprise, DataCenter, HPC	Supported	Supported	Planned 2	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	4.10a0	2.702.200.17	2.32.002	EMPD V2.0L16 or later Note 1	WSFC	See instruction for use	Supported (V20L10 or later)	Planned 2	
									MSDSM Note 1	WSFC		Supported (V20L10 or later)	Planned 2	
	Windows Server 2008 R2 Standard, Enterprise, DataCenter, HPC	Supported	Supported	Planned 2					EMPD V2.0L16 or later Note 1	WSFC	See instruction for use	Supported (V20L10 or later)	Supported (V10L52 or later)	
					PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	Note 2	Note 2	Note 2	EMPD V2.0L16 or later Note 1	WSFC		Supported (V20L10 or later)	Supported (V10L52 or later)	
									MSDSM Note 1	WSFC		Supported (V20L10 or later)	Supported (V10L52 or later)	
	Windows Server 2008 R2 Standard, Enterprise, DataCenter, HPC	Supported	Supported	Planned 2					EMPD V2.0L16 or later Note 1	WSFC	See instruction for use	Supported (V20L10 or later)	Supported (V10L52 or later)	
					PY-CND02 /PYBCND021 S26361-F3592-L532 S26361-F3592-E532 Onboard CAN (BE3)	See instruction for use	See instruction for use	See instruction for use	EMPD V2.0L20 or later Note 1	WSFC		Supported (V20L10 or later)	Supported (V10L52 or later)	
									MSDSM Note 1	WSFC		Supported (V20L10 or later)	Supported (V10L52 or later)	
Other Companies' Servers	Windows Server 2008 R2 SP1 Hyper-V, Standard, Enterprise, DataCenter, HPC	Supported	Supported	Supported	Emulex OCe10102 HP: NC551/NC551m CN1000E	See instruction for use	See instruction for use	See instruction for use	EMPD V2.0L18 or later Note 1	WSFC	See instruction for use	Supported (V20L10 or later)	Planned 2	- When using SAN boot, please ask support status to the server side. - Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
									EMPD V2.0L20 or later Note 1	WSFC		-	Supported (V10L52 or later)	
									MSDSM Note 1	WSFC		Supported (V20L10 or later)	Supported (V10L52 or later)	
		Supported	Supported	Supported	OCe14401B	Note 3	Note 3	Note 3	EMPD V2.0L19 or later	WSFC	See instruction for use	Supported (V20L12 or later)	Supported (V10L35 or later)	
									MSDSM	WSFC		Supported (V20L12 or later)	Supported (V10L35 or later)	
									EMPD V2.0L19 or later	WSFC	See instruction for use	Supported (V20L12 or later)	Supported (V10L35 or later)	
					OCe14102	Note 3	Note 3	Note 3	MSDSM	WSFC		Supported (V20L12 or later)	Supported (V10L35 or later)	

Note 1 : When using EMPD on Windows Server 2008 R2, please apply KB2522766. When using MSDSM on Windows Server 2008 R2, please apply KB2522766.

Note 2 : Please use Please use BIOS/Firmware/Driver which are supported by PRIMERGY.

Note 3 : Please use BIOS/Firmware/Driver which are supported by server vendor and HBA vendor.

Windows 2008 System (IA32, EM64T)	OS		Connection type			HBA				Path Failover	System Configuration MSCS	SAN boot	Model		Instruction for use
	Hyper-V Standard/Enterprise/Datacenter		via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6730, NOS v2.1.1)	via Switch Cisco Nexus5000	model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE driver version				DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	SP2, HPC(HPC is 64bit only)		Supported	Supported	Planned 2	S26361-F3592-L2/L202/ PG-292B/ PG-292BL/ PY-CN202	4.10a0	2.702.200.17	2.32.002	EMPD V2.0L16 or later Note 2	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
										MSDSM Note 2	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
Other Companies' Servers	SP2, HPC(HPC is 64bit only)		Supported	Supported	Planned 2	Emulex OCe10102 HP: NC551/NC551m CN1000E	4.10a0	2.102.200.28	2.32.002	EMPD V2.0L16 or later Note 2	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
										MSDSM Note 2	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	

Note 2: When using EMPD on Windows Server 2008 without SP, please apply KB952779 & KB2522766. When using MSDSM on Windows Server 2008 without SP, please apply KB967752, KB952779 & KB2522766.

Windows 2003 System (IA32, EM64T) *1	OS		Connection type			HBA				Path Failover	System Configuration MSCS	SAN boot	Model		Instruction for use
	Windows 2003 Standard Edition	Windows 2003 Enterprise Edition	via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6730, NOS v2.1.1)	via Switch Cisco Nexus5000	model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE driver version				DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	SP2/ R2	SP2/ R2	Supported	Supported	Planned 2	S26361-F3592-L2/L202/ PG-292B/ PG-292BL/ PY-CN202	4.10a0	2.702.200.17	2.32.002	EMPD V2.0L16 or later	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
										MSDSM	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
Other Companies' Servers	SP2/ R2	SP2/ R2	Supported	Supported	Planned 2	Emulex OCe10102 HP: NC551/NC551m CN1000E	4.10a0	2.102.200.28	2.32.002	EMPD V2.0L16 or later	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
										MSDSM	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	

Note 1: Windows Storage Server 2003 R2 is supported on the same condition of Windows Server 2003 R2. Please contact Server supplier for availability of Windows Storage Server.

Note

FCoE-FCoE(switch) connection : This sheet is for the system of connection of Server(CNA card) -- FCoE switch - ETERNUS FCoE port.

Windows Server 2016 x64 Editions (64-bit version)	OS	Connection type			HBA				Path Failover	Cluster system	SAN boot	Model	Instruction for uses
		via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6720/6730, NOS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE Driver version				DX80 S2 DX90 S2	
PRIMEQUEST 2000 series	Standard/Enterprise/ Datacenter	Supported	Supported	Supported	MC-QJCE6*/ MC-QJCE9*	See Instruction for use	See Instruction for use	See Instruction for use	EMPD V2.0L23 or later	WSFC	No	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.
									MSDSM	WSFC	No	Supported (V10L60 or later)	
PRIMERGY	Standard/Datacenter	Supported	Supported	Supported	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	See Instruction for use	See Instruction for use	See Instruction for use	EMPD V2.0L23 or later	WSFC	No	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
									MSDSM	WSFC	No	Supported (V10L60 or later)	
		Supported	Supported	Supported	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	See Instruction for use	See Instruction for use	See Instruction for use	EMPD V2.0L23 or later	WSFC	No	Supported (V10L60 or later)	
									MSDSM	WSFC	No	Supported (V10L60 or later)	
		Supported	Supported	Supported	PY-CND02 /PYBCND021 S26361-F3592-L532 S26361-F3592-E532 Onboard CAN (BE3)	See Instruction for use	See Instruction for use	See Instruction for use	EMPD V2.0L23 or later	WSFC	No	Supported (V10L60 or later)	
									MSDSM	WSFC	No	Supported (V10L60 or later)	
Other Companies' Servers	Essentials/Standard/ Datacenter	Supported	Supported	Supported	OCe14401B	See Instruction for use	See Instruction for use	See Instruction for use	EMPD V2.0L23 or later	WSFC	No	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
		Supported	Supported	Supported	OCe14102	See Instruction for use	See Instruction for use	See Instruction for use	MSDSM	WSFC	No	Supported (V10L60 or later)	
									EMPD V2.0L23 or later	WSFC	No	Supported (V10L60 or later)	

Windows Server 2012R2 x64 Editions (64-bit version)	OS	Connection type			HBA				Path Failover	Cluster system	SAN boot	Model	Instruction for uses
		via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6720/6730, NOS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE Driver version				DX80 S2 DX90 S2	
PRIMEQUEST 2000 series (PQ2800E2/PQ2800L2/ PQ2400E2/PQ2400L2/ PQ2400S2/PQ2400S2 Lite/ PQ2800B2/ PQ2800E/PQ2800L/ PQ2400E/PQ2400L/ PQ2400S/PQ2400S Lite/ PQ2800B only)	Standard/Datacenter	Supported	Supported	Supported	MC-QJCE6*	See Instruction for use	See Instruction for use	See Instruction for use	EMPD V2.0L21 or later	WSFC	See Instruction for use	Supported (V10L60 or later)	- When using SAN boot, please ask support status to the server side. - Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.
PRIMERGY	Standard/Datacenter	Supported	Supported	Supported	PY-CN202 /PYBCN202 S26361-F3592-L2/E2	See Instruction for use	See Instruction for use	See Instruction for use	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V10L52 or later)	- When using SAN boot, please ask support status to the server side. - Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
									MSDSM	WSFC	See Instruction for use	Supported (V10L52 or later)	
		Supported	Supported	Supported	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	See Instruction for use	See Instruction for use	See Instruction for use	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V10L52 or later)	
									MSDSM	WSFC	See Instruction for use	Supported (V10L52 or later)	
		Supported	Supported	Supported	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	See Instruction for use	See Instruction for use	See Instruction for use	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V10L52 or later)	
									MSDSM	WSFC	See Instruction for use	Supported (V10L52 or later)	
		Supported	Supported	Supported	PY-CND02 /PYBCND021 S26361-F3592-L532 S26361-F3592-E532 Onboard CAN (BE3)	See Instruction for use	See Instruction for use	See Instruction for use	EMPD V2.0L20 or later	WSFC	Yes	Supported (V10L52 or later)	
									MSDSM	WSFC	Yes	Supported (V10L52 or later)	
Other Companies' Servers	Essentials/Standard/ Datacenter	Supported	Supported	Supported	OCe10102 HP: NC551i/NC551m CN1000E	See Instruction for use	See Instruction for use	See Instruction for use	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V10L50 or later)	- When using SAN boot, please ask support status to the server side. - Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
									MSDSM	WSFC	See Instruction for use	Supported (V10L50 or later)	
		Supported	Supported	Supported	OCe14401B	See Instruction for use	See Instruction for use	See Instruction for use	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V10L50 or later)	
									MSDSM	WSFC	See Instruction for use	Supported (V10L50 or later)	
		Supported	Supported	Supported	OCe14102	See Instruction for use	See Instruction for use	See Instruction for use	EMPD V2.0L20 or later	WSFC	See Instruction for use	Supported (V10L50 or later)	
									MSDSM	WSFC	See Instruction for use	Supported (V10L50 or later)	
					QLE8140/QLE8142				EMPD V2.0L20 or later	-	See Instruction for use	Planned 1 2013.11	
									MSDSM	-	See Instruction for use	Planned 1 2013.11	
					QLE8150/QLE8152				EMPD V2.0L20 or later	-	See Instruction for use	Planned 1 2013.11	
									MSDSM	-	See Instruction for use	Planned 1 2013.11	

Windows Server 2012 x64 Editions (64-bit version)	OS	Connection type			HBA				Path Failover	Cluster system	SAN boot	Model	Instruction for uses
		via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6720/6730, NOS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE Driver version				DX80 S2 DX90 S2	
PRIMEQUEST 2000 series (PQ2800E2/PQ2800L2/ PQ2400E2/PQ2400L2/ PQ2400S2/PQ2400S2 Lite/ PQ2800B2)	Standard/Datacenter	Supported	Supported	Supported	MC-0JCE6*	See Instruction for use	See Instruction for use	See Instruction for use	EMPD V2.0L21 or later	WSFC	See Instruction for use	Supported (V10L60 or later)	- When using SAN boot, please ask support status to the server side. - Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.
PRIMERGY	Standard/Datacenter	Supported	Supported	Supported	PY-CN202 /PYBCN202 S26361-F3592-L2/E2	4.02a7 or later	2.703.397.1 or later	6.1.14.1(Driver Package) or later	EMPD V2.0L19 or later	WSFC	See Instruction for use	Supported (V10L35 or later)	- When Offloaded Data Transfer(ODX) function is used, the firmware of ETERNUS DX80 S2/DX90 S2 should be upgraded to V10L40 or later, and Windows fix patch KB2796995 should be applied. http://support.microsoft.com/kb/2796995/en-us - When using SAN boot, please ask support status to the server side. - Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
		Supported	Supported	Supported	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	See Instruction for use	See Instruction for use	See Instruction for use	EMPD V2.0L19 or later	WSFC	See Instruction for use	Supported (V10L35 or later)	
		Supported	Supported	Supported	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	See Instruction for use	See Instruction for use	See Instruction for use	EMPD V2.0L19 or later	WSFC	See Instruction for use	Supported (V10L35 or later)	
		Supported	Supported	Supported	PY-CND02 /PYBCND02L S26361-F3592-L532 S26361-F3592-E532 Onboard CNA (BE3)	4.01a3 or later	2.702.348.8 or later	6.1.14.1(Driver Package) or later	EMPD V2.0L19 or later	WSFC	Yes	Supported (V10L35 or later)	
									MSDSM	WSFC	Yes	Supported (V10L35 or later)	
Other Companies' Servers	Essentials/Standard/ Datacenter	Supported	Supported	Supported	OCe10102	4.02a7 or later	2.703.397.1 or later	5.00.66.5 or later(FCoE) 2.33.004 or later(NIC)	EMPD V2.0L19 or later	WSFC	See Instruction for use	Supported (V10L35 or later)	- When Offloaded Data Transfer(ODX) function is used, the firmware of ETERNUS DX80 S2/DX90 S2 should be upgraded to V10L40 or later, and Windows fix patch KB2796995 should be applied. http://support.microsoft.com/kb/2796995/en-us - When using SAN boot, please ask support status to the server side. - Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
		Supported	Supported	Supported	HP: NC551/NC551m CN1000E	4.02a7 or later	2.703.397.1 or later	5.00.66.5 or later(FCoE) 2.33.004 or later(NIC)	MSDSM	WSFC	See Instruction for use	Supported (V10L35 or later)	
		Supported	Supported	Supported	OCe14401B	See Instruction for use	See Instruction for use	See Instruction for use	EMPD V2.0L19 or later	WSFC	See Instruction for use	Supported (V10L35 or later)	
		Supported	Supported	Supported					MSDSM	WSFC	See Instruction for use	Supported (V10L35 or later)	
		Supported	Supported	Supported	OCe14102	See Instruction for use	See Instruction for use	See Instruction for use	EMPD V2.0L19 or later	WSFC	See Instruction for use	Supported (V10L35 or later)	
		Supported	Supported	Supported					MSDSM	WSFC	See Instruction for use	Supported (V10L35 or later)	
		Supported		Supported	QLE8140/QLE8142	3.0 or later	5.04.01 or later	9.1.9.17 or later	EMPD V2.0L19 or later	-	See Instruction for use	Supported (V10L35 or later)	
		Supported	Planned 2	Supported		3.0 or later	5.04.01 or later	9.1.9.17 or later	MSDSM	-	See Instruction for use	Supported (V10L35 or later)	
		Supported		Supported		3.0 or later	5.04.01 or later	9.1.9.17 or later	EMPD V2.0L19 or later	-	See Instruction for use	Supported (V10L35 or later)	
		Supported	Planned 2	Supported	QLE8150/QLE8152	3.0 or later	5.04.01 or later	9.1.9.17 or later	MSDSM	-	See Instruction for use	Supported (V10L35 or later)	

Windows Server 2008 R2 x64 Edition (64 bit)	OS	Connection type			HBA				Path Failover	Cluster system	SAN boot	Model	Instruction for uses
		via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6720/6730, NOS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE Driver version				DX80 S2 DX90 S2	
PRIMERGY	Windows Server 2008 R2/R2 SP1 & Hyper-V	supported	supported	supported	PY-CND02 /PYBCND021 S26361-F3592-L532 S26361-F3592-E532 Onboard CAN (BE3)	See Instruction for use	See Instruction for use	See Instruction for use	EMPD V2.0L20 or later Note 1	WSFC	Yes	Supported (V10L52 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
		supported	supported	supported	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	See Instruction for use	See Instruction for use	See Instruction for use	EMPD V2.0L20 or later Note 1	WSFC	Yes	Supported (V10L52 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
		supported	supported	supported	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	See Instruction for use	See Instruction for use	See Instruction for use	EMPD V2.0L20 or later Note 1	WSFC	Yes	Supported (V10L52 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
		supported	supported	supported	S26361-F3592-L2/L20/ PG-292(BL)/PY-CN202	4.02a7	2.703.397.1	5.2.53Build10 (Driver Package) or later/ 5.00.66.5(FCoE) 2.33.004(NIC)	EMPD V2.0L18 or later Note 1	WSFC	No	Supported (V10L11 or later)	
		supported	supported	supported	MC-CNA102E	4.01a3	2.702.348.8	2.40.005(FCoE) 2.33.004(NIC)	EMPD V2.0L18 or later Note 1	WSFC	No	Supported (V10L11 or later)	
Other Companies' Servers	Windows2008 R2/R2 SP1(x64) &Hyper-V	supported	supported	supported	OCe10102 HP: NC551I/NC551m CN1000E	4.02a7	2.703.397.1	5.00.66.5(FCoE) 2.33.004(NIC)	EMPD V2.0L18 or later Note 1	WSFC	Yes	Supported (V10L11 or later)	
		supported	supported	supported		4.02a7	2.703.397.1	2.8.32.0(FCoE) 2.33.004(NIC)	EMPD V2.0L18 or later Note 1	WSFC	Yes	Supported (V10L11 or later)	
		supported	supported	supported		4.02a7	2.703.397.1	2.8.32.0(FCoE) 2.33.004(NIC)	MSDSM Note 1	WSFC	Yes	Supported (V10L11 or later)	
		supported	supported	supported	OCe14401B	See Instruction for use	See Instruction for use	See Instruction for use	EMPD V2.0L18 or later Note 1	WSFC	Yes	Supported (V10L11 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
		supported	supported	supported		See Instruction for use	See Instruction for use	See Instruction for use	MSDSM Note 1	WSFC	Yes	Supported (V10L11 or later)	
		supported	supported	supported	OCe14102	See Instruction for use	See Instruction for use	See Instruction for use	EMPD V2.0L18 or later Note 1	WSFC	Yes	Supported (V10L11 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
		supported	supported	supported		See Instruction for use	See Instruction for use	See Instruction for use	MSDSM Note 1	WSFC	Yes	Supported (V10L11 or later)	
		supported	Planned 2	supported	QLE8140/QLE8142	3.0	5.04.01	9.1.9.17	EMPD V2.0L18 or later Note 1	-	Yes	Planned 2	
		supported	Planned 2	supported		3.0	5.04.01	9.1.9.17	MSDSM Note 1	-	Yes	Supported (V10L11 or later)	
		supported	Planned 2	supported	QLE8150/QLE8152	3.0	5.04.01	9.1.9.17	EMPD V2.0L18 or later Note 1	-	Yes	Planned 2	
		supported	Planned 2	supported		3.0	5.04.01	9.1.9.17	MSDSM Note 1	-	Yes	Supported (V10L11 or later)	

Note 1 : When using EMPD on Windows Server 2008 R2, please apply KB2522766. When using MSDSM on Windows Server 2008 R2, please apply KB2522766.

Notes

- Please contact the Storage System Division when a heterogeneous server environment is created using SilkWorm fibre channel switch(es).
- For each Operating System, Path Failover software, Cluster System software, Volume manager software, please apply necessary patches which are suggested by the product suppliers.
- PCI-bus on Bus column indicates PCI or PCI-X.
- For internal FC-switch of other vender's Blade server, please refer to "FC switch" by checking OEM vender's switch model.
- GRMPD/EMPD's version and patch information for each OS are shown on the following web.
http://www.fujitsu.com/downloads/STRSYS/system/eternusmpd_linux_en.pdf
- For HBA's BIOS and Driver, please download the listed version from the RIS (Remote Install Service) website.
Go to the website <https://global.fujitsu-ssw.ne.jp/ris/default.htm>, then choose "PRIMERGY HBA Drivers for ETERNUS connection" at "Firmware Programs" on the left hand side of the frame.
- If multipath configuration is supported, then single path configuration is also supported. But multipath configuration may be mandatory because of cluster requirement.
- Please follow the instruction below if ext4 file system of RHEL6 will be used on TPV or FTV;
 - When creating file system, please add '-k' option to nullify "Discard operation". (Use "mkfs.ext4 -K device-name" for file creation)
 - Do not use "discard" option when mounting file system.

If above proCedures can not be used, then use the other methods below;

- When using REC, make REC session as "suspended state" or change copy mode to "Stack mode"
- Stop data migration operation by AST

LINUX	OS (Kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMEQUEST 2000 series (PQ2800E2/PQ2800L2/ PQ2400E2/PQ2400L2/ PQ2400S2/ PQ2400S2 Lite/ PQ2800B2)	RHEL7 (for Intel64)	Red Hat Enterprise Linux 7 (for Intel64) [3.10.0-514.el7] RHEL7.3	Direct/ via switch	PCI-Express	MC-0JFC3* MC-0JFC9* MC-0JFC4* MC-0JFCA*	See Instruction for use	See Instruction for use	See Instruction for use	Refer to "Switch pages" for supported FC switches.	EMPD	PRIMECLUSTER	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.
			Direct/ via switch	PCI-Express	MC-0JFC7* MC-0JFC8*	See Instruction for use	See Instruction for use	See Instruction for use		EMPD	PRIMECLUSTER	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.
			Direct/ via switch	PCI-Express	MC-0JFC5* MC-0JFC6*	See Instruction for use	See Instruction for use	See Instruction for use		EMPD	PRIMECLUSTER	Yes	Planned 2	Planned 2	Planned 2	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.
			Direct/ via switch	PCI-Express	MC-0JFC8* MC-0JFCC*	See Instruction for use	See Instruction for use	See Instruction for use		EMPD	PRIMECLUSTER	Yes	Planned 2	Planned 2	Planned 2	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.
PRIMEQUEST 2000 series (PQ2800E2/PQ2800L2/ PQ2400E2/PQ2400L2/ PQ2400S2/ PQ2400S2 Lite/ PQ2800B2/ PQ2800E/PQ2800L/ PQ2400E/PQ2400L/ PQ2400S/ PQ2400S Lite/ PQ2800B only)	RHEL6 (Intel64)	Red Hat Enterprise Linux 6 (for x86 & Intel64) [2.6.32-504.el6] RHEL6.6	Direct/ via switch	PCI-Express	MC-0JFC3* MC-0JFC9* MC-0JFC4* MC-0JFCA*	See Instruction for use	See Instruction for use	See Instruction for use	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L26 or later)	PRIMECLUSTER	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.
			Direct/ via switch	PCI-Express	MC-0JFC7* MC-0JFC8*	See Instruction for use	See Instruction for use	See Instruction for use		EMPD (V2.0L26 or later)	PRIMECLUSTER	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.
			Direct/ via switch	PCI-Express	MC-0JFC5* MC-0JFC6*	See Instruction for use	See Instruction for use	See Instruction for use		EMPD (V2.0L26 or later)	PRIMECLUSTER	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.
			Direct/ via switch	PCI-Express	MC-0JFC8* MC-0JFCC*	See Instruction for use	See Instruction for use	See Instruction for use		EMPD (V2.0L26 or later)	PRIMECLUSTER	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.
PRIMEQUEST 2000 series (PQ2800E/PQ2800L/ PQ2400E/PQ2400L/ PQ2400S/ PQ2400S Lite/ PQ2800B only)	RHEL6 (Intel64)	Red Hat Enterprise Linux 6 [2.6.32-431.el6] RHEL6.5	Direct/ via switch	PCI-Express	MC-0JFC3* MC-0JFC9* MC-0JFC4* MC-0JFCA*	See Instruction for use	See Instruction for use	See Instruction for use	Refer to "Switch pages" for supported FC switches.	EMPD	PRIMECLUSTER	Yes	Supported (V20L16 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.
			Direct/ via switch	PCI-Express	MC-0JFC7* MC-0JFC8*					EMPD	PRIMECLUSTER	Yes	Supported (V20L16 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.
		Red Hat Enterprise Linux 6 [2.6.32-358.el6] RHEL6.4	Direct/ via switch	PCI-Express	MC-0JFC3* MC-0JFC9* MC-0JFC4* MC-0JFCA*	See Instruction for use	See Instruction for use	See Instruction for use	Refer to "Switch pages" for supported FC switches.	EMPD	PRIMECLUSTER	Yes	Supported (V20L16 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.
			Direct/ via switch	PCI-Express	MC-0JFC7* MC-0JFC8*					EMPD	PRIMECLUSTER	Yes	Supported (V20L16 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.

Linux	OS (Kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMEQUEST 1000 series (all models)	RHEL6 (x86) KVM	Red Hat Enterprise Linux 6 [2.6.32-220.el6] RHEL6.3	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	6.30a1	2.01A4	8.3.5.68.5p-1	Refer to "Switch pages" for supported FC switches.	EMPD	PCL	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Planned 2	
		Red Hat Enterprise Linux 6 (for x86) [2.6.32-220.el6] RHEL6.2	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	4.00a1 4.12a7	1.11a5 2.00A4	8.3.5.45.4p-1 (OS bundled)		EMPD	PCL	Yes	Supported (V20L14 or later)	Supported (V10L45 or later)	Planned 2	
		Red Hat Enterprise Linux 6 (for x86) [2.6.32-131.0.15.el6] RHEL6.1	Direct/ via switch	PCI-Express	MC-0JFC11/MC-0JFC1L /MC-0JFC21/MC-0JFC2L	4.00a1	1.11A5	8.3.5.30.1p OS bundled)		EMPD	PCL	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Planned 2	
		Red Hat Enterprise Linux 6 (for x86) [2.6.32-71.el6] RHEL6.0	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	4.00A1	1.11A5	8.3.5.17 (OS bundled)		EMPD	PCL	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Planned 2	
	RHEL6 (Intel64) KVM	Red Hat Enterprise Linux 6 [2.6.32-220.el6] RHEL6.3	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	6.30a1	2.01A4	8.3.5.68.5p-1		EMPD	PCL	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Planned 2	
		Red Hat Enterprise Linux 6 (for Intel64) [2.6.32-220.el6] RHEL6.2	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	4.00a1 4.12a7	1.11a5 2.00A4	8.3.5.45.4p-1 (OS bundled)		EMPD	PCL	Yes	Supported (V20L14 or later)	Supported (V10L45 or later)	Planned 2	
		Red Hat Enterprise Linux 6 (for Intel64) [2.6.32-131.0.15.el6] RHEL6.1	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	4.00a1	1.11A5	8.3.5.30.1p (OS bundled)		EMPD	PCL	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	
		Red Hat Enterprise Linux 6 (for Intel64) [2.6.32-71.el6] RHEL6.0	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	4.00A1	1.11A5	8.3.5.17 (OS bundled)		DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Planned 2	
	RHEL5 (x86) Xen	Red Hat Enterprise Linux 5 [2.6.18-348.el5] RHEL5.9	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	6.30a1	2.01A4	8.2.0.128.3p-1		EMPD	PCL	Yes	Supported (V20L10 or later)	Supported (V10L22 or later)	Planned 2	
		Red Hat Enterprise Linux 5 (for x86) [2.6.18-274.el5] RHEL5.8	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	4.12a7	2.00A4	8.2.0.108.4p-1		EMPD V2.0L23	PCL	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Planned 2	
PRIMEQUEST 1000 series (all models)	RHEL5 (x86) Xen	Red Hat Enterprise Linux 5 (for x86) [2.6.18-274.el5] RHEL5.8	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	4.00a1	1.11A5	8.2.0.96.2p (OS bundled)	Refer to "Switch pages" for supported FC switches.	EMPD	PCL	Yes	Supported (V20L10 or later)	Supported (V10L22 or later)	Planned 2	
		Red Hat Enterprise Linux 5 (for x86) [2.6.18-274.el5] RHEL5.7	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	4.00a1	1.11A5	8.2.0.96.2p (OS bundled)		EMPD	PCL	Yes	Supported (V20L10 or later)	Supported (V10L22 or later)	Planned 2	
		Red Hat Enterprise Linux 5 (for Itanium) [2.6.18-238.el5] RHEL5.6	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	4.00A1	1.11A5	8.2.0.87.1p (OS bundled)		EMPD	PCL 4.3A00	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Planned 2	
		Red Hat Enterprise Linux 5 (for x86) [2.6.18-238.el5] RHEL5.6	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	4.00A1	1.11A5	8.2.0.87.1p (OS bundled)		DeviceMapper	PCL (GDS patch required)	Yes	Planned 2	Planned 2	Planned 2	
	RHEL5 (Intel64) Xen	Red Hat Enterprise Linux 5 (for x86) [2.6.18-194.el5] RHEL5.5	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	4.00A1	1.11A5	8.2.0.63.3p (OS bundled)		EMPD	PCL 4.3A00	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Planned 2	
		Red Hat Enterprise Linux 5 (for x86) [2.6.18-164.el5] RHEL5.4	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	4.00A1	1.11A5	8.2.0.48.2p (OS bundled)*1		DeviceMapper	PCL (GDS patch required)	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Planned 2	
PRIMEQUEST 1000 series (PQ1400S/ 1400E/1400L/ 1800E/1800L only)	RHEL5 (x86) Xen	Red Hat Enterprise Linux 5 (for x86) [2.6.18-164.el5] RHEL5.4	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	4.00A1	1.11A5	8.2.0.48.2p (OS bundled)*1		EMPD	PCL 4.3A00	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	
		Red Hat Enterprise Linux 5 (for x86) [2.6.18-128.el5] RHEL5.3	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	4.00A1	1.11A5	8.2.0.33.3p (OS bundled)		EMPD	PCL 4.3A00	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Planned 2	
		Red Hat Enterprise Linux 5 (for Intel64) [2.6.18-348.el5] RHEL5.9	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	6.30a1	2.01A4	8.2.0.128.3p-1		EMPD	PCL	Yes	Supported (V20L10 or later)	Supported (V10L22 or later)	Planned 2	
		Red Hat Enterprise Linux 5 (for Intel64) [2.6.18-274.el5] RHEL5.8	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	4.12a7	2.00A4	8.2.0.108.4p-1		EMPD	PCL	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Planned 2	
	RHEL5 (Intel64) Xen	Red Hat Enterprise Linux 5 (for Intel64) [2.6.18-274.el5] RHEL5.7	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	4.00a1	1.11A5	8.2.0.96.2p (OS bundled)		EMPD	PCL	Yes	Supported (V20L10 or later)	Supported (V10L22 or later)	Planned 2	
		Red Hat Enterprise Linux 5 (for Intel64) [2.6.18-238.el5] RHEL5.6	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	4.00A1	1.11A5	8.2.0.87.1p (OS bundled)		EMPD	PCL 4.3A00	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Planned 2	
		Red Hat Enterprise Linux 5 (for Intel64) [2.6.18-238.el5] RHEL5.6	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	4.00A1	1.11A5	8.2.0.87.1p (OS bundled)		DeviceMapper	PCL (GDS patch required)	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Planned 2	
		Red Hat Enterprise Linux 5 (for Intel64) [2.6.18-194.el5] RHEL5.5	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	4.00A1	1.11A5	8.2.0.63.3p (OS bundled)		EMPD	PCL 4.3A00	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Planned 2	
	RHEL5 (Intel64) Xen	Red Hat Enterprise Linux 5 (for Intel64) [2.6.18-164.el5] RHEL5.4	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	4.00A1	1.11A5	8.2.0.48.2p (OS bundled)*1		VxVM 5.1	VCS 5.1	No	Supported (V20L10 or later)	Planned 2	Planned 2	
		Red Hat Enterprise Linux 5 (for Intel64) [2.6.18-128.el5] RHEL5.3	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	4.00A1	1.11A5	8.2.0.33.3p (OS bundled)		DeviceMapper	PCL (GDS patch required)	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Planned 2	
PRIMEQUEST 1000 series (PQ1400S/ 1400E/1400L/ 1800E/1800L only)	RHEL5 (Intel64) Xen	Red Hat Enterprise Linux 5 (for Intel64) [2.6.18-164.el5] RHEL5.4	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	4.00A1	1.11A5	8.2.0.48.2p (OS bundled)*1		EMPD	PCL 4.3A00	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	
		Red Hat Enterprise Linux 5 (for Intel64) [2.6.18-128.el5] RHEL5.3	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	4.00A1	1.11A5	8.2.0.33.3p (OS bundled)		VxVM 5.1	VCS 5.1	No	Supported (V20L10 or later)	Planned 2	Planned 2	
	RHEL5 (Intel64) Xen	Red Hat Enterprise Linux 5 (for Intel64) [2.6.18-164.el5] RHEL5.4	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	4.00A1	1.11A5	8.2.0.48.2p (OS bundled)*1		EMPD	PCL 4.3A00	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	
		Red Hat Enterprise Linux 5 (for Intel64) [2.6.18-128.el5] RHEL5.3	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	4.00A1	1.11A5	8.2.0.33.3p (OS bundled)		VxVM 5.1	VCS 5.1	No	Supported (V20L10 or later)	Planned 2	Planned 2	
	RHEL5 (Intel64) Xen	Red Hat Enterprise Linux 5 (for Intel64) [2.6.18-164.el5] RHEL5.4	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	4.00A1	1.11A5	8.2.0.48.2p (OS bundled)*1		EMPD	PCL 4.3A00	Yes	Supported (V20L10 or later)	Planned 2	Planned 2	
		Red Hat Enterprise Linux 5 (for Intel64) [2.6.18-128.el5] RHEL5.3	Direct/ via switch	PCI-Express	MC-0JFC11/ MC-0JFC21	4.00A1	1.11A5	8.2.0.33.3p (OS bundled)		VxVM 5.1	VCS 5.1	No	Supported (V20L10 or later)	Planned 2	Planned 2	

Linux	OS (kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use	
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA		
PRIMEQUEST 400/500/500A series	RHEL5 (IPF)	Red Hat Enterprise Linux 5 (for Itanium) [2.6.18-194.el5] RHEL5.5	Direct/ via switch	PCI-bus	MC-08FC11 / MC-08FC71	3.11x1	1.91a5	8.2.0.63.3p-1	Refer to "Switch pages" for supported FC switches.	EMPD	PCL 4.3A00	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Planned 2		
				PCI-bus	MC-08FC31 / MC-08FC41	3.11x1	2.10a7	8.2.0.63.3p-1						Supported (V10L11 or later)	Planned 2		
				PCI-Express	MC-08FC51 / MC-08FC61	3.11x1	2.50a4	8.2.0.63.3p-1						Supported (V10L11 or later)	Planned 2		
				PCI-Express	MC-08FC81 / MC-08FC91	4.00a1	1.11a5	8.2.0.63.3p-1						Supported (V10L11 or later)	Planned 2		
				PCI-bus	MC-08FC31 / MC-08FC41	3.11x1	2.10a7	8.2.0.63.3p-1						Supported (V20L10 or later)	N.A.	Planned 2	
			Direct/ via switch	PCI-Express	MC-08FC51 / MC-08FC61	4.00a1	2.80a4	8.2.0.63.3p-1						Supported (V20L10 or later)	N.A.	Planned 2	
				PCI-bus	MC-08FC11 / MC-08FC71	3.11x1	1.91a5	8.2.0.87.1p-1		DeviceMapper	PCL (GDS patch required)	No	Planned 1	Supported (V10L11 or later)	Planned 2		
				PCI-bus	MC-08FC31 / MC-08FC41	3.11x1	2.10a7	8.2.0.87.1p-1						Supported (V10L11 or later)	Planned 2		
				PCI-Express	MC-08FC51 / MC-08FC61	3.11x1	2.50a4	8.2.0.87.1p-1						Supported (V10L11 or later)	Planned 2		
				PCI-Express	MC-08FC81 / MC-08FC91	4.00a1	2.80a4	8.2.0.87.1p-1						Supported (V10L11 or later)	Planned 2		
		RedHat Enterprise Linux 5 (for Itanium) [2.6.18-154.el5] RHEL5.4	Direct/ via switch	PCI-bus	MC-08FC11 / MC-08FC71	3.11x1	1.91a5	8.2.0.48.2p-1		EMPD	PCL 4.3A00	Yes	Supported (V20L10 or later)	N.A.	N.A.		
				PCI-bus	MC-08FC31 / MC-08FC41	3.11x1	2.10a7	8.2.0.48.2p-1						N.A.	N.A.		
				PCI-Express	MC-08FC51 / MC-08FC61	3.11x1	2.50a4	8.2.0.48.2p-1						N.A.	N.A.		
				PCI-Express	MC-08FC81 / MC-08FC91	4.00a1	1.11a5	8.2.0.48.2p-1						N.A.	N.A.		
		Red Hat Enterprise Linux 5 (for Itanium) [2.6.18-128.el5] RHEL5.3	Direct/ via switch	PCI-bus	MC-08FC31/MC-08FC41	3.11x1	1.91a5	8.2.0.33.3p		EMPD	PCL	Yes	Supported (V20L10 or later)	N.A.	N.A.		
				PCI-Express	MC-08FC51/MC-08FC61	3.11x1	2.10a7	8.2.0.33.3p						N.A.	N.A.		
				PCI-bus	MC-08FC11/MC-08FC71	3.11x1	2.50a4	8.2.0.33.3p						N.A.	N.A.		
				PCI-Express	MC-08FC81/MC-08FC91	4.00a1	1.11a5	8.2.0.33.3p						N.A.	N.A.		
	RHEL4 (IPF)	RedHat Enterprise Linux AS (v.4 for Itanium) [2.6.9-100.EL] RHEL4.9	Direct/ via switch	PCI-bus	MC-08FC31/MC-08FC41	3.11x1	2.10a7	8.0.16.47-1		EMPD (V2.0L21 or later)	-	Yes	Supported (V20L10 or later)	N.A.	N.A.		
				PCI-Express	MC-08FC51/MC-08FC61	4.00a1	2.80a4	8.0.16.47-1						N.A.	N.A.		
				PCI-bus/ PCI-Express	MC-08FC81/MC-08FC91	4.00a1	1.11a5	8.0.16.47-1						N.A.	N.A.		
		RedHat Enterprise Linux AS (v.4 for Itanium) [2.6.9-89.EL] RHEL4.8	Direct/ via switch	PCI-bus/ PCI-Express	MC-08FC11/MC-08FC71	4.00a1	1.92a1	8.0.16.46-1		EMPD	PCL	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Planned 2		
				PCI-bus/ PCI-Express	MC-08FC51/MC-08FC61	4.00a1	2.80a4							Supported (V10L11 or later)	Planned 2		
				PCI-bus/ PCI-Express	MC-08FC81/MC-08FC91	4.00a1	1.11a5							Supported (V10L11 or later)	Planned 2		
				PCI-bus	MC-08FC31/MC-08FC41	3.11x1	2.10a7	8.0.16.46-1		EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	N.A.	N.A.		
			Direct/ via switch	PCI-Express	MC-08FC51/MC-08FC61	4.00a1	2.80a4	8.0.16.46-1						N.A.	N.A.		
				PCI-bus/ PCI-Express	MC-08FC81/MC-08FC91	4.00a1	1.11a5	8.0.16.46-1						N.A.	N.A.		
				PCI-bus	MC-08FC31/MC-08FC41	3.11x1	1.91a5	8.0.16.40		EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	N.A.	N.A.		
				PCI-Express	MC-08FC51/MC-08FC61	3.11x1	2.10a7	8.0.16.40						N.A.	N.A.		
				PCI-bus	MC-08FC11/MC-08FC71	3.11x1	2.50a4	8.0.16.40						N.A.	N.A.		
				PCI-Express	MC-08FC81/MC-08FC91	4.00a1	1.11a5	8.0.16.40						N.A.	N.A.		
		Red Hat Enterprise Linux AS (v.4 for Itanium) [2.6.9-78.0.1.EL] RHEL4.7	Direct/ via switch	PCI-bus	MC-08FC31/MC-08FC41	3.11x1	1.91a5	8.0.16.40		EMPD	-	No	Planned 2	Supported (V10L31 or later)	Planned 2		
		PCI-Express		MC-08FC81/MC-08FC91	3.11x1	2.10a7	8.0.16.40										
		Red Hat Enterprise Linux AS (v.4 for Itanium) [2.6.9-67.EL] RHEL4.6	Direct/ via switch	PCI-Express	MC-08FC81/MC-08FC91	3.11x1	2.10a7	8.0.16.40		EMPD	-	No	Planned 2	Supported (V10L31 or later)	Planned 2		
	RHEL5 (IPF)	Red Hat Enterprise Linux 5 (for Itanium) [2.6.18-238.el5] RHEL5.6	Direct/ via switch	PCI-bus	MC-08FC11 / MC-08FC71	3.11x1	1.91a5	Refer to "Switch pages" for supported FC switches.	EMPD	PCL	Yes	Planned 1	Supported (V10L11 or later)	Planned 2			
				PCI-bus	MC-08FC31 / MC-08FC41	3.11x1	2.10a7						Supported (V10L11 or later)	Planned 2			
				PCI-Express	MC-08FC51 / MC-08FC61	3.11x1	2.50a4						Supported (V10L11 or later)	Planned 2			
				PCI-Express	MC-08FC81 / MC-08FC91	4.00a1	2.80a4						Supported (V10L11 or later)	Planned 2			
			Direct/ via switch	PCI-bus	MC-08FC11 / MC-08FC71	3.11x1	1.91a5		DeviceMapper	PCL (GDS patch required)	No	Planned 1	Supported (V10L11 or later)	Planned 2			
				PCI-bus	MC-08FC31 / MC-08FC41	3.11x1	2.10a7						Supported (V10L11 or later)	Planned 2			
				PCI-Express	MC-08FC51 / MC-08FC61	3.11x1	2.50a4						Supported (V10L11 or later)	Planned 2			
				PCI-Express	MC-08FC81 / MC-08FC91	4.00a1	2.80a4						Supported (V10L11 or later)	Planned 2			
		SLES9 (IPF)	SUSE Linux Enterprise Server 9	Direct/ via switch	PCI-bus	MC-08FC31/MC-08FC41				EMPD	-		Planned 2	Planned 2		Planned 2	
					PCI-Express	MC-08FC51/MC-08FC61											
			PCI-bus	MC-08FC11/MC-08FC71													

*1: Driver Version 8.2.0.48.2o Driver is integrated into the kernel.
Driver Version 8.2.0.48.3p Driver is integrated into the kernel. The driver is only available with kernel 2.6.18-164.11.1.el5 and higher.

LINUX	OS (kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use	
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA		
PRIMEQUEST 2000 series (PQ2800E2/IPQ2800L2/ PQ2400E2/IPQ2400L2/ PQ2400S2/ PQ2400S2 Lite/ PQ2800B2)	SuSE12	SUSE Linux Enterprise Server 12	Direct/ via switch	PCI-Express	MC-0JFC3* MC-0JFC9*	See instruction for use	See instruction for use	See instruction for use	Refer to "Switch pages" for supported FC switches.	EMPD	-	Yes	Planned 2	Planned 2	Planned 2	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.	
			Direct/ via switch	PCI-Express	MC-0JFC4* MC-0JFCA*					EMPD	-	Yes	Planned 2	Planned 2	Planned 2	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.	
			Direct/ via switch	PCI-Express	MC-0JFC7* MC-0JFC8*	See instruction for use	See instruction for use	See instruction for use		EMPD	-	Yes	Planned 2	Planned 2	Planned 2	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.	
			Direct/ via switch	PCI-Express	MC-0JFC5* MC-0JFC6*					EMPD	-	Yes	Planned 2	Planned 2	Planned 2	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.	
	SuSE11 SP3	SUSE Linux Enterprise Server 11 SP3	Direct/ via switch	PCI-Express	MC-0JFC8* MC-0JFCC*	See instruction for use	See instruction for use	See instruction for use	Refer to "Switch pages" for supported FC switches.	EMPD	-	Yes	Planned 2	Planned 2	Planned 2	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.	
			Direct/ via switch	PCI-Express	MC-0JFC3* MC-0JFC4* MC-0JFCA*					EMPD	-	Yes	Planned 2	Planned 2	Planned 2	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.	
			Direct/ via switch	PCI-Express	MC-0JFC7* MC-0JFC8*	See instruction for use	See instruction for use	See instruction for use		EMPD	-	Yes	Planned 2	Planned 2	Planned 2	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.	
			Direct/ via switch	PCI-Express	MC-0JFC5* MC-0JFC6*					EMPD	-	Yes	Planned 2	Planned 2	Planned 2	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.	
			Direct/ via switch	PCI-Express	MC-0JFC8* MC-0JFCC*	See instruction for use	See instruction for use	See instruction for use		EMPD	-	Yes	Planned 2	Planned 2	Planned 2	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.	
			Direct/ via switch	PCI-Express	MC-0JFC3* MC-0JFCC*					EMPD	-	Yes	Planned 2	Planned 2	Planned 2	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.	

Linux	OS (Kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMERGY	RHEL 7 (Intel®64)	Red Hat Enterprise Linux 7 [3.10.0-514] (for Intel®64) RHEL 7.3 &KVM	Direct/ via switch	PCI-Express	PY-FC351/PYBFC351/ PYBFC351L PY-FC352/PYBFC352/ PYBFC352L S26361-F4044-L501/E1/E201 S26361-F4044-L502/E2/E202	Note 3	Note 3	Note 3	Refer to "Switch pages" for supported FC switches.	DeviceMapper	Oracle RAC12c R1	Yes Note 5	Planned 2	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PCI-Express	PY-FC341/PYBFC341/ PYBFC341L PY-FC342/PYBFC342/ PYBFC342L S26361-F4043-L501/E1/E201 S26361-F4043-L502/E2/E202	Note 3	Note 3	Note 3		DeviceMapper	Oracle RAC12c R1	Yes	Planned 2	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PCI-Express	PY-FC331/PYBFC331/ PYBFC331L PY-FC332/PYBFC332/ PYBFC332L S26361-F5596-L501/E1/E201 S26361-F5596-L502/E2/E202	Note 3	Note 3	Note 3		DeviceMapper	Oracle RAC12c R1	Yes Note 5	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PCI-Express	PY-FC221/PY-FC221/ S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201 S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202	Note 3	Note 3	Note 3		EMPD (V2.0L27 or later)	Oracle RAC12c R1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										DeviceMapper		Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PCI-Express	PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	Note 3	Note 3	Note 3		EMPD (V2.0L27 or later)	Oracle RAC12c R1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										DeviceMapper		Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch (see Instruction for use)	PCI-Express	PY-FC221/PY-FC221L PYBFC221/PYBFC221L PY-FC222/PY-FC222L PYBFC222/PYBFC222L S26361-F4994-L501/ S26361-F4994-E1/ S26361-F4994-L502/ S26361-F4994-E2	Note 3	Note 3	Note 3		EMPD (V2.0L27 or later)	Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch (see Instruction for use)	PCI-Express	PY-FC211/PY-FC212 PG-FC205/PG-FC206 S26361-F3631-L1/ S26361-F3631-L2	Note 3	Note 3	Note 3		EMPD (V2.0L27 or later)	Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch (see Instruction for use)	PCI-Express	PY-FC201/PY-FC202 PG-FC203/PG-FC204 S26361-F3961-L1/ S26361-F3961-L2	Note 3	Note 3	Note 3		EMPD (V2.0L27 or later)	Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			via switch	PCI-Express	PY-FC012/ PYBFC0121/PYBFC0122 S26361-F4994-E402/ S26361-F4994-L402 *1	Note 3	Note 3	Note 3		EMPD (V2.0L27 or later)	Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PCI-Express	MC-FC82E PG-FC0202/PY-FC020 S26361-F3874-L1 Note 1	Note 3	Note 3	Note 3		EMPD (V2.0L27 or later)	Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
		Red Hat Enterprise Linux 7 [3.10.0-327] (for Intel®64) RHEL 7.2 &KVM	Direct/ via switch	PCI-Express	S26361-F3961-L1L201/ S26361-F3961-L2L202/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	Note 3	Note 3	Note 3	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L27 or later)	Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	Note 3	Note 3	Note 3		EMPD (V2.0L27 or later)	Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PCI-Express	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201 S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202	Note 3	Note 3	Note 3		EMPD (V2.0L27 or later)	Oracle RAC12c R1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										DeviceMapper		Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PCI-Express	PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	Note 3	Note 3	Note 3		EMPD (V2.0L27 or later)	Oracle RAC12c R1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										DeviceMapper		Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch (see Instruction for use)	PCI-Express	PY-FC221/PY-FC221L PYBFC221/PYBFC221L PY-FC222/PY-FC222L PYBFC222/PYBFC222L S26361-F4994-L501/ S26361-F4994-E1/ S26361-F4994-L502/ S26361-F4994-E2	Note 3	Note 3	Note 3		EMPD (V2.0L27 or later)	Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	When using EMPD and connecting with ETHERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			via switch	PCI-Express	PY-FC012/ PYBFC0121/PYBFC0122 S26361-F4994-E402/ S26361-F4994-L402 *1	Note 3	Note 3	Note 3		EMPD (V2.0L27 or later)	Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PCI-Express	MC-FC82E PG-FC0202/PY-FC020 S26361-F3874-L1 Note 1	Note 3	Note 3	Note 3		EMPD (V2.0L27 or later)	Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	

Note 1: For connection with ETHERNUS DX, FC switch blade or FC Pass-Thru Blade is required.
Note 3: Please use BIOS/Firmware/Driver which are supported by HBA vendor and server vendor.
Note 5: SAN boot on direct connection is not supported.

LINUX	OS (kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMERGY	RHEL 7 (Intel64)	Red Hat Enterprise Linux 7 (3.10.0-229) (for Intel64) RHEL 7.1 &KVM	Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2A.202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	Note 3	Note 3	Note 3	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L27 or later)	PRIMECLUSTER Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	Note 3	Note 3	Note 3		EMPD (V2.0L27 or later)	PRIMECLUSTER Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PCI-Express	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201 S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202	Note 3	Note 3	Note 3		EMPD (V2.0L27 or later)	PRIMECLUSTER Oracle RAC12c R1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										DeviceMapper		Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PCI-Express	PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	Note 3	Note 3	Note 3		EMPD (V2.0L27 or later)	PRIMECLUSTER Oracle RAC12c R1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										DeviceMapper		Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch (see instruction for use)	PCI-Express	PY-FC221/PY-FC221L PYBFC221/PYBFC221L PY-FC222/PY-FC222L PYBFC222/PYBFC222L S26361-F4994-L501/ S26361-F4994-E1/ S26361-F4994-L502/ S26361-F4994-E2	Note 3	Note 3	Note 3		EMPD (V2.0L27 or later)	PRIMECLUSTER Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	When using EMPD and connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			via switch	PCI-Express	PY-FCD12/ PYBFCD12/PYBFCD122 S26361-F4994-E402/ S26361-F4994-L402 *1	Note 3	Note 3	Note 3		EMPD (V2.0L27 or later)	PRIMECLUSTER Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PCI-Express	MC-FC82E PG-FCD202/PY-FCD02 S26361-F3874-L1 Note 1	Note 3	Note 3	Note 3		EMPD (V2.0L27 or later)	PRIMECLUSTER Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
	RHEL 7 (Intel64)	Red Hat Enterprise Linux 7 (3.10.0-123) (for Intel64) RHEL 7.0 &KVM	Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2A.202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	Note 3	Note 3	Note 3	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L26 or later)	PRIMECLUSTER Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L55 or later)	Supported (V10L55 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L55 or later)	Supported (V10L55 or later)	
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	Note 3	Note 3	Note 3		EMPD (V2.0L26 or later)	PRIMECLUSTER Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L55 or later)	Supported (V10L55 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L55 or later)	Supported (V10L55 or later)	
			Direct/ via switch	PCI-Express	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201 S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202	Note 3	Note 3	Note 3		EMPD (V2.0L26 or later)	PRIMECLUSTER Oracle RAC12c R1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										DeviceMapper		Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PCI-Express	PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	Note 3	Note 3	Note 3		EMPD (V2.0L26 or later)	PRIMECLUSTER Oracle RAC12c R1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										DeviceMapper		Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch (see instruction for use)	PCI-Express	PY-FC221/PY-FC221L PYBFC221/PYBFC221L PY-FC222/PY-FC222L PYBFC222/PYBFC222L S26361-F4994-L501/ S26361-F4994-E1/ S26361-F4994-L502/ S26361-F4994-E2	Note 3	Note 3	Note 3		EMPD (V2.0L26 or later)	PRIMECLUSTER Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L55 or later)	Supported (V10L55 or later)	When using EMPD and connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L55 or later)	Supported (V10L55 or later)	
			via switch	PCI-Express	PY-FCD12/ PYBFCD12/PYBFCD122 S26361-F4994-E402/ S26361-F4994-L402 *1	Note 3	Note 3	Note 3		EMPD (V2.0L26 or later)	PRIMECLUSTER Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L55 or later)	Supported (V10L55 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L55 or later)	Supported (V10L55 or later)	
			Direct/ via switch	PCI-Express	MC-FC82E PG-FCD202/PY-FCD02 S26361-F3874-L1 Note 1	Note 3	Note 3	Note 3		EMPD (V2.0L26 or later)	PRIMECLUSTER Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L55 or later)	Supported (V10L55 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L55 or later)	Supported (V10L55 or later)	

Note 1: For connection with ETERNUS DX, FC switch blade or FC Pass-Thru Blade is required.

Note 3: Please use BIOS/Firmware/Driver which are supported by HBA vendor and server vendor.

LINUX	OS (Kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMERGY	RHEL 6 (x86)	Red Hat Enterprise Linux 6 [2.6.32-642.el6] (for x86) RHEL6.8	Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205U/ PG-FC206/PG-FC206U/ PY-FC211/PY-FC211U/ PY-FC212/PY-FC212L	See instruction for use	See instruction for use	See instruction for use	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L27 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
			Direct/ via switch	PCI-Express	PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	See instruction for use	See instruction for use	See instruction for use		DeviceMapper		Yes	Planned 2	Planned 2	Planned 2	
			Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L	See instruction for use	See instruction for use	See instruction for use		EMPD (V2.0L27 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2A.202/ PG-FC203/PG-FC203U/ PG-FC204/PG-FC204U/ PY-FC202/PY-FC202U/ PY-FC201/PY-FC201L	See instruction for use	See instruction for use	See instruction for use		DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
		Red Hat Enterprise Linux 6 [2.6.32-573.el6] (for x86) RHEL6.7	Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205U/ PG-FC206/PG-FC206U/ PY-FC211/PY-FC211U/ PY-FC212/PY-FC212L	See instruction for use	See instruction for use	See instruction for use	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L27 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PCI-Express	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201 S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202	See instruction for use	See instruction for use	See instruction for use		DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PCI-Express	PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	See instruction for use	See instruction for use	See instruction for use		EMPD (V2.0L27 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PCI-Express	PY-FC221/PY-FC221L PYBFC221/PYBFC221L PY-FC222/PY-FC222L PYBFC222/PYBFC222L S26361-F4994-L501/ S26361-F4994-E1/ S26361-F4994-L502/ S26361-F4994-E2	See instruction for use	See instruction for use	See instruction for use		DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			via switch	PCI-Express	PY-FC212/ PYBFC212/PYBFC212L S26361-F4994-E402/ S26361-F4994-L402	See instruction for use	See instruction for use	See instruction for use		EMPD (V2.0L27 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PCI-Express	MC-FC2E PG-FC202/PY-FC202 S26361-F3874-L1 Note 1	See instruction for use	See instruction for use	See instruction for use		DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	

Note 1: For connection with ETERNUS DX, FC switch blade or FC Pass-Thru Blade is required.

LINUX	OS (Kernel)		Connected Type	Bus	HBA			Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use		
					model name	BIOS version/ EFI driver version	Firmware version					Driver version	DX60 S2	DX80 S2 DX90 S2		DX80 S2 DX90 S2 16Gbps CA	
PRIMERGY	Red Hat Enterprise Linux 6 [2.6.32-504.el6] (for x86) RHEL6.6	RHEL 6 (x86)	Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L	See Instruction for use	See Instruction for use	See Instruction for use	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.	
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2A.202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	See Instruction for use	See Instruction for use	See Instruction for use		DeviceMapper	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)		
										EMPD (V2.0L22 or later)		Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)		
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	See Instruction for use	See Instruction for use	See Instruction for use		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)		
			Direct/ via switch	PCI-Express	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201 S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202	See Instruction for use	See Instruction for use	See Instruction for use		DeviceMapper	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L16 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)		
										EMPD (V2.0L22 or later)		Yes	Supported (V20L16 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)		
			Direct/ via switch	PCI-Express	PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	See Instruction for use	See Instruction for use	See Instruction for use		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L16 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)		
			Direct/ via switch (see Instruction for use)	PCI-Express	PY-FC221/PY-FC221L PYBFC221/PYBFC221L PY-FC222/PY-FC222L PYBFC222/PYBFC222L S26361-F4994-L501/ S26361-F4994-E1/ S26361-F4994-L502/ S26361-F4994-E2	See Instruction for use	See Instruction for use	See Instruction for use		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. When using EMPD and connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower. Please refer to PRIMERGY handbook or System configuration guide for detail information. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.	
										DeviceMapper	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)			
			via switch	PCI-Express	PY-FCD12/ PYBFCD121/PYBFCD122 S26361-F4994-E402/ S26361-F4994-L402	See Instruction for use	See Instruction for use	See Instruction for use		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.	
			Direct/ via switch	PCI-Express	MC-FC82E PG-FCD202/PY-FCD02 S26361-F3874-L1 Note 1	See Instruction for use	See Instruction for use	See Instruction for use		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)		
	Red Hat Enterprise Linux 6 [2.6.32-431.el6] (for x86) RHEL6.5	RHEL 6 (x86)	Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L	See Instruction for use	See Instruction for use	See Instruction for use	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.	
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2A.202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	See Instruction for use	See Instruction for use	See Instruction for use		DeviceMapper	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)		
										EMPD (V2.0L22 or later)		Yes	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)		
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	See Instruction for use	See Instruction for use	See Instruction for use		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)		
			Direct/ via switch	PCI-Express	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201 S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202	See Instruction for use	See Instruction for use	See Instruction for use		DeviceMapper	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		
										EMPD (V2.0L22 or later)		Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		
			Direct/ via switch	PCI-Express	PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	See Instruction for use	See Instruction for use	See Instruction for use		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		
			Direct/ via switch (see Instruction for use)	PCI-Express	PY-FC221/PY-FC221L PYBFC221/PYBFC221L PY-FC222/PY-FC222L PYBFC222/PYBFC222L S26361-F4994-L501/ S26361-F4994-E1/ S26361-F4994-L502/ S26361-F4994-E2	See Instruction for use	See Instruction for use	See Instruction for use		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. When using EMPD and connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower. Please refer to PRIMERGY handbook or System configuration guide for detail information. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.	
										DeviceMapper	Yes	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)			
			via switch	PCI-Express	PY-FCD12/ PYBFCD121/PYBFCD122 S26361-F4994-E402/ S26361-F4994-L402	See Instruction for use	See Instruction for use	See Instruction for use		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.	
			Direct/ via switch	PCI-Express	MC-FC82E PG-FCD202/PY-FCD02 S26361-F3874-L1 Note 1	See Instruction for use	See Instruction for use	See Instruction for use		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)		

Note 1: For connection with ETERNUS DX, FC switch blade or FC Pass-Thru Blade is required.

Linux	OS (Kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMERGY	RH6 (x86)	Red Hat Enterprise Linux 6 [2.6.32-358.el6] (for x86) RHEL6.4	Direct/ via switch	PCI-Express	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	2.12a6	2.82a4	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L47 or later)	Supported (V10L47 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L47 or later)	Supported (V10L47 or later)	
			Direct/ via switch	PCI-Express	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	5.12a2	2.00a4	OS bundled		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L47 or later)	Supported (V10L47 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L47 or later)	Supported (V10L47 or later)	
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16	-	OS bundled		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L47 or later)	Supported (V10L47 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L47 or later)	Supported (V10L47 or later)	
			Direct/ via switch	PCI-Express	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E01 S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202	See instruction for use	See instruction for use	See instruction for use		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
										DeviceMapper		Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PCI-Express	PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	See instruction for use	See instruction for use	See instruction for use		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
										DeviceMapper		Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch (see instruction for use)	PCI-Express	PY-FC221/PY-FC221L PYBFC221/PYBFC221L PY-FC222/PY-FC222L PYBFC222/PYBFC222L S26361-F4994-L501/ S26361-F4994-E1/ S26361-F4994-L502/ S26361-F4994-E2	6.01a15	1.21.106	OS bundled		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	- When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
			via switch	PCI-Express	PY-FC012/ PYBFC012/PYBFC0122 S26361-F4994-E402/ S26361-F4994-L402	6.01a15	1.21.106	OS bundled		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
			Direct/ via switch	PCI-Express	MC-FC82E PG-FC0202/PY-FC002 S26361-F3874-L1 Note 1	3.11a5	2.00a4	OS bundled		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L47 or later)	Supported (V10L47 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L47 or later)	Supported (V10L47 or later)	
	RH6 (x86)	Red Hat Enterprise Linux 6 [2.6.32-279.el6] (for x86) RHEL6.3	Direct/ via switch	PCI-Express	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	2.12a6	2.82a4	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
										DeviceMapper		Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	3.11a5, 5.12a2 or later	2.00a4 or later	OS bundled		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
										DeviceMapper		Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16 or later	-	OS bundled		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
										DeviceMapper		Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	
			Direct/ via switch (see instruction for use)	PCI-Express	PY-FC221/PY-FC221L PYBFC221/PYBFC221L PY-FC222/PY-FC222L PYBFC222/PYBFC222L S26361-F4994-L501/ S26361-F4994-E1/ S26361-F4994-L502/ S26361-F4994-E2	6.01a15	1.21.106	OS bundled		EMPD (V2.0L24 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	- When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
			via switch	PCI-Express	PY-FC012/ PYBFC012/PYBFC0122 S26361-F4994-E402/ S26361-F4994-L402	6.01a15	1.21.106	OS bundled		EMPD (V2.0L24 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
			Direct/ via switch	PCI-Express	MC-FC82E PG-FC0202/PY-FC002 S26361-F3874-L1 Note 1	3.11a5	2.00a4	OS bundled		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
										DeviceMapper		Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	

Note 1: For connection with ETERNUS DX, FC switch blade or FC Pass-Thru Blade is required.

Linux	OS (Kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMERGY	RHEL 6 (x86)	Red Hat Enterprise Linux 6 (for x86) RHEL6.2	Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L	2.12a6	2.82a4	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x	Yes	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	Please apply errata (RHSA-2012-0052) provided by RHEL. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
										DeviceMapper	PRIMECLUSTER LifeKeeper8.x	Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	Please apply errata (RHSA-2012-0052) provided by RHEL.
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2A.202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	3.11a5, 5.12a2 or later	2.00a4	OS bundled		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x	Yes	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	Please apply errata (RHSA-2012-0052) provided by RHEL. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
										DeviceMapper	PRIMECLUSTER LifeKeeper8.x	Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	Please apply errata (RHSA-2012-0052) provided by RHEL.
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16	-	OS bundled		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x	Yes	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	Please apply errata (RHSA-2012-0052) provided by RHEL. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
										DeviceMapper	PRIMECLUSTER LifeKeeper8.x	Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	Please apply errata (RHSA-2012-0052) provided by RHEL.
			Direct/ via switch	PCI-Express	MC-FC82E PG-FCD202/PY-FCD02 S26361-F3874-L1 Note 1	3.11a5	2.00a4	OS bundled		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x	Yes	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	Please apply errata (RHSA-2012-0052) provided by RHEL. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
										DeviceMapper	PRIMECLUSTER LifeKeeper8.x	Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	Please apply errata (RHSA-2012-0052) provided by RHEL.
		Red Hat Enterprise Linux 6 (for x86) [2.6.32-131.0.15.el6] RHEL6.1	Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L	2.12a6	2.82a4	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L22 or later)	PCL	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	
										DeviceMapper	PCL	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2A.202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC203/PY-FC203L/ PY-FC201/PY-FC201L	5.12a2	2.00a4	OS bundled		EMPD (V2.0L22 or later)	PCL	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	
										DeviceMapper	PCL	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3306-L601 PG-FCD201 Note 1	1.70a3 3.03a2 3.03a9 3.03a11	2.70x6 2.72a2 2.80a4 2.82a3	OS bundled		EMPD (V2.0L22 or later)	PCL	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	
										DeviceMapper	PCL	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	MC-FC82E PG-FCD202/PY-FCD02 S26361-F3874-L1 Note 1	3.11a5	2.00a4	OS bundled		EMPD (V2.0L22 or later)	PCL	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	
										DeviceMapper	PCL	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16	-	OS bundled		EMPD (V2.0L22 or later)	PCL	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	
										DeviceMapper	PCL	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	
		Red Hat Enterprise Linux 6 (for x86) [2.6.32-71.el6] RHEL6.0	Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L	1.70a3 2.01a2 2.02a2	2.50a6 2.72a2 2.82a3	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD	PCL	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
										DeviceMapper	PCL	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2A.202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	5.12a2 2.02a2 2.02a2	2.00a4 1.10a5 1.11a5 1.10a5 1.11a5	OS bundled OS bundled OS bundled		EMPD (V2.0L22 or later)	PCL	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
										DeviceMapper	PCL	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3306-L601 PG-FCD201 Note 1	1.70a3 3.03a2 3.03a9 3.03a11	2.70x6 2.72a2 2.80a4 2.82a3	OS bundled		EMPD	PCL	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
										DeviceMapper	PCL	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	MC-FC82E PG-FCD202/PY-FCD02 S26361-F3874-L1 Note 1	3.11a5 3.03a11 3.11a5	2.00a4 1.11a5	OS bundled OS bundled		EMPD (V2.0L21 or later)	PCL	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
										DeviceMapper	PCL	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16	-	OS bundled		EMPD	PCL	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
										DeviceMapper	PCL	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	

Note 1: For connection with ETERNUS DX, FC switch blade or FC Pass-Thru Blade is required.

LINUX	OS (Kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use	
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA		
PRIMERGY	Red Hat Enterprise Linux 6 [2.6.32-642.el6] (for Intel64) RHEL6.8	Direct/ via switch	PCI-Express		S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	See instruction for use	See instruction for use	See instruction for use	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L27 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY.	
													Planned 2	Planned 2	Planned 2		
					PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	See instruction for use	See instruction for use	See instruction for use		EMPD (V2.0L27 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY.	
													Planned 2	Planned 2	Planned 2		
		Direct/ via switch	PCI-Express		S26361-F3306-L1A.201/ PG-FC202/PG-FC202L	See instruction for use	See instruction for use	See instruction for use	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L27 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY.	
													Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		
					S26361-F3961-L1L.201/ S26361-F3961-L2L.202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201L/PY-FC201L	See instruction for use	See instruction for use	See instruction for use		EMPD (V2.0L27 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY.	
													Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		
		Direct/ via switch	PCI-Express		S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	See instruction for use	See instruction for use	See instruction for use		EMPD (V2.0L27 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY.	
													Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		
					PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201 S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202	See instruction for use	See instruction for use	See instruction for use		EMPD (V2.0L27 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY.	
													Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		
	Red Hat Enterprise Linux 6 [2.6.32-573.el6] (for Intel64) RHEL6.7 & KVM	Direct/ via switch	PCI-Express		PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	See instruction for use	See instruction for use	See instruction for use	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L27 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY.	
													Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		
					PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	See instruction for use	See instruction for use	See instruction for use		EMPD (V2.0L27 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY.	
													Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		
		Direct/ via switch (see instruction for use)	PCI-Express		PY-FC221/PY-FC221L PYBFC221/PYBFC221L PY-FC222/PY-FC222L PYBFC222/PYBFC222L S26361-F4994-L501/ S26361-F4994-E1/ S26361-F4994-L502/ S26361-F4994-E2	See instruction for use	See instruction for use	See instruction for use		EMPD (V2.0L27 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. When using EMPD and LifeKeeper at the same time, please refer to PRIMERGY handbook or System configuration guide for detail information.	
													Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		
					PY-FCD12/ PYBFCD121/PYBFCD122 S26361-F4994-E402/ S26361-F4994-L402	See instruction for use	See instruction for use	See instruction for use		EMPD (V2.0L27 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY.	
													Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		
		Direct/ via switch	PCI-Express		MC-FC82E PG-FCD202/PY-FCD02 S26361-F3874-L1 Note 1	See instruction for use	See instruction for use	See instruction for use		EMPD (V2.0L27 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.	
													Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		
										VxWM 6.0.3 or later	VCS 6.0.3 or later	No	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. ETERNUS's Thin Provisioning function is not supported.	
													Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		

Note 1: For connection with ETERNUS DX, FC switch blade or FC Pass-Thru Blade is required.

LINUX	OS (Kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMERGY	RHEL 6 (Intel64)	Red Hat Enterprise Linux 6 [2.6.32-504.el6] (for Intel64) RHEL6.6 & KVM	Direct/ via switch	PCI-Express	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	See Instruction for use	See Instruction for use	See Instruction for use	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
													DeviceMapper	Yes	Supported (V20L14 or later)	
			VxVM 6.0.3 or later	VCS 6.0.3 or later	No	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)		Please use BIOS/Firmware/Driver which are supported by PRIMERGY. ETERNUS's Thin Provisioning function is not supported.						
			Direct/ via switch	PCI-Express	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	See Instruction for use	See Instruction for use	See Instruction for use		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
													DeviceMapper	Yes	Supported (V20L14 or later)	
			VxVM 6.0.3 or later	VCS 6.0.3 or later	No	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)		Please use BIOS/Firmware/Driver which are supported by PRIMERGY. ETERNUS's Thin Provisioning function is not supported.						
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	See Instruction for use	See Instruction for use	See Instruction for use		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
													DeviceMapper	Yes	Supported (V20L14 or later)	
			VxVM 6.0.3 or later	VCS 6.0.3 or later	No	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)		Please use BIOS/Firmware/Driver which are supported by PRIMERGY. ETERNUS's Thin Provisioning function is not supported.						
			Direct/ via switch	PCI-Express	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E201 S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202	See Instruction for use	See Instruction for use	See Instruction for use		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L16 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
													DeviceMapper	Yes	Supported (V20L16 or later)	
			VxVM 6.0.3 or later	VCS 6.0.3 or later	No	Supported (V20L16 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)		Please use BIOS/Firmware/Driver which are supported by PRIMERGY. ETERNUS's Thin Provisioning function is not supported.						
			Direct/ via switch	PCI-Express	PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	See Instruction for use	See Instruction for use	See Instruction for use		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L16 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
													DeviceMapper	Yes	Supported (V20L16 or later)	
			VxVM 6.0.3 or later	VCS 6.0.3 or later	No	Supported (V20L16 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)		Please use BIOS/Firmware/Driver which are supported by PRIMERGY. ETERNUS's Thin Provisioning function is not supported.						
			Direct/ via switch (see Instruction for use)	PCI-Express	PY-FC221/PY-FC221L PYBFC221/PYBFC221L PY-FC222/PY-FC222L PYBFC222/PYBFC222L S26361-F4994-L501/ S26361-F4994-E1/ S26361-F4994-L502/ S26361-F4994-E2	See Instruction for use	See Instruction for use	See Instruction for use		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
													DeviceMapper	Yes	Supported (V20L14 or later)	
			VxVM 6.0.3 or later	VCS 6.0.3 or later	No	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)		Please use BIOS/Firmware/Driver which are supported by PRIMERGY. ETERNUS's Thin Provisioning function is not supported.						
			via switch	PCI-Express	PY-FCD12/ PYBFCD121/PYBFCD122 S26361-F4994-E402/ S26361-F4994-L402	See Instruction for use	See Instruction for use	See Instruction for use		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
													DeviceMapper	Yes	Supported (V20L14 or later)	
			VxVM 6.0.3 or later	VCS 6.0.3 or later	No	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)		Please use BIOS/Firmware/Driver which are supported by PRIMERGY. ETERNUS's Thin Provisioning function is not supported.						
			Direct/ via switch	PCI-Express	MC-FC82E PG-FCD202/PY-FCD02 S26361-F3874-L1 Note 1	See Instruction for use	See Instruction for use	See Instruction for use		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
													DeviceMapper	Yes	Supported (V20L14 or later)	
			VxVM 6.0.3 or later	VCS 6.0.3 or later	No	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)		Please use BIOS/Firmware/Driver which are supported by PRIMERGY. ETERNUS's Thin Provisioning function is not supported.						

Note 1: For connection with ETERNUS DX, FC switch blade or FC Pass-Thru Blade is required.

LINUX	OS (Kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMERGY	RHEL 6 (Intel64)	Red Hat Enterprise Linux 6 [2.6.32-431.el6] (for Intel64) RHEL6.5 & KVM	Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L	See Instruction for use	See Instruction for use	See Instruction for use	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	
										VxVM 6.0.3 or later	VCS 6.0.3 or later	No	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. ETERNUS's Thin Provisioning function is not supported.
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2A.202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	See Instruction for use	See Instruction for use	See Instruction for use		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	
										VxVM 6.0.3 or later	VCS 6.0.3 or later	No	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. ETERNUS's Thin Provisioning function is not supported.
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	See Instruction for use	See Instruction for use	See Instruction for use		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	
										VxVM 6.0.3 or later	VCS 6.0.3 or later	No	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. ETERNUS's Thin Provisioning function is not supported.
			Direct/ via switch	PCI-Express	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201 S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202	See Instruction for use	See Instruction for use	See Instruction for use		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
										DeviceMapper		Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										VxVM 6.0.3 or later	VCS 6.0.3 or later	No	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. ETERNUS's Thin Provisioning function is not supported.
			Direct/ via switch	PCI-Express	PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	See Instruction for use	See Instruction for use	See Instruction for use		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
										DeviceMapper		Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										VxVM 6.0.3 or later	VCS 6.0.3 or later	No	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. ETERNUS's Thin Provisioning function is not supported.
			Direct/ via switch (see Instruction for use)	PCI-Express	PY-FC221/PY-FC221L PYBFC221/PYBFC221L PY-FC222/PY-FC222L PYBFC222/PYBFC222L S26361-F4994-L501/ S26361-F4994-E1/ S26361-F4994-L502/ S26361-F4994-E2	See Instruction for use	See Instruction for use	See Instruction for use		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	
										VxVM 6.0.3 or later	VCS 6.0.3 or later	No	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. ETERNUS's Thin Provisioning function is not supported.
			via switch	PCI-Express	PY-FCD12/ PYBFCD121/PYBFCD122 S26361-F4994-E402/ S26361-F4994-L402	See Instruction for use	See Instruction for use	See Instruction for use		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	
										VxVM 6.0.3 or later	VCS 6.0.3 or later	No	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. ETERNUS's Thin Provisioning function is not supported.
			Direct/ via switch	PCI-Express	MC-FC82E PG-FCD202/PY-FCD02 S26361-F3874-L1 Note 1	See Instruction for use	See Instruction for use	See Instruction for use		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	
										VxVM 6.0.3 or later	VCS 6.0.3 or later	No	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. ETERNUS's Thin Provisioning function is not supported.

Note 1: For connection with ETERNUS DX, FC switch blade or FC Pass-Thru Blade is required.

LINUX	OS (Kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMERGY	RHEL 6 (Intel®64)	Red Hat Enterprise Linux 6 [2.6.32-358.el6] (for Intel®64) RHEL6.4 & KVM	Direct/ via switch	PCI-Express	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	2.12a6	2.82a4	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper®.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L47 or later)	Supported (V10L47 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L47 or later)	Supported (V10L47 or later)	
										VxVM 6.0.3 or later	VCS 6.0.3 or later	No	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	ETERNUS's Thin Provisioning function is not supported.
			Direct/ via switch	PCI-Express	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	5.12a2	2.00a4	OS bundled		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper®.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L47 or later)	Supported (V10L47 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L47 or later)	Supported (V10L47 or later)	ETERNUS's Thin Provisioning function is not supported.
										VxVM 6.0.3 or later	VCS 6.0.3 or later	No	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L1/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16	-	OS bundled		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper®.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L47 or later)	Supported (V10L47 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L47 or later)	Supported (V10L47 or later)	
										VxVM 6.0.3 or later	VCS 6.0.3 or later	No	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	ETERNUS's Thin Provisioning function is not supported.
			Direct/ via switch	PCI-Express	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201 S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202	See instruction for use	See instruction for use	See instruction for use		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper®.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
										DeviceMapper		Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										VxVM 6.0.3 or later	VCS 6.0.3 or later	No	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. ETERNUS's Thin Provisioning function is not supported.
			Direct/ via switch	PCI-Express	PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	See instruction for use	See instruction for use	See instruction for use		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper®.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										DeviceMapper		Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. ETERNUS's Thin Provisioning function is not supported.
										VxVM 6.0.3 or later	VCS 6.0.3 or later	No	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch (see instruction for use)	PCI-Express	PY-FC221/PY-FC221L PYBFC221/PYBFC221L PY-FC222/PY-FC222L PYBFC222/PYBFC222L S26361-F4994-L501/ S26361-F4994-E1/ S26361-F4994-L502/ S26361-F4994-E2	6.01a15	1.21.106	OS bundled		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper®.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	- When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
										VxVM 6.0.3 or later	VCS 6.0.3 or later	No	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	- When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower. ETERNUS's Thin Provisioning function is not supported.
			via switch	PCI-Express	PY-FCD12/ PYBFCD12/PYBFCD122 S26361-F4994-E402/ S26361-F4994-L402	6.01a15	1.21.106	OS bundled		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper®.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	ETERNUS's Thin Provisioning function is not supported.
										VxVM 6.0.3 or later	VCS 6.0.3 or later	No	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
			Direct/ via switch	PCI-Express	MC-FC82E PG-PCD202/PY-PCD02 S26361-F3874-L1 Note 1	3.11a5	2.00a4	OS bundled		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper®.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L47 or later)	Supported (V10L47 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L47 or later)	Supported (V10L47 or later)	
										VxVM 6.0.3 or later	VCS 6.0.3 or later	No	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	ETERNUS's Thin Provisioning function is not supported.

Note 1: For connection with ETERNUS DX, FC switch blade or FC Pass-Thru Blade is required.

LINUX	OS (Kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use	
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA		
PRIMERGY	RHEL 6 (Intel64)	Red Hat Enterprise Linux 6 [2.6.32-279.el6] (for Intel64) RHEL6.3 & KVM	Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L	2.12a6	2.82a4	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x	Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.	
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.202/ S26361-F3961-L2L.202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	3.11a5, 5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle RAC 11gR2/12cR1	Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)		
										VxVM 6.0.1 or later	VCS 6.0.1 or later	No	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	ETERNUS's Thin Provisioning function is not supported.	
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16 or later	-	OS bundled		EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x	Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.	
										DeviceMapper	Oracle RAC 11gR2/12cR1	Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)		
			Direct/ via switch (see Instruction for use)	PCI-Express	PY-FC221/PY-FC221L PYBFC221/PYBFC221L PY-FC222/PY-FC222L PYBFC222/PYBFC222L S26361-F4994-L501/ S26361-F4994-E1/ S26361-F4994-L502/ S26361-F4994-E2	6.01a15 or later	1.21.106 or later	OS bundled		VxVM 6.0.1 or later	VCS 6.0.1 or later	No	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	ETERNUS's Thin Provisioning function is not supported.	
										EMPD (V2.0L24 or later)	PRIMECLUSTER LifeKeeper8.x	Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	- When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.	
			via switch	PCI-Express	PY-FCD12/ PYBFCD121/PYBFCD122 S26361-F4994-E402/ S26361-F4994-L402	6.01a15 or later	1.21.106 or later	OS bundled		DeviceMapper	Oracle RAC 11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	- When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower. ETERNUS's Thin Provisioning function is not supported.	
										VxVM 6.0.1 or later	VCS 6.0.1 or later	No	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	ETERNUS's Thin Provisioning function is not supported.	
			Direct/ via switch	PCI-Express	MC-FC82E PG-FCD202/PY-FCD02 S26361-F3874-L1 Note 1	3.11a5	2.00a4	OS bundled		Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper8.x Oracle RAC 11gR2/12cR1	Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
			Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L	2.12a6	2.82a4	OS bundled			EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper 8.x	Yes	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2L.202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	3.11a5, 5.12a2 or later	2.00a4	OS bundled			DeviceMapper	PRIMECLUSTER LifeKeeper 8.x	Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
		VxVM 6.0 or later							VCS 6.0 or later		No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	Thin Provisioning function of ETERNUS is not supported.		
		Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16	-	OS bundled	EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper 8.x		Yes	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.		
								DeviceMapper	PRIMECLUSTER LifeKeeper 8.x		Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)			
		Direct/ via switch	PCI-Express	MC-FC82E PG-FCD202/PY-FCD02 S26361-F3874-L1 Note 1	3.11a5	2.00a4	OS bundled	VxVM 6.0 or later	VCS 6.0 or later		No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	Thin Provisioning function of ETERNUS is not supported.		
								EMPD (V2.0L22 or later)	PRIMECLUSTER LifeKeeper 8.x	Yes	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.			
		Direct/ via switch	PCI-Express	MC-FC82E PG-FCD202/PY-FCD02 S26361-F3874-L1 Note 1	3.11a5	2.00a4	OS bundled	DeviceMapper	PRIMECLUSTER LifeKeeper 8.x	Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)				
								VxVM 6.0 or later	VCS 6.0 or later	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	Thin Provisioning function of ETERNUS is not supported.			

Note 1: For connection with ETERNUS DX, FC switch blade or FC Pass-Thru Blade is required.

LINUX	OS (Kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMERGY	Red Hat Enterprise Linux 6 (for Intel64) [2.6.32-131.0.15.el6] RHEL6.1 & KVM	RHEL 6 (Intel64)	Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L	2.12a6	2.82a4	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L22 or later)	PCL	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2A.202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	5.12a2	2.00a4	OS bundled		DeviceMapper	PCL	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	
						2.12a6	2.00a4	OS bundled		EMPD (V2.0L22 or later)	PCL	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3306-L601 PG-FCD201 Note 1	1.70a3 3.03a2 3.03a9 3.03a11	2.70x6 2.72a2 2.80a4 2.82a3	OS bundled		DeviceMapper	PCL	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	MC-FC82E PG-FCD202/PY-FCD02 S26361-F3874-L1 Note 1	3.11a5	2.00a4	OS bundled		EMPD (V2.0L22 or later)	PCL	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	
						2.12a6	2.00a4	OS bundled		DeviceMapper	PCL	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16	-	OS bundled		VxVM 6.0 or later	VCS 6.0 or later	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
						2.16	-	OS bundled		EMPD (V2.0L22 or later)	PCL	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16	-	OS bundled		DeviceMapper	PCL	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	
						2.16	-	OS bundled		VxVM 6.0 or later	VCS 6.0 or later	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
	Red Hat Enterprise Linux 6 (for Intel64) [2.6.32-71.el6] RHEL6.0 & KVM	RHEL 6 (Intel64)	Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L	1.70a3 2.01a2 2.02a2	2.50a6 2.72a2 2.82a3	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD	PCL	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2A.202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	5.12a2	2.00a4	OS bundled		DeviceMapper	PCL	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
						2.02a2	1.10a5 1.11a5	OS bundled		VxVM 5.1 SP1RP2	VCS 5.1	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
						2.02a2	1.10a5 1.11a5	OS bundled		EMPD (V2.0L21 or later)	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
						2.02a2	1.10a5 1.11a5	OS bundled		EMPD	PCL	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3306-L601 PG-FCD201 Note 1	1.70a3 3.03a2 3.03a9 3.03a11	2.70x6 2.72a2 2.80a4 2.82a3	OS bundled		DeviceMapper	PCL	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
						3.11a5	2.00a4	OS bundled		VxVM 5.1 SP1RP2	VCS 5.1	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	MC-FC82E PG-FCD202/PY-FCD02 S26361-F3874-L1 Note 1	3.03a11 3.11a5	1.11a5	OS bundled		EMPD	PCL	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
						3.03a11 3.11a5	1.11a5	OS bundled		DeviceMapper	PCL	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
						3.03a11 3.11a5	1.11a5	OS bundled		VxVM 5.1 SP1RP2	VCS 5.1	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
						2.16	-	OS bundled		EMPD (V2.0L21 or later)	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	3.03a11 3.11a5	1.11a5	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD	PCL	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
						2.16	-	OS bundled		DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16	-	OS bundled		VxVM 5.1 SP1RP2	VCS 5.1	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
						2.16	-	OS bundled		EMPD	PCL	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	

Note 1: For connection with ETERNUS DX, FC switch blade or FC Pass-Thru Blade is required.

LINUX	OS (Kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMERGY	RHEL 5 (x86)	Red Hat Enterprise Linux 5.10 (for x86) [2.6.18-371.el5] RHEL5.10	Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L	See note 2	See note 2	See note 2	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L22 or later)	PRIMECLUSTER OracleRAC 10gR2 LifeKeeper8.x	Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
										DeviceMapper	Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)		
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2A.202/ PG-FC203/PG-FC203L PY-FC201/PY-FC201L PYBFC201/PYBFC201L PG-FC204/PG-FC204L PY-FC202/PY-FC202L PYBFC202/PYBFC202L	See note 2	See note 2	See note 2		EMPD (V2.0L22 or later)	PRIMECLUSTER OracleRAC 10gR2 LifeKeeper8.x	Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
										DeviceMapper	Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)		
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L PY-FC211/PY-FC211L PYBFC211/PYBFC211L PG-FC206/PG-FC206L PY-FC212/PY-FC212L PYBFC212/PYBFC212L	See note 2	See note 2	See note 2		EMPD (V2.0L22 or later)	PRIMECLUSTER OracleRAC 10gR2 LifeKeeper8.x	Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
										DeviceMapper	Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)		
			Direct/ via switch (see Instruction for use column)	PCI-Express	PY-FC221/PY-FC221L PYBFC221/PYBFC221L PY-FC222/PY-FC222L PYBFC222/PYBFC222L S26361-F4994-L501/ S26361-F4994-E1/ S26361-F4994-L502/ S26361-F4994-E2	See note 2	See note 2	See note 2		EMPD (V2.0L24 or later)	PRIMECLUSTER OracleRAC 10gR2 LifeKeeper8.x	Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later. When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.
										DeviceMapper	Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.	
			via switch	PCI-Express	PY-FC212/PYBFC212L S26361-F4994-E402/ S26361-F4994-L402	See note 2	See note 2	See note 2		EMPD (V2.0L24 or later)	PRIMECLUSTER OracleRAC 10gR2 LifeKeeper8.x	Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
										DeviceMapper	Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)		
			Direct/ via switch	PCI-Express	MC-FC82E PG-FC202/PY-FC202 S26361-F3874-L1 Note 1	See note 2	See note 2	See note 2		EMPD (V2.0L22 or later)	PRIMECLUSTER OracleRAC 10gR2 LifeKeeper8.x	Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
										DeviceMapper	Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)		
		Red Hat Enterprise Linux 5.9 (for x86) [2.6.18-348.el5] RHEL5.9	Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L	2.12a6 6.30a1	2.82a4 2.01a10	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L22 or later)	PRIMECLUSTER OracleRAC 10gR2 LifeKeeper8.x	Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later. Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
								DeviceMapper		Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.		
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2A.202/ PG-FC203/PG-FC203L PY-FC201/PY-FC201L PYBFC201/PYBFC201L PG-FC204/PG-FC204L PY-FC202/PY-FC202L PYBFC202/PYBFC202L	5.12a2	2.00a4	OS bundled		EMPD (V2.0L22 or later)	PRIMECLUSTER OracleRAC 10gR2 LifeKeeper8.x	Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later. Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
								DeviceMapper		Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.		
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L PY-FC211/PY-FC211L PYBFC211/PYBFC211L PG-FC206/PG-FC206L PY-FC212/PY-FC212L PYBFC212/PYBFC212L	2.16	-	OS bundled		EMPD (V2.0L22 or later)	PRIMECLUSTER OracleRAC 10gR2 LifeKeeper8.x	Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later. Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
								DeviceMapper		Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.		
			Direct/ via switch	PCI-Express	MC-FC82E PG-FC202/PY-FC202 S26361-F3874-L1 Note 1	3.11a5	2.00a4	OS bundled		EMPD (V2.0L22 or later)	PRIMECLUSTER OracleRAC 10gR2 LifeKeeper8.x	Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later. Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
								DeviceMapper		Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.		
		Red Hat Enterprise Linux 5.8 (for x86) [2.6.18-308.el5] RHEL5.8	Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L	2.12a6	2.82a4	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L22 or later)	PRIMECLUSTER OracleRAC 10gR2 LifeKeeper8.x	Yes	Supported (V20L12 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
								DeviceMapper		Yes	Supported (V20L12 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.		
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2A.202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	5.12a2 or later 3.11a5	2.00a4	OS bundled		EMPD (V2.0L22 or later)	PRIMECLUSTER OracleRAC 10gR2 LifeKeeper8.x	Yes	Supported (V20L12 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
								DeviceMapper		Yes	Supported (V20L12 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.		
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16	-	OS bundled		EMPD (V2.0L22 or later)	PRIMECLUSTER OracleRAC 10gR2 LifeKeeper8.x	Yes	Supported (V20L12 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
								DeviceMapper		Yes	Supported (V20L12 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.		
			Direct/ via switch	PCI-Express	MC-FC82E PG-FC202/PY-FC202 S26361-F3874-L1 Note 1	3.11a5	2.00a4	OS bundled		EMPD (V2.0L22 or later)	PRIMECLUSTER OracleRAC 10gR2 LifeKeeper8.x	Yes	Supported (V20L12 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
								DeviceMapper		Yes	Supported (V20L12 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.		

Note 1: For connection with ETERNUS DX, FC switch blade or FC Pass-Thru Blade is required.

Note 2: Please use BIOS/Firmware/Driver which are supported by PRIMERGY.

LINUX	OS (Kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMERGY	RHEL 5 (x86)	Red Hat Enterprise Linux 5 (for x86) [2.6.18-274.el5] RHEL5.7	Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L	2.12a6	2.82a4	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD	PRIMECLUSTER OracleRAC 10gR2 LifeKeeper8.x	Yes	Supported (V20L11 or later)	Supported (V10L19 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
										DeviceMapper		Yes	Supported (V20L11 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2L.202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	5.12a2	2.00a4	OS bundled		EMPD	PRIMECLUSTER OracleRAC 10gR2 LifeKeeper8.x	Yes	Supported (V20L11 or later)	Supported (V10L19 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
										DeviceMapper		Yes	Supported (V20L11 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16	-	OS bundled		EMPD	PRIMECLUSTER OracleRAC 10gR2 LifeKeeper8.x	Yes	Supported (V20L11 or later)	Supported (V10L19 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
										DeviceMapper		Yes	Supported (V20L11 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
			via switch	PCI-Express	MC-FC82E PG-FCD202/PY-FCD02 S26361-F3874-L1 Note 1	3.11a5	2.00a4	OS bundled		EMPD	PRIMECLUSTER OracleRAC 10gR2 LifeKeeper8.x	Yes	Supported (V20L11 or later)	Supported (V10L19 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
										DeviceMapper		Yes	Supported (V20L11 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
		Red Hat Enterprise Linux 5 (for x86) [2.6.18-238.el5] RHEL5.6	Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L	2.12a6	2.82a4	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L21 or later)	OracleRAC 10gR2	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
						2.12a6	2.82a4	OS bundled		DeviceMapper	-	No	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2L.202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	5.12a2	2.00a4	OS bundled		EMPD (V2.0L21 or later)	PCL 4.3A00 OracleRAC 10gR2	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
						5.12a2	2.00a4	OS bundled		DeviceMapper	-	No	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3306-L601 PG-FCD201 Note 1	3.03a11	2.82a4	OS bundled		EMPD (V2.0L21 or later)	OracleRAC 10gR2	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
						3.03a11	2.82a4	OS bundled		DeviceMapper	-	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			via switch	PCI-Express	MC-FC82E PG-FCD202/PY-FCD02 S26361-F3874-L1 Note 1	3.11a5	2.00a4	OS bundled		EMPD (V2.0L21 or later)	PCL 4.3A00 OracleRAC 10gR2	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
						3.11a5	2.00a4	OS bundled		DeviceMapper	-	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16	-	OS bundled		EMPD	PCL OracleRAC 10gR2	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
										DeviceMapper	-	No	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
		Red Hat Enterprise Linux 5 (for x86) [2.6.18-194.el5] RHEL5.5	Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L	1.70a3 2.01a2 2.02a2	2.50a6 2.72a2 2.80a4 2.82a3	8.2.0.63.3p	Refer to "Switch pages" for supported FC switches.	EMPD	PCL 4.3A00 OracleRAC 10gR2	Yes (see Instruction for use)	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	When using SAN boot function, please change HBA's Firmware and BootBIOS to 2.82a3 and 2.02a2. Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
						2.12a6	2.82a4	OS bundled		EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2L.202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	2.02a2	1.10a5 1.11a5	8.2.0.63.3p		EMPD (V2.0L23 or later)	PCL 4.3A00 OracleRAC 10gR2	Yes (see Instruction for use)	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	When using SAN boot function, please change HBA's Firmware and BootBIOS to 1.11a5 and 2.02a2. Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
						5.12a2	2.00a4	OS bundled		EMPD (V2.0L23 or later)	LifeKeeper 7.5f8.x	No	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3306-L601 PG-FCD201 Note 1	1.70a3 3.03a2 3.03a9 3.03a11	2.70x6 2.72a2 2.80a4 2.82a3	8.2.0.63.3p		EMPD (V2.0L21 or later)	PCL 4.3A00 OracleRAC 10gR2	Yes (see Instruction for use)	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	When using SAN boot function, please change BootBIOS to 3.03a2. Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
						3.03a11	2.82a4	OS bundled		EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			via switch	PCI-Express	MC-FC82E PG-FCD202/PY-FCD02 S26361-F3874-L1 Note 1	1.70a3 3.03a2 3.03a9 3.03a11	2.70x6 2.72a2 2.80a4 2.82a3	8.2.0.63.3p		DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	3.03a11 3.11a5	1.11a5	8.2.0.63.3p		EMPD	PCL 4.3A00 OracleRAC 10gR2	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
						3.03a11 3.11a5	1.11a5	OS bundled		DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16	-	8.03.01.04.05.05-k		EMPD	OracleRAC 10gR2	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
										DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	

Note 1: For connection with ETHERNUS DX, FC switch blade or FC Pass-Thru Blade is required.

LINUX	OS (Kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMERGY	RHEL 5 (x86)	Red Hat Enterprise Linux 5 (for x86) [2.6.18-164.el5] RHEL5.4	Direct/ via switch	PCI-Express	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	1.70a3 2.01a2 2.02a2	2.50a6 2.72a2 2.82a3	8.2.0.48.2p	Refer to "Switch pages" for supported FC switches.	EMPD	PCL 4.3A00	Yes (see instruction for use)	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	When SAN boot is used, please use Boot BIOS/Firmware 2.02a2/2.82a3.
			Direct/ via switch	PCI-bus	S26361-F3023-L1/ PG-FCD101/PG-FCD102 Note 1	1.34 1.47	-	8.2.0.48.2p		EMPD	PCL 4.3A00	Yes	Supported (V20L10 or later)	Supported (V10L22 or later)	N.A.	
			Direct/ via switch	PCI-bus	S26361-F3306-L601 PG-FCD201 Note 1	1.70a3 3.03a2 3.03a9 3.03a11	2.70a5 2.70a6 2.72a2 2.82a3	8.2.0.48.2p		EMPD	PCL 4.3A00	Yes (see instruction for use)	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	When using SAN boot, please change HBA's BootBIOS to 3.03a2 or later.
			Direct/ via switch	PCI-Express	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	2.02a2	1.10a5 1.11a5	8.2.0.48.2p		EMPD	PCL 4.3A00	Yes (see instruction for use)	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	When SAN boot is used, please use Boot BIOS/Firmware 2.02a2/1.11a5.
			via switch	PCI-Express	MC-FC82E PG-FCD202/PY-FCD02 Note 1	3.03a11 3.11a5	1.11a5	8.2.0.48.2p		EMPD	PCL 4.3A00	Yes	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16	-	OS bundled		EMPD	PCL 4.3A00 OracleRAC 10gR2	No	Supported (V20L12 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
		Red Hat Enterprise Linux 5 (for x86) [2.6.18-128.el5] RHEL5.3	Direct/ via switch	PCI-Express	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	1.70a3 2.01a2 2.02a2	2.50a6 2.72a2 2.82a3	OS bundled (8.2.0.33.3p)	Refer to "Switch pages" for supported FC switches.	EMPD	PCL	Yes (see instruction for use)	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	When SAN boot is used, please use Boot BIOS/Firmware 2.02a2/2.82a3.
			Direct/ via switch	PCI-bus	S26361-F3023-E1/E2/L2 PG-FCD101/PG-FCD102 Note 1	1.34 1.47	-	OS bundled (8.02.00.06.05.03-k)		EMPD	PCL	Yes	Supported (V20L10 or later)	Supported (V10L22 or later)	N.A.	
			Direct/ via switch	PCI-bus	S26361-F3306-L601 PG-FCD201 Note 1	1.70a3 3.03a2 3.03a9 3.03a11	2.70a5 2.70a6 2.72a2 2.82a3	OS bundled (8.2.0.33.3p)		EMPD	PCL	Yes	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	When using SAN boot, please change HBA's BootBIOS to 3.03a2 or later.
			Direct/ via switch	PCI-Express	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	2.02a2	1.10a5 1.11a5	OS bundled (8.2.0.33.3p)		EMPD	PCL	Yes (see instruction for use)	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	When SAN boot is used, please use Boot BIOS/Firmware 2.02a2/1.11a5.
			via switch	PCI-Express	MC-FC82E PG-FCD202/PY-FCD02 Note 1	3.03a11 3.11a5	1.11a5	OS bundled (8.2.0.33.3p)		EMPD	PCL 4.3A00	Yes	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	
		RedHat Enterprise Linux 5 (for x86) [2.6.18-92.el5] RHEL5.2	Direct/ via switch	PCI-Express	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	2.02a2	1.11a5	8.2.0.22	Refer to "Switch pages" for supported FC switches.	EMPD	PCL 4.3A00	No	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	
		RedHat Enterprise Linux 5 (for x86) [2.6.18-53.el5] RHEL5.1	Direct/ via switch	PCI-Express	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	2.02a2	1.10a5 1.11a5	8.1.10.9		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	

Note 1: For connection with ETERNUS DX, FC switch blade or FC Pass-Thru Blade is required.

LINUX	OS (Kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMERGY	RHEL 5 (Intel64)	Red Hat Enterprise Linux 5.10 (for Intel64) [2.6.18-371.el5] RHEL5.10	Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L	See note 2	See note 2	See note 2	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L22 or later)	PRIMECLUSTER OracleRAC 10gR2 LifeKeeper8.x	Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
										DeviceMapper	Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)		
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2A.202/ PG-FC203/PG-FC203L PY-FC201/PY-FC201L PYBFC201/PYBFC201L PG-FC204/PG-FC204L PY-FC202/PY-FC202L PYBFC202/PYBFC202L	See note 2	See note 2	See note 2		EMPD (V2.0L22 or later)	PRIMECLUSTER OracleRAC 10gR2 LifeKeeper8.x	Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
										DeviceMapper	Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)		
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L PY-FC211/PY-FC211L PYBFC211/PYBFC211L PG-FC206/PG-FC206L PY-FC212/PY-FC212L PYBFC212/PYBFC212L	See note 2	See note 2	See note 2		EMPD (V2.0L22 or later)	PRIMECLUSTER OracleRAC 10gR2 LifeKeeper8.x	Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
										DeviceMapper	Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)		
			Direct/ via switch (see Instruction for use column)	PCI-Express	PY-FC221/PY-FC221L PYBFC221/PYBFC221L PY-FC222/PY-FC222L PYBFC222/PYBFC222L S26361-F4994-L50/ S26361-F4994-E1/ S26361-F4994-L502/ S26361-F4994-E2	See note 2	See note 2	See note 2		EMPD (V2.0L24 or later)	PRIMECLUSTER OracleRAC 10gR2 LifeKeeper8.x	Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later. When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.
										DeviceMapper	Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.	
			via switch	PCI-Express	PY-FC212/ PYBFC212/PYBFC212L S26361-F4994-E402/ S26361-F4994-L402	See note 2	See note 2	See note 2		EMPD (V2.0L24 or later)	PRIMECLUSTER OracleRAC 10gR2 LifeKeeper8.x	Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
										DeviceMapper	Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)		
			Direct/ via switch	PCI-Express	MC-FC82E PG-FC202/PY-FC202 S26361-F3874-L1 Note 1	See note 2	See note 2	See note 2		EMPD (V2.0L22 or later)	PRIMECLUSTER OracleRAC 10gR2 LifeKeeper8.x	Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
										DeviceMapper	Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)		
	RHEL5.9 (Intel64) [2.6.18-348.el5] RHEL5.9	Red Hat Enterprise Linux 5.9 (for Intel64) [2.6.18-348.el5] RHEL5.9	Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L	2.12a6 6.30a1	2.82a4 2.01a10	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L22 or later)	PRIMECLUSTER OracleRAC 10gR2 LifeKeeper8.x	Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	-Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. -When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
								DeviceMapper		Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.		
								VxVM 6.0 or later		VCS 6.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.	
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2A.202/ PG-FC203/PG-FC203L PY-FC201/PY-FC201L PYBFC201/PYBFC201L PG-FC204/PG-FC204L PY-FC202/PY-FC202L PYBFC202/PYBFC202L	5.12a2	2.00a4	OS bundled		EMPD (V2.0L22 or later)	PRIMECLUSTER OracleRAC 10gR2 LifeKeeper8.x	Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	-Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. -When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
								DeviceMapper		Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.		
								VxVM 6.0 or later		VCS 6.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.	
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L PY-FC211/PY-FC211L PYBFC211/PYBFC211L PG-FC206/PG-FC206L PY-FC212/PY-FC212L PYBFC212/PYBFC212L	2.16	-	OS bundled		EMPD (V2.0L22 or later)	PRIMECLUSTER OracleRAC 10gR2 LifeKeeper8.x	Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	-Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. -When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
								DeviceMapper		Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.		
								VxVM 6.0 or later		VCS 6.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.	
			Direct/ via switch	PCI-Express	MC-FC82E PG-FC202/PY-FC202 S26361-F3874-L1 Note 1	3.11a5	2.00a4	OS bundled		EMPD (V2.0L22 or later)	PRIMECLUSTER OracleRAC 10gR2 LifeKeeper8.x	Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	-Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. -When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
								DeviceMapper		Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.		
								VxVM 6.0 or later		VCS 6.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.	

Note 1: For connection with ETERNUS DX, FC switch blade or FC Pass-Thru Blade is required.

Note 2: Please use BIOS/Firmware/Driver which are supported by PRIMERGY.

Note 1: For connection with ETERNUS DX, FC switch blade or FC Pass-Thru Blade is required

LINUX	OS (Kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
	model name	BIOS version/ EFI driver version			Firmware version	Driver version	DX60 S2	DX80 S2 DX90 S2					DX80 S2 DX90 S2 16Gbps CA			
PRIMERGY	RHEL 5 (Intel®64)	Red Hat Enterprise Linux 5 (for Intel®64) [2.6.18-194.el5] RHEL5.5	Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L	1.70a3 2.01a2 2.02a2	2.50a6 2.72a2 2.80a4 2.82a3	OS bundled (8.2.0.63.3p)	Refer to "Switch pages" for supported FC switches.	EMPD	PCL 4.3A00 OracleRAC 10gR2	Yes (see Instruction for use)	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	When using SAN boot function, please change HBA's Firmware and BootBIOS to 2.82a3 and 2.02a2. Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
						2.12a6	2.82a4	OS bundled (8.2.0.63.3p)		EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
						2.02a2	2.82a3	OS bundled (8.2.0.63.3p)		VxVM 5.1	VCS 5.1	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
						2.02a2	2.82a3	OS bundled (8.2.0.63.3p)		DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2L.202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	2.02a2	1.10a5 1.11a5	OS bundled (8.2.0.63.3p)		EMPD	PCL 4.3A00 OracleRAC 10gR2	Yes (see Instruction for use)	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	When using SAN boot function, please change HBA's Firmware and BootBIOS to 1.11a5 and 2.02a2. Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
						5.12a2	2.00a4	OS bundled (8.2.0.63.3p)		EMPD (V2.0L23 or later)	LifeKeeper 7.5/8.x	No	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	
						2.02a2	1.11a5	OS bundled (8.2.0.63.3p)		VxVM 5.1	VCS 5.1	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
						2.02a2	1.11a5	OS bundled (8.2.0.63.3p)		DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3306-L601 PG-FC201 Note 1	1.70a3 3.03a2 3.03a9 3.03a11	2.70x6 2.72a2 2.80a4 2.82a3	8.2.0.63.3p		EMPD	PCL 4.3A00 OracleRAC 10gR2	Yes (see Instruction for use)	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	When using SAN boot function, please change BootBIOS to 3.03a2. Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
						3.03a11	2.82a4	OS bundled		EMPD (V2.0L21 or later)	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
						1.70a3 3.03a2 3.03a9 3.03a11	2.70x6 2.72a2 2.80a4 2.82a3	OS bundled (8.2.0.63.3p)		VxVM 5.1	VCS 5.1	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
						3.03a11	2.82a3	OS bundled (8.2.0.63.3p)		DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			via switch	PCI-Express	MC-FC82E PG-FC202/PY-FC202 S26361-F3874-L1 Note 1	3.03a11 3.11a5	1.11a5	8.2.0.63.3p		EMPD	PCL 4.3A00 OracleRAC 10gR2	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
						3.03a11 3.11a5	1.11a5	OS bundled (8.2.0.63.3p)		VxVM 5.1	VCS 5.1	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
						3.03a11 3.11a5	1.11a5	OS bundled (8.2.0.63.3p)		DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
						3.03a11 3.11a5	1.11a5	OS bundled (8.2.0.63.3p)		EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
		Red Hat Enterprise Linux 5 (for Intel®64) [2.6.18-164.el5] RHEL5.4	Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16	-	8.03.01.04.05.05-k	Refer to "Switch pages" for supported FC switches.	EMPD	PCL 4.3A00	Yes (see Instruction for use)	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	When SAN boot is used, please use Boot BIOS/Firmware 2.02a2/2.82a3.
						2.16	-	8.03.01.04.05.05-k								
						2.16	-	8.03.01.04.05.05-k								
						2.16	-	8.03.01.04.05.05-k								
			Direct/ via switch	PCI-bus	S26361-F3306-L601 PG-FC201 Note 1	1.70a3 2.01a2 2.02a2	2.50a6 2.72a2 2.82a3	8.2.0.48.2p		EMPD	PCL 4.3A00	Yes (see Instruction for use)	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	When using SAN boot, please change HBA's BootBIOS to 3.03a2 or later.
						1.34 1.47	-	8.2.0.48.2p								
						1.70a3 3.03a2 3.03a9 3.03a11	2.70a5 2.70x6 2.72a2 2.82a3	8.2.0.48.2p								
						1.70a3 3.03a2 3.03a9 3.03a11	2.70a5 2.70x6 2.72a2 2.82a3	8.2.0.48.2p								
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2A.202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	2.02a2	1.10a5 1.11a5	8.2.0.48.2p		EMPD	PCL 4.3A00	Yes (see Instruction for use)	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	When SAN boot is used, please use Boot BIOS/Firmware 2.02a2/1.11a5.
						2.02a2	1.10a5 1.11a5	8.2.0.48.2p								
						2.02a2	1.10a5 1.11a5	8.2.0.48.2p								
						2.02a2	1.10a5 1.11a5	8.2.0.48.2p								
			via switch	PCI-Express	MC-FC82E PG-FC202/PY-FC202 Note 1	3.03a11 3.11a5	1.11a5	8.2.0.48.2p		EMPD	PCL 4.3A00	Yes	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
						3.03a11 3.11a5	1.11a5	8.2.0.48.2p								
						3.03a11 3.11a5	1.11a5	8.2.0.48.2p								
						3.03a11 3.11a5	1.11a5	8.2.0.48.2p								
Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16	-	OS bundled	EMPD	PCL 4.3A00 OracleRAC 10gR2	No	Supported (V20L12 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.				
			2.02a2	2.82a3	8.2.0.48.2p											
			2.02a2	1.11a5	8.2.0.48.2p											
			2.02a2	1.11a5	8.2.0.48.2p											
Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L	2.02a2	2.82a3	8.2.0.48.2p	VxVM 5.1	VCS 5.1	No	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.				
			2.02a2	1.11a5	8.2.0.48.2p											
			2.02a2	1.11a5	8.2.0.48.2p											
			2.02a2	1.11a5	8.2.0.48.2p											
Direct/ via switch	PCI-bus	S26361-F3306-L601 PG-FC201 Note 1	3.03a11	2.82a3	8.2.0.48.2p	VxVM 5.1	VCS 5.1	No	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.				
			3.03a11	2.82a3	8.2.0.48.2p											
			3.03a11	2.82a3	8.2.0.48.2p											
			3.03a11	2.82a3	8.2.0.48.2p											
Direct/ via switch	PCI-Express	MC-FC82E PG-FC202/PY-FC202 Note 1	3.03a11 3.11a5	1.11a5	8.2.0.48.2p	VxVM 5.1	VCS 5.1	No	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.				
			3.03a11 3.11a5	1.11a5	8.2.0.48.2p											
			3.03a11 3.11a5	1.11a5	8.2.0.48.2p											
			3.03a11 3.11a5	1.11a5	8.2.0.48.2p											

Note 1: For connection with ETERNUS DX, FC switch blade or FC Pass-Thru Blade is required.

LINUX	OS (Kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMERGY	RHEL 5 (Intel®64)	Red Hat Enterprise Linux 5 (for Intel®64) [2.6.18-128.el5] RHEL5.3	Direct/ via switch	PCI-Express	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	1.70a3 2.01a2 2.02a2	2.50a6 2.72a2 2.82a3	OS bundled (8.2.0.33.3p)	Refer to "Switch pages" for supported FC switches.	EMPD	PCL	Yes (see instruction for use)	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	When SAN boot is used, please use Boot BIOS/Firmware 2.02a2/2.82a3.
			Direct/ via switch	PCI-bus	S26361-F3023-L1/ PG-FCD101/PG-FCD102 Note 1	1.34 1.47	-	OS bundled (8.02.00.06.05.03-k)		EMPD	PCL	Yes	Supported (V20L10 or later)	Supported (V10L22 or later)	N.A.	
			Direct/ via switch	PCI-bus	S26361-F3306-L601 PG-FCD201 Note 1	1.70a3 3.03a2 3.03a9 3.03a11	2.70a5 2.70x6 2.72a2 2.82a3	OS bundled (8.2.0.33.3p)		EMPD	PCL	Yes	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	When using SAN boot, please change HBA's BootBIOS to 3.03a2 or later.
			Direct/ via switch	PCI-Express	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	2.02a2	1.10a5 1.11a5	OS bundled (8.2.0.33.3p)		EMPD	PCL	Yes (see instruction for use)	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	When SAN boot is used, please use Boot BIOS/Firmware 2.02a2/1.11a5.
			via switch	PCI-Express	MC-FC82E PG-FCD202/PY-FCD02 Note 1	3.03a11 3.11a5	1.11a5	OS bundled (8.2.0.33.3p)		EMPD	PCL 4.3A00	Yes	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	2.02a2	2.82a3	OS bundled (8.2.0.33.3p)		VxVM 5.1	VCS 5.1	No	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	2.02a2	1.11a5	OS bundled (8.2.0.33.3p)					Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-bus	S26361-F3306-L601 PG-FCD201 Note 1	3.03a11	2.82a3	OS bundled (8.2.0.33.3p)					Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	MC-FC82E PG-FCD202/PY-FCD02 Note 1	3.03a11 3.11a5	1.11a5	OS bundled (8.2.0.33.3p)					Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	
		RedHat Enterprise Linux 5 (for Intel®64) [2.6.18-92.el5] RHEL5.2	Direct/ via switch	PCI-Express	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	2.02a2	1.11a5	8.2.0.22	Refer to "Switch pages" for supported FC switches.	EMPD	PCL 4.3A00	No	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	
		RedHat Enterprise Linux 5 (for Intel®64) [2.6.18-53.el5] RHEL5.1	Direct/ via switch	PCI-Express	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	2.02a2	1.10a5 1.11a5	8.1.10.9		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	

Note 1: For connection with ETERNUS DX, FC switch blade or FC Pass-Thru Blade is required.

Linux	OS (Kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMERGY	RHEL 4 (x86)	Red Hat Enterprise Linux AS/ES (v.4 for x86) [2.6.9-100.EL.] RHEL4.9	Direct/ via switch	PCI-Express	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	1.70a3 2.01a2 2.02a2	2.50a6 2.72a2 2.82a3	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD	PCL	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	When SAN boot is used, then please use HBA's Firmware/BIOS 2.82a3/2.02a2.
			Direct/ via switch	PCI-Express	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	5.12a2	2.00a4	OS bundled		EMPD (V2.0L21 or later)	PCL	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3306-L601 PG-FCD201 Note 1	1.70a3 3.03a2 3.03a9 3.03a11	2.70a5 2.70x6 2.72a2 2.82a3	OS bundled		EMPD	PCL	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	When SAN boot is used, then please use HBA's Firmware/BIOS 2.82a3/2.02a2.
			via switch	PCI-Express	MC-FC82E PG-FCD202/PY-FCD02 Note 1	3.11a5	2.00a4	OS bundled		EMPD (V2.0L21 or later)	PCL	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	When SAN boot is used, then please use Boot BIOS of HBA 3.03a2 or later.
						3.03a11 3.11a5	1.11a5	OS bundled		EMPD	PCL	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
		Red Hat Enterprise Linux AS/ES (v.4 for x86) [2.6.9-89.EL.] RHEL4.8	Direct/ via switch	PCI-bus	S26361-F3141-E1/ PG-FC201	1.70a3	1.91a1 1.91a5	OS bundled (8.0.16.46)	Refer to "Switch pages" for supported FC switches.	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
			Direct/ via switch	PCI-bus	S26361-F3141-L10/L210/ PG-FC107	2.02a2	1.92a1	OS bundled		EMPD (V2.0L21 or later)	PCL	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
			Direct/ via switch	PCI-Express	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	1.70a3 2.01a2 2.02a2	2.50a6 2.72a2 2.82a3	OS bundled (8.0.16.46)		EMPD	PCL 4.3A00	Yes (see instruction for use)	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	When SAN boot is used, please use Boot BIOS/Firmware 2.02a2/2.82a3.
			Direct/ via switch	PCI-Express	S26361-F3306-L601 PG-FCD201 Note 1	1.70a3 3.03a2 3.03a9 3.03a11	2.70a5 2.70x6 2.72a2 2.82a3	OS bundled (8.0.16.46)		EMPD	PCL 4.3A00	Yes (see instruction for use)	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	When using SAN boot, please change HBA's BootBIOS to 3.03a2 or later.
			Direct/ via switch	PCI-Express	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	2.02a2	1.10a5 1.11a5	OS bundled (8.0.16.46)		EMPD	PCL 4.3A00	Yes (see instruction for use)	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	When SAN boot is used, please use Boot BIOS/Firmware 2.02a2/1.11a5.
						5.12a2	2.00a4	OS bundled		EMPD (V2.0L21 or later)	PCL	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	MC-FC82E PG-FCD202/PY-FCD02 Note 1	3.03a11 3.11a5	1.11a5	OS bundled (8.0.16.46)		EMPD	PCL 4.3A00	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
						3.11a5	2.00a4	OS bundled		EMPD (V2.0L21 or later)	PCL	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
		Red Hat Enterprise Linux AS/ES (v.4 for x86) [2.6.9-78.0.1.EL.] RHEL4.7	Direct/ via switch	PCI-bus	S26361-F3141-L10/L210/ PG-FC107	1.70a3	1.91a1 1.91a5	OS bundled (8.0.16.40)	Refer to "Switch pages" for supported FC switches.	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
			Direct/ via switch	PCI-bus	S26361-F3141-E1/ PG-FC201	1.70a3	1.91a1 1.91a5	OS bundled (8.0.16.40)		EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
			Direct/ via switch	PCI-Express	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	1.70a3 2.01a2 2.02a2	2.50a6 2.72a2 2.82a3	OS bundled (8.0.16.40)		EMPD	PCL	Yes (see instruction for use)	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	When SAN boot is used, please use Boot BIOS/Firmware 2.02a2/2.82a3.
			Direct/ via switch	PCI-bus	S26361-F3023-L1/ PG-FCD101/PG-FCD102 Note 1	1.34 1.47	-	OS bundled (8.02.09-d0-rh4.7-4)		EMPD	PCL	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
			Direct/ via switch	PCI-bus	S26361-F3306-L601 PG-FCD201 Note 1	1.70a3 3.03a2 3.03a9 3.03a11	2.70a5 2.70x6 2.72a2 2.82a3	OS bundled (8.0.16.40)		EMPD	PCL	Yes (see instruction for use)	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	When using SAN boot, please change HBA's BootBIOS to 3.03a2 or later.
			Direct/ via switch	PCI-Express	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC203/PY-FC203L/ PY-FC201/PY-FC201L	2.02a2	1.10a5 1.11a5	OS bundled (8.0.16.40)		EMPD	PCL	Yes (see instruction for use)	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	When SAN boot is used, please use Boot BIOS/Firmware 2.02a2/1.11a5.
		RedHat Enterprise Linux AS/ES (v.4 for x86) [2.6.9-67.EL.] RHEL4.6	Direct/ via switch	PCI-Express	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	2.02a2	2.82a3	8.0.16.34	Refer to "Switch pages" for supported FC switches.	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3306-L601 PG-FCD201 Note 1	1.70a3 3.03a2 3.03a9 3.03a11	2.70a5 2.70x6 2.72a2 2.82a3	OS bundled		EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
		RedHat Enterprise Linux AS/ES (v.4 for x86) [2.6.9-55.EL.] RHEL4.5	Direct/ via switch	PCI-Express	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	2.02a2	2.82a3	8.0.16.27		EMPD	PCL 4.2A00	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	

Note 1: For connection with ETERNUS DX, FC switch blade or FC Pass-Thru Blade is required.

Linux	OS (Kernel)	Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use	
				model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA		
PRIMERGY	RHEL 4 (EM64T)	Red Hat Enterprise Linux AS/ES (v.4 for EM64T) [2.6.9-100.EL] RHEL4.9	Direct/ via switch	PCI-Express	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	1.70a3 2.01a2 2.02a2	2.50a6 2.72a2 2.82a3	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD	PCL	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	When SAN boot is used, then pleas use HBA's Firmware/BIOS 2.82a3/2.02a2.
			Direct/ via switch	PCI-Express	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	5.12a2	2.00a4	OS bundled		EMPD (V2.0L21 or later)	PCL	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3306-L601 PG-FCD201 Note 1	1.70a3 3.03a2 3.03a9 3.03a11	2.70a5 2.70x6 2.72a2 2.82a3	OS bundled		EMPD	PCL	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			via switch	PCI-Express	MC-FC82E PG-FCD202/PY-FCD02 Note 1	3.11a5 3.03a11 3.11a5	2.00a4	OS bundled		EMPD (V2.0L21 or later)	PCL	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
		Red Hat Enterprise Linux AS/ES (v.4 for EM64T) [2.6.9-89.EL] RHEL4.8	Direct/ via switch	PCI-bus	S26361-F3141-E1/ PG-FC201	1.70a3	1.91a1 1.91a5	OS bundled (8.0.16.46)	Refer to "Switch pages" for supported FC switches.	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	When SAN boot is used, please use Boot BIOS/Firmware 2.02a2/2.82a3.
			Direct/ via switch	PCI-bus	S26361-F3141-L10/L210/ PG-FC107	2.02a2	1.92a1	OS bundled		EMPD (V2.0L21 or later)	PCL	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
			Direct/ via switch	PCI-Express	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	1.70a3 2.01a2 2.02a2	2.50a6 2.72a2 2.82a3	OS bundled (8.0.16.46)		EMPD	PCL 4.3A00	Yes (see Instruction for use)	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3306-L601 PG-FCD201 Note 1	1.70a3 3.03a2 3.03a9 3.03a11	2.70a5 2.70x6 2.72a2 2.82a3	OS bundled (8.0.16.46)		EMPD	PCL 4.3A00	Yes (see Instruction for use)	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	When using SAN boot, please change HBA's BootBIOS to 3.03a2 or later.
			Direct/ via switch	PCI-Express	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	2.02a2	1.10a5 1.11a5	OS bundled (8.0.16.46)		EMPD (V2.0L21 or later)	PCL 4.3A00	Yes (see Instruction for use)	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	When SAN boot is used, please use Boot BIOS/Firmware 2.02a2/1.11a5.
			Direct/ via switch	PCI-Express	MC-FC82E PG-FCD202/PY-FCD02 Note 1	3.03a11 3.11a5 3.11a5	1.11a5	OS bundled (8.0.16.46)		EMPD (V2.0L21 or later)	PCL 4.3A00	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	PG-FCD202/PY-FCD02 Note 1	3.11a5	2.00a4	OS bundled		EMPD (V2.0L21 or later)	PCL	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Red Hat Enterprise Linux AS/ES (v.4 for EM64T) [2.6.9-78.0.1.EL] RHEL4.7	Direct/ via switch	PCI-bus	S26361-F3141-L10/L210/ PG-FC107	1.70a3	1.91a1 1.91a5		OS bundled (8.0.16.40)	Refer to "Switch pages" for supported FC switches.	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L11 or later)
		Direct/ via switch		PCI-bus	S26361-F3141-E1/ PG-FC201	1.70a3	1.91a1 1.91a5	OS bundled (8.0.16.40)	EMPD	PCL		No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		Direct/ via switch		PCI-Express	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	1.70a3 2.01a2 2.02a2	2.50a6 2.72a2 2.82a3	OS bundled (8.0.16.40)	EMPD	PCL		Yes (see Instruction for use)	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
		Direct/ via switch		PCI-bus	S26361-F3023-L1/ PG-FCD101/PG-FCD102 Note 1	1.34 1.47	-	OS bundled (8.02.09-d0-rh4.7-4)	EMPD	PCL		Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		Direct/ via switch		PCI-bus	S26361-F3306-L601 PG-FCD201 Note 1	1.70a3 3.03a2 3.03a9 3.03a11	2.70a5 2.70x6 2.72a2 2.82a3	OS bundled (8.0.16.40)	EMPD	PCL		Yes (see Instruction for use)	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	When using SAN boot, please change HBA's BootBIOS to 3.03a2 or later.
		Direct/ via switch		PCI-Express	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	2.02a2	1.10a5 1.11a5	OS bundled (8.0.16.40)	EMPD	PCL		Yes (see Instruction for use)	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	When SAN boot is used, please use Boot BIOS/Firmware 2.02a2/1.11a5.
		RedHat Enterprise Linux AS/ES (v.4 for EM64T) [2.6.9-67.EL] RHEL4.6	Direct/ via switch	PCI-Express	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	2.02a2	2.82a3	8.0.16.34	Refer to "Switch pages" for supported FC switches.	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3306-L601 PG-FCD201 Note 1	1.70a3 3.03a2 3.03a9 3.03a11	2.70a5 2.70x6 2.72a2 2.82a3	OS bundled		EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
RedHat Enterprise Linux AS/ES (v.4 for EM64T) [2.6.9-55.EL] RHEL4.5	Direct/ via switch	PCI-Express	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	2.02a2	2.82a3	8.0.16.27		EMPD	PCL 4.2A00	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)			

Note 1: For connection with ETERNUS DX, FC switch blade or FC Pass-Thru Blade is required.

LINUX	OS (kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMERGY	SUSE12 (x64)	SUSE Linux Enterprise Server 12 for AMD64/Intel 64 GA/SP1 (including xen/KVM)	Direct/ via switch	PCI-Express	PY-FC221/PY-FC221L PYBFC221/PYBFC221L PY-FC222/PY-FC222L PYBFC222/PYBFC222L S26361-F4994-L501/ S26361-F4994-E1/ S26361-F4994-L502/ S26361-F4994-E2	See note 2	See note 2	See note 2	Refer to "Switch pages" for supported FC switches.	EMPD	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			via switch	PCI-Express	PY-FC221/ PYBFC221/PYBFC221L S26361-F4994-E102/ S26361-F4994-L402 Note 1	See note 2	See note 2	See note 2		DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										EMPD	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PCI-Express	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	See note 2	See note 2	See note 2		DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										EMPD	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			via switch	PCI-Express	MC-FC82E PG-CD202/PY-FC202 S26361-F3874-L1 Note 1	See note 2	See note 2	See note 2		DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										EMPD	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PCI-Express	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201 S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202	See note 2	See note 2	See note 2		DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										EMPD	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PCI-Express	PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	See note 2	See note 2	See note 2		DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
										EMPD	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	See note 2	See note 2	See note 2		DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
EMPD	-	No							Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)					

Note 1: For connection with ETERNUS DX, FC switch blade or FC Pass-Thru Blade is required.

Note 2: Please use BIOS/Firmware/Driver which are supported by PRIMERGY.

LINUX	OS (Kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use	
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA		
PRIMERGY	SUSE11 (x86)	SUSE Linux Enterprise Server 11 (SP4) Xen	Direct/ via switch	PCI-Express	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201 S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202	See note 2	See note 2	See note 2	Refer to "Switch pages" for supported FC switches.	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	xen configuration is not supported	
										DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		
			Direct/ via switch	PCI-Express	PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	See note 2	See note 2	See note 2	Refer to "Switch pages" for supported FC switches.	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	xen configuration is not supported	
										DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		
			SUSE Linux Enterprise Server 11 (SP3) Xen	Direct/ via switch	PCI-Express	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201 S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202	See note 2	See note 2	See note 2	Refer to "Switch pages" for supported FC switches.	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	xen configuration is not supported
											DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
		Direct/ via switch		PCI-Express	PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	See note 2	See note 2	See note 2	Refer to "Switch pages" for supported FC switches.	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	xen configuration is not supported	
										DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		
		SUSE Linux Enterprise Server 11 (SP2) Xen	Direct/ via switch	PCI-Express	PG-FC202/PG-FC202L	2.12a6	2.82a4	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	xen configuration is not supported	
										DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please apply the following patches when using DeviceMapper. - kpartx-0.4.9-0.66.1.i586.rpm or later - multipath-tools-0.4.9-0.66.1.i586.rpm or later	
			Direct/ via switch	PCI-Express	PG-FC203/PG-FC203L/ PY-FC201/PY-FC201L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L	5.12a2	2.00a4	OS bundled		EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	xen configuration is not supported	
										DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please apply the following patches when using DeviceMapper. - kpartx-0.4.9-0.66.1.i586.rpm or later - multipath-tools-0.4.9-0.66.1.i586.rpm or later	
			Direct/ via switch	PCI-Express	PG-FCD201	3.03a11	2.82a4	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	xen configuration is not supported	
										DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please apply the following patches when using DeviceMapper. - kpartx-0.4.9-0.66.1.i586.rpm or later - multipath-tools-0.4.9-0.66.1.i586.rpm or later	
			Direct/ via switch	PCI-Express	PG-FCD202/PY-FCD02	3.11a5	2.00a4	OS bundled		EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	xen configuration is not supported	
										DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please apply the following patches when using DeviceMapper. - kpartx-0.4.9-0.66.1.i586.rpm or later - multipath-tools-0.4.9-0.66.1.i586.rpm or later	
			Direct/ via switch	PCI-Express	PG-FC205/PG-FC205L/ PY-FC211/PY-FC211L/ PG-FC206/PG-FC206L/ PY-FC212/PY-FC212L	2.16	-	OS bundled		EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	xen configuration is not supported	
										DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please apply the following patches when using DeviceMapper. - kpartx-0.4.9-0.66.1.x86_64.rpm or later - multipath-tools-0.4.9-0.66.1.x86_64.rpm or later	
		SUSE Linux Enterprise Server 11 (SP1) Xen	Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L	1.70a3 2.01a2 2.02a2	2.50a6 2.72a2 2.82a3	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Xen configuration is not supported.	
										DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)		
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2L.202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	2.02a2	1.10a5 1.11a5	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Xen configuration is not supported.	
										DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)		
			Direct/ via switch	PCI-Express	S26361-F3306-L601 PG-FCD201 Note 1	1.70a3 3.03a2 3.03a9 3.03a11	2.70x6 2.72a2 2.80a4 2.82a3	OS bundled		EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Xen configuration is not supported.	
										DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)		
			via switch	PCI-Express	MC-FC82E PG-FCD202/PY-FCD02 Note 1	3.03a11 3.11a5	1.11a5	OS bundled		EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Xen configuration is not supported.	
										DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)		
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16	-	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Xen configuration is not supported.	
										DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)		

Note 1: For connection with ETERNUS DX, FC switch blade or FC Pass-Thru Blade is required.

Note 2: Please use BIOS/Firmware/Driver which are supported by PRIMERGY.

LINUX	OS (Kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMERGY	SUSE11 (x64)	SUSE Linux Enterprise Server 11 (SP4) Xen	Direct/ via switch	PCI-Express	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201 S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202	See note 2	See note 2	See note 2	Refer to "Switch pages" for supported FC switches.	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	xen configuration is not supported
					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)						
			Direct/ via switch	PCI-Express	PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	See note 2	See note 2	See note 2	Refer to "Switch pages" for supported FC switches.	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	xen configuration is not supported
					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)						
		SUSE Linux Enterprise Server 11 (SP3) Xen	Direct/ via switch	PCI-Express	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201 S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202	See note 2	See note 2	See note 2	Refer to "Switch pages" for supported FC switches.	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	xen configuration is not supported
					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)						
			Direct/ via switch	PCI-Express	PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	See note 2	See note 2	See note 2	Refer to "Switch pages" for supported FC switches.	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	xen configuration is not supported
					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)						
		SUSE Linux Enterprise Server 11 (SP2) Xen	Direct/ via switch	PCI-Express	PG-FC202/PG-FC202L	2.12a6	2.82a4	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	xen configuration is not supported
					DeviceMapper	-	Yes	Supported (V20L10 or later)		Supported (V10L25 or later)	Supported (V10L40 or later)	Please apply the following patches when using DeviceMapper. - kpartx-0.4.9-0.66.1.x86_64.rpm or later - multipath-tools-0.4.9-0.66.1.x86_64.rpm or later				
			Direct/ via switch	PCI-Express	PG-FC203/PG-FC203L/ PY-FC201/PY-FC201L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L	5.12a2	2.00a4	OS bundled		EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	xen configuration is not supported
					DeviceMapper	-	Yes	Supported (V20L10 or later)		Supported (V10L25 or later)	Supported (V10L40 or later)	Please apply the following patches when using DeviceMapper. - kpartx-0.4.9-0.66.1.x86_64.rpm or later - multipath-tools-0.4.9-0.66.1.x86_64.rpm or later				
			Direct/ via switch	PCI-Express	PG-FCD201	3.03a11	2.82a4	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	xen configuration is not supported
					DeviceMapper	-	No	Supported (V20L10 or later)		Supported (V10L25 or later)	Supported (V10L40 or later)	Please apply the following patches when using DeviceMapper. - kpartx-0.4.9-0.66.1.x86_64.rpm or later - multipath-tools-0.4.9-0.66.1.x86_64.rpm or later				
			Direct/ via switch	PCI-Express	PG-FCD202/PY-FCD02	3.11a5	2.00a4	OS bundled		EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	xen configuration is not supported
					DeviceMapper	-	Yes	Supported (V20L10 or later)		Supported (V10L25 or later)	Supported (V10L40 or later)	Please apply the following patches when using DeviceMapper. - kpartx-0.4.9-0.66.1.x86_64.rpm or later - multipath-tools-0.4.9-0.66.1.x86_64.rpm or later				
			Direct/ via switch	PCI-Express	PG-FC205/PG-FC205L/ PY-FC211/PY-FC211L/ PG-FC206/PG-FC206L/ PY-FC212/PY-FC212L	2.16	-	OS bundled		EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	xen configuration is not supported
					DeviceMapper	-	Yes	Supported (V20L10 or later)		Supported (V10L25 or later)	Supported (V10L40 or later)	Please apply the following patches when using DeviceMapper. - kpartx-0.4.9-0.66.1.x86_64.rpm or later - multipath-tools-0.4.9-0.66.1.x86_64.rpm or later				
		SUSE Linux Enterprise Server 11 (SP1) Xen	Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L	1.70a3 2.01a2 2.02a2	2.50a6 2.72a2 2.82a3	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Xen configuration is not supported.
					DeviceMapper	-	No	Supported (V20L10 or later)		Supported (V10L11 or later)	Supported (V10L40 or later)					
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2L.202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	2.02a2	1.10a5 1.11a5	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Xen configuration is not supported.
					DeviceMapper	-	No	Supported (V20L10 or later)		Supported (V10L11 or later)	Supported (V10L40 or later)					
			Direct/ via switch	PCI-Express	S26361-F3306-L601 PG-FCD201 Note 1	1.70a3 3.03a2 3.03a9 3.03a11	2.70x6 2.72a2 2.80a4 2.82a3	OS bundled		EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Xen configuration is not supported.
					DeviceMapper	-	Yes	Supported (V20L10 or later)		Supported (V10L11 or later)	Supported (V10L40 or later)					
			via switch	PCI-Express	MC-FC82E PG-FCD202/PY-FCD02 Note 1	3.03a11 3.11a5	1.11a5	OS bundled		EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Xen configuration is not supported.
					DeviceMapper	-	Yes	Supported (V20L10 or later)		Supported (V10L11 or later)	Supported (V10L40 or later)					
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16	-	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Xen configuration is not supported.
					DeviceMapper	-	No	Supported (V20L10 or later)		Supported (V10L11 or later)	Supported (V10L40 or later)					

Note 1: For connection with ETERNUS DX, FC switch blade or FC Pass-Thru Blade is required.

Note 2: Please use BIOS/Firmware/Driver which are supported by PRIMERGY.

LINUX	OS (Kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMERGY	SUSE10 (x86)	SUSE Linux Enterprise Server 10 (SP 4)	Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L	2.12a6	2.82a4	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
										DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2L.202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	2.02a2	1.11a5	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
										DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3306-L601 PG-FCD201 Note 1	3.03a11	2.82a4	OS bundled		EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
										DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
			via switch	PCI-Express	MC-FC82E PG-FCD202/PY-FCD02 Note 1	2.02a2	1.11a5	OS bundled		EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
										DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16	-	8.02.03		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
										DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
		SUSE Linux Enterprise Server 10 (SP3) Xen	Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L	1.70a3 2.01a2 2.02a2	2.50a6 2.72a2 2.82a3	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Xen configuration is not supported.
										DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2L.202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	2.02a2	1.10a5 1.11a5	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Xen configuration is not supported.
										DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3306-L601 PG-FCD201 Note 1	1.70a3 3.03a2 3.03a9 3.03a11	2.70x6 2.72a2 2.80a4 2.82a3	OS bundled		EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Xen configuration is not supported.
										DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			via switch	PCI-Express	MC-FC82E PG-FCD202/PY-FCD02 Note 1	3.03a11 3.11a5	1.11a5	OS bundled		EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Xen configuration is not supported.
										DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16	-	8.02.03		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)	Xen configuration is not supported.
										DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	Supported (V10L40 or later)	
		SUSE Linux Enterprise Server 10 (SP2)	Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L				Refer to "Switch pages" for supported FC switches.	EMPD	-		Planned 2	Planned 2	Planned 2	
			Direct/ via switch	PCI-bus	S26361-F3023-L1/ PG-FCD101/PG-FCD102 Note 1					EMPD	-		Planned 2	Planned 2	N.A.	
			Direct/ via switch	PCI-bus	S26361-F3306-L601 PG-FCD201 Note 1					EMPD	-		Planned 2	Planned 2	Planned 2	
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2L.202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L					EMPD	-		Planned 2	Planned 2	Planned 2	

Note 1: For connection with ETERNUS DX, FC switch blade or FC Pass-Thru Blade is required.

LINUX	OS (Kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMERGY	SUSE10 (EM64T)	SUSE Linux Enterprise Server 10 (SP 4)	Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L	2.12a6	2.82a4	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
										DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2A.202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	2.02a2	1.11a5	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
										DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3306-L601 PG-FC201 Note 1	3.03a11	2.82a4	OS bundled		EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
										DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
			via switch	PCI-Express	MC-FC82E PG-FC202/PY-FC202 Note 1	2.02a2	1.11a5	OS bundled		EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
										DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16	-	8.02.03		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
										DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
		SUSE Linux Enterprise Server 10 (SP3) Xen	Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L	1.70a3 2.01a2 2.02a2	2.50a6 2.72a2 2.82a3	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
										DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
										VxVM 5.0	VCS 5.0	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
										EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2A.202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	2.02a2	1.10a5 1.11a5	OS bundled		DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
										VxVM 5.0	VCS 5.0	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3306-L601 PG-FC201 Note 1	1.70a3 3.03a2 3.03a9 3.03a11	2.70x6 2.72a2 2.80a4 2.82a3	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
										DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	MC-FC82E PG-FC202/PY-FC202 Note 1	3.03a11 3.11a5	1.11a5	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
										DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16	-	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
										DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
		SUSE Linux Enterprise Server 10 (SP2)	Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L				Refer to "Switch pages" for supported FC switches.	EMPD	-		Planned 2	Planned 2	Planned 2	
			Direct/ via switch	PCI-bus	S26361-F3023-L1/ PG-FC201/PG-FC201L					EMPD	-		Planned 2	Planned 2	N.A.	
			Direct/ via switch	PCI-bus	S26361-F3306-L601 PG-FC201 Note 1					EMPD	-		Planned 2	Planned 2	Planned 2	
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2A.202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L					EMPD	-		Planned 2	Planned 2	Planned 2	
	SUSE9 (x86)	SUSE Linux Enterprise Server 9 (SP4)	Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L				Refer to "Switch pages" for supported FC switches.	EMPD	-		Planned 2	Planned 2	Planned 2	
			Direct/ via switch	PCI-bus	S26361-F3023-L1/ PG-FC201/PG-FC201L					EMPD	-		Planned 2	Planned 2	N.A.	
			Direct/ via switch	PCI-bus	S26361-F3306-L601 PG-FC201 Note 1					EMPD	-		Planned 2	Planned 2	Planned 2	
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2A.202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L					EMPD	-		Planned 2	Planned 2	Planned 2	
	SUSE9 (EM64T)	SUSE Linux Enterprise Server 9 (SP4)	Direct/ via switch	PCI-Express	S26361-F3306-L1A.201/ PG-FC202/PG-FC202L				Refer to "Switch pages" for supported FC switches.	EMPD	-		Planned 2	Planned 2	Planned 2	
			Direct/ via switch	PCI-bus	S26361-F3023-L1/ PG-FC201/PG-FC201L					EMPD	-		Planned 2	Planned 2	N.A.	
			Direct/ via switch	PCI-bus	S26361-F3306-E601A.601 PG-FC201 Note 1					EMPD	-		Planned 2	Planned 2	Planned 2	
			Direct/ via switch	PCI-Express	S26361-F3961-L1A.201/ S26361-F3961-L2A.202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L					EMPD	-		Planned 2	Planned 2	Planned 2	

Note 1: For connection with ETERNUS DX, FC switch blade or FC Pass-Thru Blade is required.

LINUX	OS (Kernel) Note 2		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use					
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA						
Other Companies' Servers	RHEL 7 (Intel64)	Red Hat Enterprise Linux 7 [3.10.0-514] (for Intel64) RHEL 7.3 &KVM	Direct/ via switch	PCI-Express	LPe32000/ LPe32002	Note 3	Note 3	Note 3	Refer to "Switch pages" for supported FC switches.	DeviceMapper	Oracle RAC12c R1	Yes Note 5	Planned 2	Supported (V10L60 or later)	Supported (V10L60 or later)						
			Direct/ via switch	PCI-Express	LPe31000/ LPe31002	Note 3	Note 3	Note 3		DeviceMapper	Oracle RAC12c R1	Yes Note 5	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)						
			Direct/ via switch	PCI-Express	QLE2740/ QLE2742/ QLE2764	Note 3	Note 3	Note 3		DeviceMapper	Oracle RAC12c R1	Yes	Planned 2	Supported (V10L60 or later)	Supported (V10L60 or later)						
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/LPe1250	Note 3	Note 3 Note 4	Note 3		EMPD (V2.0L27 or later)	Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)						
					HP: AJ762AA/J763A IBM: 42D0485/42D0494					DeviceMapper	Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)						
			Direct/ via switch	PCI-Express	LPe16000B/LPe16002B/ LPe16000/LPe16002	Note 3	Note 3 Note 4	Note 3		VxVM	InfoScale Availability 7.0/7.1	No	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)						
					HP: Ak344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510					EMPD (V2.0L27 or later)	Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)						
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: Ak344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Note 3	Note 3	Note 3		DeviceMapper	Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)						
					VxVM					InfoScale Availability 7.0/7.1	No	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)							
			Direct/ via switch	PCI-Express	QLE2690/ QLE2692/ QLE2694	Note 3	Note 3	Note 3		EMPD (V2.0L27 or later)	Oracle RAC12c R1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)						
					DeviceMapper					Oracle RAC12c R1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)							
			Direct/ via switch	PCI-Express	QLE2670/QLE2672 QLE2660/QLE2662	Note 3	Note 3	Note 3		VxVM	InfoScale Availability 7.0/7.1	No	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)						
					EMPD (V2.0L27 or later)					Oracle RAC12c R1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)							
			Direct/ via switch	PCI-Express	QLE2670/QLE2672 QLE2660/QLE2662	Note 3	Note 3	Note 3		DeviceMapper	Oracle RAC12c R1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)						
					VxVM					InfoScale Availability 7.0/7.1	No	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)							
			Red Hat Enterprise Linux 7 [3.10.0-327] (for Intel64) RHEL 7.2 &KVM [3.10.0-229] (for Intel64) RHEL 7.1 &KVM			Direct/ via switch	PCI-Express	LPe12000/LPe12002/LPe1250 HP: AJ762AA/J763A IBM: 42D0485/42D0494		Note 3	Note 3 Note 4	Note 3	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L27 or later)	Oracle RAC12c R1		Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
														DeviceMapper	Oracle RAC12c R1		Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
						Direct/ via switch	PCI-Express	LPe16000B/LPe16002B/ LPe16000/LPe16002		Note 3	Note 3 Note 4	Note 3		VxVM	InfoScale Availability 7.0/7.1		No	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
	EMPD (V2.0L27 or later)	Oracle RAC12c R1							Yes					Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)					
	Direct/ via switch	PCI-Express				QLE2560/QLE2562 HP: Ak344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Note 3	Note 3	Note 3		DeviceMapper	Oracle RAC12c R1		Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)				
											VxVM	InfoScale Availability 7.0/7.1		No	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)				
	Direct/ via switch	PCI-Express				QLE2690/ QLE2692/ QLE2694	Note 3	Note 3	Note 3		EMPD (V2.0L27 or later)	Oracle RAC12c R1		Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)				
											DeviceMapper	Oracle RAC12c R1		Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)				
Direct/ via switch	PCI-Express	QLE2670/QLE2672 QLE2660/QLE2662				Note 3	Note 3	Note 3		VxVM	InfoScale Availability 7.0/7.1	No		Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)					
										EMPD (V2.0L27 or later)	Oracle RAC12c R1	Yes		Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)					
Direct/ via switch	PCI-Express	QLE2670/QLE2672 QLE2660/QLE2662				Note 3	Note 3	Note 3		DeviceMapper	Oracle RAC12c R1	Yes		Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)					
										VxVM	InfoScale Availability 7.0/7.1	No		Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)					
Direct/ via switch	PCI-Express	QLE2670/QLE2672 QLE2660/QLE2662				Note 3	Note 3	Note 3		EMPD (V2.0L27 or later)	Oracle RAC12c R1	Yes		Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)					
										DeviceMapper	Oracle RAC12c R1	Yes		Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)					
Direct/ via switch	PCI-Express	QLE2670/QLE2672 QLE2660/QLE2662				Note 3	Note 3	Note 3		VxVM	InfoScale Availability 7.0/7.1	No		Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)					
			EMPD (V2.0L27 or later)	Oracle RAC12c R1	Yes					Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)									
Direct/ via switch	PCI-Express	QLE2670/QLE2672 QLE2660/QLE2662	Note 3	Note 3	Note 3		DeviceMapper	Oracle RAC12c R1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)									
							VxVM	InfoScale Availability 7.0/7.1	No	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)									

Note 2: Please check if the listed Linux kernel version is supported on the customer's Servers.
 Note 3: Please use BIOS/Firmware/Driver which are supported by HBA vendor and server vendor.
 Note 4: When upgrading HBA firmware, please follow the procedure: 1. Disconnect FC cable, 2. Upgrade HBA firmware, 3. Power off server, 4. Reconnect FC cable, 5. Power on server
 Note 5: SAN boot on direct connection is not supported.

LINUX	OS (Kernel) Note 2		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use	
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA		
Other Companies' Servers	RHEL 7 (Intel64)	Red Hat Enterprise Linux 7 [3.10.0-123] (for Intel64) RHEL 7.0 &KVM	Direct/ via switch	PCI-Express	LPe12000/LPe12002/LPe1250	Note 3	Note 3 Note 4	Note 3	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L26 or later)	Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L55 or later)	Supported (V10L55 or later)		
					HP: AJ762AA/AJ763A					DeviceMapper	Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L55 or later)	Supported (V10L55 or later)		
					IBM: 42D0485/42D0494					VxVM	InfoScale Availability 7.0/7.1	No	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		ETERNUS's Thin Provisioning function is not supported.
			Direct/ via switch (see instruction for use)	PCI-Express	LPe16000B/LPe16002B/ LPe16000/LPe16002	Note 3	Note 3 Note 4	Note 3		EMPD (V2.0L26 or later)	Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L55 or later)	Supported (V10L55 or later)	- When using EMPD and connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.	
										DeviceMapper	Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L55 or later)	Supported (V10L55 or later)		
										VxVM	InfoScale Availability 7.0/7.1	No	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		- When using EMPD and connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower. ETERNUS's Thin Provisioning function is not supported.
			Direct/ via switch	PCI-Express	QLE2560/QLE2562	Note 3	Note 3	Note 3		EMPD (V2.0L26 or later)	Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L55 or later)	Supported (V10L55 or later)		
					HP: AK344AA/AJ764A QMH2562/QMH2572					DeviceMapper	Oracle RAC12c R1	Yes	Supported (V20L14 or later)	Supported (V10L55 or later)	Supported (V10L55 or later)		
					IBM: 42D0501/42D0510					VxVM	InfoScale Availability 7.0/7.1	No	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		ETERNUS's Thin Provisioning function is not supported.
			Direct/ via switch	PCI-Express	QLE2690/ QLE2692/ QLE2694	Note 3	Note 3	Note 3		EMPD (V2.0L26 or later)	Oracle RAC12c R1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		
										DeviceMapper	Oracle RAC12c R1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		
										VxVM	InfoScale Availability 7.0/7.1	No	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		ETERNUS's Thin Provisioning function is not supported.
			Direct/ via switch	PCI-Express	QLE2670/QLE2672 QLE2660/QLE2662	Note 3	Note 3	Note 3		EMPD (V2.0L26 or later)	Oracle RAC12c R1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		
										DeviceMapper	Oracle RAC12c R1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		
										VxVM	InfoScale Availability 7.0/7.1	No	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		ETERNUS's Thin Provisioning function is not supported.
			Direct/ via switch	PCI-Express	Brocade 1860					EMPD (V2.0L26 or later)	Oracle RAC12c R1	Yes	Planned 2	Planned 2	Planned 2		
										DeviceMapper	Oracle RAC12c R1	Yes	Planned 2	Planned 2	Planned 2		

Note 2: Please check if the listed Linux kernel version is supported on the customer's Servers.
Note 3: Please use BIOS/Firmware/Driver which are supported by HBA vendor and server vendor.
Note 4: When upgrading HBA firmware, please follow the procedure: 1. Disconnect FC cable, 2. Upgrade HBA firmware, 3. Power off server, 4. Reconnect FC cable, 5. Power on server

Linux	OS (Kernel) Note 2	Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use	
				model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA		
Other Companies' Servers	RHEL 6 (x86)	Red Hat Enterprise Linux 6 [2.6.32-642.el6] (for x86) RHEL6.8	Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: Ak344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	See instruction for use	Instruction for use	See instruction for use	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L27 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.
										DeviceMapper	Yes	Planned 2	Planned 2	Planned 2	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.	
			Direct/ via switch	PCI-Express	QLE2670/QLE2672 QLE2660/QLE2662	See instruction for use	Instruction for use	See instruction for use		EMPD (V2.0L27 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.
										DeviceMapper	Yes	Planned 2	Planned 2	Planned 2	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.	
		Red Hat Enterprise Linux 6 (for x86) RHEL6.7	Direct/ via switch	PCI-Express	LP11000/LP11002/ LP1150L/LPe11000/ LPe11002/LPe1150	See instruction for use	See instruction for use Note 4	See instruction for use	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L27 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.
										DeviceMapper	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.	
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	See instruction for use	See instruction for use Note 4	See instruction for use		EMPD (V2.0L27 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.
										DeviceMapper	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.	
			Direct/ via switch (see instruction for use)	PCI-Express	LPe16000B/LPe16002B/ LPe16000/LPe16002	See instruction for use	See instruction for use Note 4	See instruction for use		EMPD (V2.0L27 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- When using EMPD and connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower. Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.
										DeviceMapper	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: Ak344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	See instruction for use	Instruction for use	See instruction for use		EMPD (V2.0L27 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
										DeviceMapper	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.	
			Direct/ via switch	PCI-Express	QLE2690/ QLE2692/ QLE2694	See instruction for use	Instruction for use	See instruction for use		EMPD (V2.0L27 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.
										DeviceMapper	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.	
			Direct/ via switch	PCI-Express	QLE2670/QLE2672 QLE2660/QLE2662	See instruction for use	Instruction for use	See instruction for use		EMPD (V2.0L27 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
										DeviceMapper	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.	
			Direct/ via switch	PCI-Express	Brocade 1860	See instruction for use	Instruction for use	See instruction for use		EMPD (V2.0L27 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1		Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
										DeviceMapper	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		
		Red Hat Enterprise Linux 6 (for x86) RHEL6.6	Direct/ via switch	PCI-Express	LP11000/LP11002/ LP1150L/LPe11000/ LPe11002/LPe1150	See instruction for use	See instruction for use Note 4	See instruction for use	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L22 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
										DeviceMapper	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.	
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	See instruction for use	See instruction for use Note 4	See instruction for use		EMPD (V2.0L22 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
										DeviceMapper	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.	
			Direct/ via switch (see instruction for use)	PCI-Express	LPe16000B/LPe16002B/ LPe16000/LPe16002	See instruction for use	See instruction for use Note 4	See instruction for use		EMPD (V2.0L22 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	- When using EMPD and connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower. Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
										DeviceMapper	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)		
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: Ak344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	See instruction for use	Instruction for use	See instruction for use		EMPD (V2.0L22 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
										DeviceMapper	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.	
			Direct/ via switch	PCI-Express	QLE2690/ QLE2692/ QLE2694	See instruction for use	Instruction for use	See instruction for use		EMPD (V2.0L22 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
										DeviceMapper	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.	
			Direct/ via switch	PCI-Express	QLE2670/QLE2672 QLE2660/QLE2662	See instruction for use	Instruction for use	See instruction for use		EMPD (V2.0L22 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
										DeviceMapper	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.	
			Direct/ via switch	PCI-Express	Brocade 1860	3.1.0.1	3.1.0.1	3.1.0.1		EMPD (V2.0L22 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1		Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
										DeviceMapper	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)		

Note 4: When upgrading HBA firmware, please follow the procedure: 1. Disconnect FC cable, 2. Upgrade HBA firmware, 3. Power off server, 4. Reconnect FC cable, 5. Power on server

LINUX	OS (Kernel) Note 2	Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use	
				model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA		
Other Companies' Servers	RHEL 6 (x86)	Red Hat Enterprise Linux 6 (for x86) RHEL6.5	Direct/ via switch	PCI-Express	LP11000/LP11002/ LP11500/LPe11000/ LPe11002/LPe1150	See instruction for use	See instruction for use Note 4	See instruction for use	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L22 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	See instruction for use	See instruction for use Note 4	See instruction for use		EMPD (V2.0L22 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.
			Direct/ via switch (see instruction for use)	PCI-Express	LPe16000B/LPe16002B/ LPe16000/LPe16002	See instruction for use	See instruction for use Note 4	See instruction for use		EMPD (V2.0L22 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	- When using EMPD and connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower. Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	See instruction for use	Instruction for use	See instruction for use		EMPD (V2.0L22 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.
			Direct/ via switch	PCI-Express	QLE2690/ QLE2692/ QLE2694	See instruction for use	Instruction for use	See instruction for use		EMPD (V2.0L22 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
										DeviceMapper		Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.
			Direct/ via switch	PCI-Express	QLE2670/QLE2672 QLE2660/QLE2662	See instruction for use	Instruction for use	See instruction for use		EMPD (V2.0L22 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
										DeviceMapper		Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.
			Direct/ via switch	PCI-Express	Brocade 1860	3.1.0.1	3.1.0.1	3.1.0.1		EMPD (V2.0L22 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1		Supported (V20L14 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	
		Red Hat Enterprise Linux 6 (for x86) RHEL6.4	Direct/ via switch	PCI-Express	LP11000/LP11002/ LP11500/LPe11000/ LPe11002/LPe1150	2.12a6	2.82a4	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L22 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L47 or later)	Supported (V10L47 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L47 or later)	Supported (V10L47 or later)	
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	5.12a2	2.00a4	OS bundled		EMPD (V2.0L22 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L47 or later)	Supported (V10L47 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L47 or later)	Supported (V10L47 or later)	
			Direct/ via switch (see instruction for use)	PCI-Express	LPe16000B/LPe16002B/ LPe16000/LPe16002	-	1.1.43.3 or later Note 4	OS bundled		EMPD (V2.0L22 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	- When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	3.00 or later	-	OS bundled		EMPD (V2.0L22 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L47 or later)	Supported (V10L47 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L47 or later)	Supported (V10L47 or later)	
			Direct/ via switch	PCI-Express	QLE2690/ QLE2692/ QLE2694	See instruction for use	Instruction for use	See instruction for use		EMPD (V2.0L22 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.
										DeviceMapper		Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PCI-Express	QLE2670/QLE2672 QLE2660/QLE2662	See instruction for use	Instruction for use	See instruction for use		EMPD (V2.0L22 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.
										DeviceMapper		Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PCI-Express	Brocade 1860	3.1.0.1	3.1.0.1	3.1.0.1		EMPD (V2.0L22 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1		Supported (V20L14 or later)	Supported (V10L47 or later)	Supported (V10L47 or later)	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L47 or later)	Supported (V10L47 or later)	
		Red Hat Enterprise Linux 6 (for x86) RHEL6.3	Direct/ via switch	PCI-Express	LP11000/LP11002/ LP11500/LPe11000/ LPe11002/LPe1150	2.12a6	2.82a4	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L22 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
										DeviceMapper		Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	5.12a2	2.00a4	OS bundled		EMPD	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
										DeviceMapper		Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	
			Direct/ via switch (see instruction for use)	PCI-Express	LPe16000B/LPe16002B/ LPe16000/LPe16002	-	1.1.43.3 or later Note 4	OS bundled		EMPD (V2.0L24 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	-When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later. - When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	- When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	3.00 or later	-	OS bundled		EMPD	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
										DeviceMapper		Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	
				Direct/ via switch	PCI-Express	Brocade 1860	3.1.0.1	3.1.0.1	3.1.0.1	DeviceMapper	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	-When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.

Note 4: When upgrading HBA firmware, please follow the procedure: 1. Disconnect FC cable; 2. Upgrade HBA firmware; 3. Power off server; 4. Reconnect FC cable; 5. Power on server

LINUX	OS (Kernel) Note 2	Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use	
				model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2 DX90 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA		
Other Companies' Servers	RHEL 6 (x86)	Direct/ via switch	PCI-Express	LP11000/LP11002/ LP1150/LPe11000/ LPe11002/LPe1150	2.12a6	2.82a4	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD	LifeKeeper 8.x	Yes	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	Please apply errata (RHSA-2012-0052) provided by RHEL. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.	
				DeviceMapper	LifeKeeper 8.x	Yes	Supported (V20L10 or later)		Supported (V10L31 or later)	Supported (V10L40 or later)						
		Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	5.12a2	2.00a4	OS bundled		EMPD	LifeKeeper 8.x	Yes	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	Please apply errata (RHSA-2012-0052) provided by RHEL. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.	
				DeviceMapper	LifeKeeper 8.x	Yes	Supported (V20L10 or later)		Supported (V10L31 or later)	Supported (V10L40 or later)						
		Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: Ak344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	3.00 or later	-	OS bundled		EMPD	LifeKeeper 8.x	Yes	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	Please apply errata (RHSA-2012-0052) provided by RHEL. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.	
				DeviceMapper	LifeKeeper 8.x	Yes	Supported (V20L10 or later)		Supported (V10L31 or later)	Supported (V10L40 or later)						
		Direct/ via switch	PCI-Express	LP11000/LP11002/ LP1150/LPe11000/ LPe11002/LPe1150	2.12a6	2.82a4	OS bundled		EMPD (V2.0L22 or later)	-	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)		
									DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)		
				Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	5.12a2	2.00a4	OS bundled	EMPD (V2.0L22 or later)	CLUSTERPRO X 3.1	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)		Supported (V10L40 or later)
										DeviceMapper	CLUSTERPRO X 3.1	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)		Supported (V10L40 or later)
		Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: Ak344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.16	-	OS bundled	EMPD (V2.0L22 or later)	CLUSTERPRO X 3.1	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)			
								DeviceMapper	CLUSTERPRO X 3.1	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)			
		Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/ LP1150/LPe11000/ LPe11002/LPe1150	2.12a6	2.82a4	8.3.5.35	EMPD	-	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)			
								DeviceMapper	-	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)			
				Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	5.12a2	2.00a4	OS bundled	EMPD (V2.0L21 or later)	-	Yes	Supported (V20L10 or later)	N.A.		N.A.
										DeviceMapper	-	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)		Supported (V10L40 or later)
Direct/ via switch	PCI-bus/ PCI-Express		QLE2460/QLE2462/ QLE2460/QLE2462/ QLE2464	Multiboot 1.94	-	OS bundled	EMPD	-	No	Supported (V2.0L21 or later)	N.A.	N.A.				
							DeviceMapper	-	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)				
			Direct/ via switch	PCI-bus/ PCI-Express	3.0	-	8.03.04.12.06.0-40	EMPD	-	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)			
								DeviceMapper	-	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)			
Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: Ak344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	3.0	-	8.03.04.12.06.0-40	EMPD	-	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)					
						DeviceMapper	-	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)					
		via switch	PCI-Express	Brocade 815/825	2.3.0.3	2.3.0.3	2.3.0.3	EMPD	-	No	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)			
								DeviceMapper	-	No	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)			

Note 4: When upgrading HBA firmware, please follow the procedure: 1. Disconnect FC cable, 2. Upgrade HBA firmware, 3. Power off server, 4. Reconnect FC cable, 5. Power on server

LINUX	OS (Kernel) Note 2		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use	
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA		
Other Companies' Servers	RHEL 6 (Intel®64)	Red Hat Enterprise Linux 6 (2.6.32-442.el6) (for Intel®64) RHEL6.8 & KVM	Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: A8344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	See instruction for use	See instruction for use	See instruction for use	Refer to “Switch pages” for supported FC switches.	EMPD (V2.0L27 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.	
			Direct/ via switch	PCI-Express						DeviceMapper		Yes	Planned 2	Planned 2	Planned 2		
										VxVM 6.0.3 or later	VCS 6.0.3 or later InfoScale Availability 7.0/7.1	No	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. ETERNUS's Thin Provisioning function is not supported.	
										EMPD (V2.0L27 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.	
		Red Hat Enterprise Linux 6 (for Intel®64) RHEL6.7 & KVM	Direct/ via switch	PCI-Express						DeviceMapper		Yes	Planned 2	Planned 2	Planned 2		
										VxVM 6.0.3 or later	VCS 6.0.3 or later InfoScale Availability 7.0/7.1	No	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		
			Direct/ via switch	PCI-Express						EMPD (V2.0L27 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		
			Direct/ via switch (see instruction for use)	PCI-Express						VxVM 6.0.3 or later	VCS 6.0.3 or later InfoScale Availability 7.0/7.1	No	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. ETERNUS's Thin Provisioning function is not supported.	
										EMPD (V2.0L27 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. When using EMPD and connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		
			Direct/ via switch	PCI-Express						VxVM 6.0.3 or later	VCS 6.0.3 or later InfoScale Availability 7.0/7.1	No	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. ETERNUS's Thin Provisioning function is not supported.	
										EMPD (V2.0L27 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		
			Direct/ via switch	PCI-Express						VxVM 6.0.3 or later	VCS 6.0.3 or later InfoScale Availability 7.0/7.1	No	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. ETERNUS's Thin Provisioning function is not supported.	
										EMPD (V2.0L27 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.	
										DeviceMapper		Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		
			Direct/ via switch	PCI-Express						VxVM 6.0.3 or later	VCS 6.0.3 or later InfoScale Availability 7.0/7.1	No	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. ETERNUS's Thin Provisioning function is not supported.	
										EMPD (V2.0L27 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor.	
										DeviceMapper		Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		
			Direct/ via switch	PCI-Express						VxVM 6.0.3 or later	VCS 6.0.3 or later InfoScale Availability 7.0/7.1	No	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. ETERNUS's Thin Provisioning function is not supported.	
										EMPD (V2.0L27 or later)	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.	
										DeviceMapper		Yes	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)		
			Direct/ via switch	PCI-Express	Brocade 1860	See instruction for use	See instruction for use	See instruction for use	Refer to “Switch pages” for supported FC switches.	VxVM 6.0.3 or later	VCS 6.0.3 or later InfoScale Availability 7.0/7.1	No	Supported (V20L14 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	ETERNUS's Thin Provisioning function is not supported.	

Note 4: When upgrading HBA firmware, please follow the procedure: 1. Disconnect FC cable, 2. Upgrade HBA firmware, 3. Power off server, 4. Reconnect FC cable, 5. Power on server

LINUX		OS (Kernet) Note 2	Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
Other Companies' Servers	RHEL 6 (Intel64)	Red Hat Enterprise Linux 6 (for Intel64) RHEL6.6 & KVM	Direct/ via switch	PCI-Express	LP11000/LP11002/ LP1150/LPe11000/ LPe11002/LPe1150	See Instruction for use	See Instruction for use Note 4	See Instruction for use	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L22 or later) DeviceMapper	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.
			Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. ETERNUS's Thin Provisioning function is not supported.									
			VxVM 6.0.3 or later	VCS 6.0.3 or later InfoScale Availability 7.0/7.1	No	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)		Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. ETERNUS's Thin Provisioning function is not supported.						
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	See Instruction for use	See Instruction for use Note 4	See Instruction for use		EMPD (V2.0L22 or later) DeviceMapper	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. ETERNUS's Thin Provisioning function is not supported.
			Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. ETERNUS's Thin Provisioning function is not supported.									
			VxVM 6.0.3 or later	VCS 6.0.3 or later InfoScale Availability 7.0/7.1	No	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)		Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. ETERNUS's Thin Provisioning function is not supported.						
			Direct/ via switch (see Instruction for use)	PCI-Express	LPe16000B/LPe16002B/ LPe16000/LPe16002	See Instruction for use	See Instruction for use Note 4	See Instruction for use		EMPD (V2.0L22 or later) DeviceMapper	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. ETERNUS's Thin Provisioning function is not supported.
			Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. ETERNUS's Thin Provisioning function is not supported.									
			VxVM 6.0.3 or later	VCS 6.0.3 or later InfoScale Availability 7.0/7.1	No	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)		Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. ETERNUS's Thin Provisioning function is not supported.						
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	See Instruction for use	See Instruction for use	See Instruction for use		EMPD (V2.0L22 or later) DeviceMapper	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. ETERNUS's Thin Provisioning function is not supported.
			Yes	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)	When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.									
			VxVM 6.0.3 or later	VCS 6.0.3 or later InfoScale Availability 7.0/7.1	No	Supported (V20L14 or later)	Supported (V10L56 or later)	Supported (V10L56 or later)		ETERNUS's Thin Provisioning function is not supported.						
		Red Hat Enterprise Linux 6 (for Intel64) RHEL6.5 & KVM	Direct/ via switch	PCI-Express	LP11000/LP11002/ LP1150/LPe11000/ LPe11002/LPe1150	See Instruction for use	See Instruction for use Note 4	See Instruction for use	EMPD (V2.0L22 or later) DeviceMapper	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.	
			Yes	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. ETERNUS's Thin Provisioning function is not supported.									
			VxVM 6.0.3 or later	VCS 6.0.3 or later InfoScale Availability 7.0/7.1	No	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. ETERNUS's Thin Provisioning function is not supported.							
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	See Instruction for use	See Instruction for use Note 4	See Instruction for use	EMPD (V2.0L22 or later) DeviceMapper	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.	
			Yes	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. ETERNUS's Thin Provisioning function is not supported.									
			VxVM 6.0.3 or later	VCS 6.0.3 or later InfoScale Availability 7.0/7.1	No	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. ETERNUS's Thin Provisioning function is not supported.							
			Direct/ via switch (see Instruction for use)	PCI-Express	LPe16000B/LPe16002B/ LPe16000/LPe16002	See Instruction for use	See Instruction for use Note 4	See Instruction for use	EMPD (V2.0L22 or later) DeviceMapper	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.	
			Yes	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. ETERNUS's Thin Provisioning function is not supported.									
			VxVM 6.0.3 or later	VCS 6.0.3 or later InfoScale Availability 7.0/7.1	No	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. ETERNUS's Thin Provisioning function is not supported.							
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	See Instruction for use	See Instruction for use	See Instruction for use	EMPD (V2.0L22 or later) DeviceMapper	LifeKeeper 8.x Oracle RAC11gR2/12cR1	Yes	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. When using EMPD and LifeKeeper at the same time, please use EMPD V2.0L24 or later.	
			Yes	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. ETERNUS's Thin Provisioning function is not supported.									
			VxVM 6.0.3 or later	VCS 6.0.3 or later InfoScale Availability 7.0/7.1	No	Supported (V20L14 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by Server vendor or HBA vendor. ETERNUS's Thin Provisioning function is not supported.							

Note 4: When upgrading HBA firmware, please follow the procedure: 1. Disconnect FC cable. 2. Upgrade HBA firmware. 3. Power off server. 4. Reconnect FC cable. 5. Power on server

Note 4: When upgrading HBA firmware, please follow the procedure: 1. Disconnect FC cable, 2. Upgrade HBA firmware, 3. Power off server, 4. Reconnect FC cable, 5. Power on server

LINUX	OS (Kernel) Note 2		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
Other Companies' Servers	RHEL 6 (Intel®64)	Red Hat Enterprise Linux 6 (for Intel®64) RHEL6.2 & KVM	Direct/ via switch	PCI-Express	LP11000/LP11002/ LP1150/LPe11000/ LPe11002/LPe1150	2.12a6	2.82a4	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD	LifeKeeper 8.x	Yes	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
										DeviceMapper	LifeKeeper 8.x	Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	
										VxVM 6.0 or later	VCS 6.0 or later	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	Thin Provisioning function of ETERNUS is not supported.
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	5.12a2	2.00a4	OS bundled		EMPD	LifeKeeper 8.x	Yes	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
										DeviceMapper	LifeKeeper 8.x	Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	
										VxVM 6.0 or later	VCS 6.0 or later	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	Thin Provisioning function of ETERNUS is not supported.
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	3.00 or later	-	OS bundled		EMPD	LifeKeeper 8.x	Yes	Supported (V20L10 or later)	Supported (V10L22 or later)	Supported (V10L40 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
										DeviceMapper	LifeKeeper 8.x	Yes	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	
										VxVM 6.0 or later	VCS 6.0 or later	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	Thin Provisioning function of ETERNUS is not supported.
		Red Hat Enterprise Linux 6 (for Intel®64) [2.6.32-131.0.15.el6] RHEL6.1 & KVM	Direct/ via switch	PCI-Express	LP11000/LP11002/ LP1150/LPe11000/ LPe11002/LPe1150	2.12a6	2.82a4	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L22 or later)	CLUSTERPRO X 3.1	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	
										DeviceMapper	CLUSTERPRO X 3.1	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	
										VxVM 6.0 or later	VCS 6.0 or later	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	5.12a2	2.00a4	OS bundled		EMPD (V2.0L22 or later)	CLUSTERPRO X 3.1	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	
										DeviceMapper	CLUSTERPRO X 3.1	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	
										VxVM 6.0 or later	VCS 6.0 or later	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	3.00 or later	-	OS bundled		EMPD (V2.0L22 or later)	CLUSTERPRO X 3.1	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	
										DeviceMapper	CLUSTERPRO X 3.1	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	
										VxVM 6.0 or later	VCS 6.0 or later	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.
		Red Hat Enterprise Linux 6 (for Intel®64) [2.6.32-71.el6] RHEL6.0 & KVM	Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/ LP1150/LPe11000/ LPe11002/LPe1150	2.12a6	2.82a4	8.3.5.35	Refer to "Switch pages" for supported FC switches.	EMPD	-	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
										DeviceMapper	-	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
										VxVM 5.1	VCS 5.1	No	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Thin Provisioning function of ETERNUS can not be used.
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	5.12a2	2.00a4	OS bundled		EMPD (V2.0L21 or later)	-	Yes	Supported (V20L10 or later)	N.A.	N.A.	
						2.82a3	1.11a5	OS bundled		EMPD	-	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
										DeviceMapper	-	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
										VxVM 5.1	VCS 5.1	No	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Thin Provisioning function of ETERNUS can not be used.
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462/ QLE2464	Multiboot 1.94	-	OS bundled		EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	N.A.	N.A.	
						3.0	-	8.03.04.12.06.0-40		EMPD	-	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
										DeviceMapper	-	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	3.0	-	8.03.04.12.06.0-40		VxVM 5.1	VCS 5.1	No	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Thin Provisioning function of ETERNUS can not be used.
			via switch	PCI-Express	Brocade 815/825	2.3.0.3	2.3.0.3	2.3.0.3		EMPD	-	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
										DeviceMapper	-	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	

LINUX		OS (Kernel) Note 2	Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
Other Companies' Servers	RHEL 5 (x86) [2.6.18-398.el5] RHEL5.11	Red Hat Enterprise Linux 5.11 (for x86) [2.6.18-398.el5] RHEL5.11	Direct/ via switch	PCI-Express	QLE2670/QLE2672 QLE2660/QLE2662	Note 3	Note 3	Note 3	Refer to "Switch" pages" for supported FC switches.	EMPD (V2.0L22 or later)	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Planned 2	Planned 2	Planned 2	-When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later. -Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
			DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Planned 2	Planned 2	Planned 2		Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.						
		Direct/ via switch	PCI-Express	LP11000/LP11002/ LP1150L/Pe11000/ LPe11002/LPe1150	Note 3	Note 3 Note 4	Note 3	EMPD (V2.0L22 or later)	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	-When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later. -Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.		
		DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.								
		Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	Note 3	Note 3 Note 4	Note 3	EMPD (V2.0L22 or later)	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	-When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later. -Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.		
		DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.								
		Direct/ via switch (see instruction for use)	PCI-Express	LPe16000B /LPe16002B/ LPe16000/LPe16002	Note 3	Note 3 Note 4	Note 3	EMPD (V2.0L24 or later)	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	-When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later. -Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. -When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.		
		DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. -When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.								
		Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: Ak344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Note 3	Note 3	Note 3	EMPD (V2.0L22 or later)	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	-When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later. -Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.		
		DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.								
		Direct/ via switch	PCI-Express	QLE2670/QLE2672 QLE2660/QLE2662	Note 3	Note 3	Note 3	EMPD (V2.0L22 or later)	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Planned 2	Planned 2	Planned 2	-When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later. -Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.		
		DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Planned 2	Planned 2	Planned 2	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.								
		Direct/ via switch	PCI-Express	Brocade 1860	Note 3	Note 3	Note 3	DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.		
		Direct/ via switch	PCI-Express	LP11000/LP11002/ LP1150L/Pe11000/ LPe11002/LPe1150	2.12a6	2.82a4	OS bundled	EMPD (V2.0L22 or later)	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	-When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later. -Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.		
		DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.								
		Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	5.12a2	2.00a4	OS bundled	EMPD (V2.0L22 or later)	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	-When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later. -Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.		
		DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.								
		Direct/ via switch	PCI-Express	LPe16000B /LPe16002B/ LPe16000/LPe16002	Note 3	Note 3 Note 4	Note 3	EMPD (V2.0L24 or later)	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	-Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. -When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.		
		DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. -When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.								
		Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: Ak344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	3.00 or later	-	OS bundled	EMPD (V2.0L22 or later)	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	-When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later. -Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.		
		DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.								
		Direct/ via switch	PCI-Express	Brocade 1860	3.2.0.0	3.2.0.0	3.2.0.0	DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.		
		Direct/ via switch	PCI-Express	LP11000/LP11002/ LP1150L/Pe11000/ LPe11002/LPe1150	2.12a6	2.82a4	OS bundled	EMPD (V2.0L22 or later)	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.		
		DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.								
Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	5.12a2	2.00a4	OS bundled	EMPD (V2.0L22 or later)	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.				
DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.										
Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: Ak344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	3.00 or later	-	OS bundled	EMPD (V2.0L22 or later)	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.				
DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.										
Direct/ via switch	PCI-Express	Brocade 1860	3.2.0.0	3.2.0.0	3.2.0.0	DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Planned 2	Planned 2	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.				
Direct/ via switch	PCI-Express	LP11000/LP11002/ LP1150L/Pe11000/ LPe11002/LPe1150	2.12a6	2.82a4	OS bundled	EMPD	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L11 or later)	Supported (V10L19 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.				
DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L11 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.										
Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	5.12a2	2.00a4	OS bundled	EMPD	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L11 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.				
DeviceMapper	CLUSTERPRO X3.1	No	Supported (V20L11 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.										
Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: Ak344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	3.00 or later	-	OS bundled	EMPD	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L11 or later)	Supported (V10L19 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.				
DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L11 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.										
EMPD	CLUSTERPRO X3.1	No	Supported (V10L31 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)											

LINUX	OS (Kernel) Note 2		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
Other Companies' Servers	RHEL 5 (x86)	Red Hat Enterprise Linux 5 (for x86) [2.6.18-238.el5] RHEL5.6	Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/ LP1150/LPe11000/ LPe11002/LPe1150	3.11a5	2.00a4	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L21 or later)	-	Yes	Supported (V20L10 or later)	N.A.	N.A.	
						2.12a6	2.82a4	8.2.0.96		EMPD	OracleRAC 10gR2	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	5.12a2	2.00a4	OS bundled		DeviceMapper	-	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
						2.12a6	2.00a4	8.2.0.96		EMPD (V2.0L21 or later)	-	Yes	Supported (V20L10 or later)	N.A.	N.A.	
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462/ QLE2464	3.0	-	OS bundled		EMPD	OracleRAC 10gR2	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
										DeviceMapper	-	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	3.0	-	OS bundled		EMPD	OracleRAC 10gR2	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
										DeviceMapper	-	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			via switch	PCI-Express	Brocade 815/R25	2.3.0.0	2.3.0.0	2.3.0.0		EMPD	-	No	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
										DeviceMapper	-	No	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
		Red Hat Enterprise Linux 5 (for x86) [2.6.18-194.el5] RHEL5.5	Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/ LP1150/LPe11000/ LPe11002/LPe1150	1.70a3 2.01a2 2.02a2	2.50a6 2.72a2 2.80a4 2.82a3	8.2.0.63.3p		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
						3.11a5	2.00a4	OS bundled		DeviceMapper			Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
						2.12a6	2.82a4	8.2.0.96		EMPD (V2.0L21 or later)			Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
										DeviceMapper			Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.10a5 1.11a5	8.2.0.63.3p		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
						2.12a6	2.00a4	8.2.0.96		DeviceMapper			Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
						5.12a2	2.00a4	OS bundled		EMPD			Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
						5.12a2	2.00a4	8.2.0.63.3p-1		DeviceMapper			Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462/ QLE2464	2.1	-	8.03.01.04.05.05-k		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
						3.0	-	8.03.03.15.05.06-k		DeviceMapper			Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
										EMPD			Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
										DeviceMapper			Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.1	-	8.03.01.04.05.05-k		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
						3.0	-	8.03.03.15.05.06-k		DeviceMapper			Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
										EMPD			Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
										DeviceMapper			Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			via switch	PCI-Express	Brocade 815/R25	2.3.0.0	2.3.0.0	2.3.0.0		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
										DeviceMapper			Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150	1.70a3 2.01a2 2.02a2	2.50a6 2.72a2 2.82a3	8.2.0.48.2p		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
						2.02a2	1.10a5 1.11a5	8.2.0.48.2p		DeviceMapper			Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
						2.1	-	8.03.00.10.05.04-k OS bundled		EMPD			Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
						1.54	-	8.03.00.10.05.04-k OS bundled		DeviceMapper			Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.1	-	8.02.23		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
										DeviceMapper			Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
										EMPD			Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
										DeviceMapper			Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	

Note 2: Please check if the listed Linux kernel version is supported on the customer's Servers.

LINUX	OS (Kernel) Note 2		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
Other Companies' Servers	RHEL 5 (x86)	Red Hat Enterprise Linux 5 (for x86) [2.6.18-128.el5] RHEL5.3	Direct/ via switch	PCI-bus/ PCI-Express	LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	1.70a3	1.91a1	8.2.0.33.3p	Refer to "Switch pages" for supported FC switches.	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.10a5	8.2.0.33.3p		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-bus	QLA2340/QLA2342		-			EMPD	-	No	Planned 2	Planned 2	N.A.	
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462	2.02	-	8.02.14.01		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct	PCI-Express	QLE2560/QLE2562 HP: AK344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.02	-	8.02.14.01		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-bus/ PCI-Express	LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	2.02a2	1.92a1	8.2.0.29/ 8.2.0.39		Device Mapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
			Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150	2.02a2	2.80a4	8.2.0.39		Device Mapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.10a5	8.2.0.29		Device Mapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-bus	QLA2460/QLA2462	2.02	-	8.02.14.01		Device Mapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct	PCI-Express	QLE2560/QLE2562 HP: AK344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.02	-	8.02.14.01		Device Mapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
		RedHat Enterprise Linux 5 (for x86) [2.6.18-92.el5] RHEL5.2	Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.11a5	8.2.0.22		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
		RedHat Enterprise Linux 5 (for x86) [2.6.18-53.el5] RHEL5.1	Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.10a5 1.11a5	8.1.10.9		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	

Note 2: Please check if the listed Linux kernel version is supported on the customer's Servers.

Linux	OS (Kernel) Note 2		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
Other Companies' Servers	RHEL 5 (Intel®64)	Red Hat Enterprise Linux 5.11 (for Intel®64) [2.6.18-398.el5] RHEL5.11	Direct/ via switch	PCI-Express	QLE2670/QLE2672 QLE2660/QLE2662	Note 3	Note 3	Note 3	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L22 or later)	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Planned 2	Planned 2	Planned 2	-When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later. -Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
			Direct/ via switch	PCI-Express	LP11000/LP11002/ LP1150L/Pe11000/ LPe11002/LPe1150	Note 3	Note 3 Note 4	Note 3	Refer to "Switch pages" for supported FC switches.	DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Planned 2	Planned 2	Planned 2	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
									EMPD (V2.0L22 or later)	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	-When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later. -Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.	
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	Note 3	Note 3 Note 4	Note 3		DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
								EMPD (V2.0L22 or later)	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	-When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later. -Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.		
		Red Hat Enterprise Linux 5.10 (for Intel®64) [2.6.18-371.el5] RHEL5.10	Direct/ via switch (see Instruction for use)	PCI-Express	LPe16000B/LPe16002B/ LPe16000/LPe16002	Note 3	Note 3 Note 4	Note 3		DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	-When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later. -Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. -When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.
								EMPD (V2.0L22 or later)	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. -When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.		
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Note 3	Note 3	Note 3		DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	-When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later. -Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
								EMPD (V2.0L22 or later)	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Planned 2	Planned 2	Planned 2	-When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later. -Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.		
			Direct/ via switch	PCI-Express	QLE2670/QLE2672	Note 3	Note 3	Note 3		DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Planned 2	Planned 2	Planned 2	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
								DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.		
			Direct/ via switch	PCI-Express	Brocade 1860	Note 3	Note 3	Note 3		DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
								DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	-When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later. -Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.		
			Direct/ via switch	PCI-Express	LP11000/LP11002/ LP1150L/Pe11000/ LPe11002/LPe1150	2.12a6	2.82a4	OS bundled		DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
								VxVM6.0 or later	VCS6.0 or later	No	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.		
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	5.12a2	2.00a4	OS bundled		DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	-When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later. -Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
								VxVM6.0 or later	VCS6.0 or later	No	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.		
		Red Hat Enterprise Linux 5.9 (for Intel®64) [2.6.18-348.el5] RHEL5.9	Direct/ via switch	PCI-Express	LPe16000B/LPe16002B/ LPe16000/LPe16002	Note 3	Note 3 Note 4	Note 3		EMPD (V2.0L24 or later)	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	-Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. -When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later. -When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.
								DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	-Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. -When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.		
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	3.00 or later	-	OS bundled		DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	-When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower. -ETERNUS's Thin Provisioning function is not supported.
								VxVM6.0 or later	VCS6.0 or later	No	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	-When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later. -Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.		
			Direct/ via switch	PCI-Express	Brocade 1860	3.2.0.0	3.2.0.0	3.2.0.0		DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
								VxVM6.0 or later	VCS6.0 or later	No	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.		
			Direct/ via switch	PCI-Express	LP11000/LP11002/ LP1150L/Pe11000/ LPe11002/LPe1150	2.12a6	2.82a4	OS bundled		EMPD (V2.0L22 or later)	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
								DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.		
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	5.12a2	2.00a4	OS bundled		DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.
								EMPD (V2.0L22 or later)	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.		
		Red Hat Enterprise Linux 5.8 (for Intel®64) [2.6.18-308.el5] RHEL5.8	Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	3.00 or later	-	OS bundled		DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L12 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
								VxVM6.0 or later	VCS6.0 or later	No	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.		
			Direct/ via switch	PCI-Express	Brocade 1860	3.2.0.0	3.2.0.0	3.2.0.0		DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Planned 2	Planned 2	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
								VxVM6.0 or later	VCS6.0 or later	No	Supported (V20L12 or later)	Supported (V10L35 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.		

Note 2: Please check if the listed Linux kernel version is supported on the customer's Servers.
 Note 3: Please use BIOS/Firmware/Driver which are supported by HBA vendor and server vendor.
 Note 4: When upgrading HBA firmware, please follow the procedure: 1. Disconnect FC cable, 2. Upgrade HBA firmware, 3. Power off server, 4. Reconnect FC cable, 5. Power on server

Linux	OS (Kernel) Note 2		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use		
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA			
Other Companies' Servers	RHEL 5 (Intel®64)	Red Hat Enterprise Linux 5 (for Intel®64) [2.6.18-274.el5] RHEL5.7	Direct/ via switch	PCI-Express	LP11000/LP11002/ LP1150/LPe11000/ LPe11002/LPe1150	2.12a6	2.82a4	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L11 or later)	Supported (V10L19 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.		
										DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L11 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)		Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.	
										VxVM 5.1 or later	VCSS.1 or later	No	Supported (V20L11 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)			ETERNUS's Thin Provisioning function is not supported.
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	5.12a2	2.00a4	OS bundled		EMPD	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L11 or later)	Supported (V10L19 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.		
										DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L11 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)		Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.	
										EMPD	CLUSTERPRO X3.1	No	Planned 2	Supported (V10L31 or later)	Supported (V10L40 or later)			
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: Ak344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	3.00 or later	-	OS bundled		VxVM 5.1 or later	VCSS.1 or later	No	Supported (V20L11 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.		
										EMPD	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L11 or later)	Supported (V10L19 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.		
										DeviceMapper	OracleRAC 10gR2 LifeKeeper 8.x	Yes	Supported (V20L11 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)		Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.	
		Red Hat Enterprise Linux 5 (for Intel®64) [2.6.18-238.el5] RHEL5.6	Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/ LP1150/LPe11000/ LPe11002/LPe1150	3.11a5	2.00a4	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD (V2.0L21 or later)	-	Yes	Supported (V20L10 or later)	N.A.	N.A.	ETERNUS's Thin Provisioning function is not supported.		
						2.12a6	2.82a4	8.2.0.96		EMPD	OracleRAC 10gR2	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)		Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.	
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	5.12a2	2.00a4	OS bundled		VxVM 5.1	VCS 5.1	No	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.		
						2.12a6	2.00a4	8.2.0.96		EMPD (V2.0L21 or later)	-	Yes	Supported (V20L10 or later)	N.A.	N.A.			
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462/ QLE2464	3.0	-	8.03.03.15.05.06-k		EMPD	OracleRAC 10gR2	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.		
										DeviceMapper	-	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)			
			Direct/ via switch	PCI-Express	HP: Ak344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	3.0	-	8.03.03.15.05.06-k		VxVM 5.1	VCS 5.1	No	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.		
										EMPD	OracleRAC 10gR2	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.		
			via switch	PCI-Express	Brocade 815/825	2.3.0.0	2.3.0.0	2.3.0.0		VxVM 5.1	VCS 5.1	No	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.		
										EMPD	-	Yes	Supported (V20L11 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)			
			Red Hat Enterprise Linux 5 (for Intel®64) [2.6.18-194.el5] RHEL5.5	Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/ LP1150/LPe11000/ LPe11002/LPe1150	1.70a3 2.01a2 2.02a2	2.50a6 2.72a2 2.80a4 2.82a3		8.2.0.63.3p	Refer to "Switch pages" for supported FC switches.	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.
							3.11a5	2.00a4		OS bundled		EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	N.A.	N.A.	
				Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	2.82a3		OS bundled		VxVM 5.1	VCS 5.1	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.
							2.12a6	2.82a4		8.2.0.96		EMPD	OracleRAC 10gR2	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
				Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.10a5 1.11a5		8.2.0.63.3p		VxVM 5.1	VCS 5.1	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.
							2.02a2	1.11a5		OS bundled		DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
				Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	5.12a2	2.00a4		OS bundled		VxVM 5.1	VCS 5.1	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.
							2.12a6	2.00a4		8.2.0.96		EMPD (V2.0L23 or later)	LifeKeeper 7.5/8.x	No	Supported (V20L10 or later)	Supported (V10L31 or later)	Supported (V10L40 or later)	
				Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462/ QLE2464	2.1	-		8.03.01.04.05.05-k		DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.
												EMPD	OracleRAC 10gR2	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
		via switch		PCI-Express	Brocade 815/R25	2.3.0.0	2.3.0.0	2.3.0.0	VxVM 5.1	VCS 5.1		No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.		
									DeviceMapper	-		Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)			
		via switch		PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462/ QLE2464	3.0	-	8.03.03.15.05.06-k	DeviceMapper	-		Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.		
									EMPD	OracleRAC 10gR2		Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)			
		via switch		PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462/ QLE2464	3.0	-	8.03.03.15.05.06-k	VxVM 5.1	VCS 5.1		No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.		
									DeviceMapper	-		Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)			

Note 2: Please check if the listed Linux kernel version is supported on the customer's Servers.

LINUX	OS (Kerrel) Note 2		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use						
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA							
Other Companies' Servers	RHEL 5 (Intel64)	Red Hat Enterprise Linux 5 (for Intel64) [2.6.18-194.el5] RHEL5.5	Direct/ via switch	PCI-Express	QLE2560/QLE2562	2.1	-	8.03.01.04.05.05-k	Refer to "Switch pages" for supported FC switches.	EMPD	-	No	Supported (V20L10 or later)	Planned 2	Planned 2	Please use PSR10.2.0.5 or later when using OracleRAC 10gR2.						
					HP: AK344AA/J764A QMH2562/QMH2572	3.0	-	8.03.03.15.05.06-k		DeviceMapper			Supported (V20L10 or later)	Planned 2	Planned 2							
					IBM: 42D0501/42D0510					EMPD			Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)							
			via switch	PCI-Express	Brocade 815/825	2.3.0.0	2.3.0.0	2.3.0.0		VxVM 5.1	VCS 5.1	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.						
					EMPD	-	Yes	Supported (V20L10 or later)		Supported (V10L11 or later)	Supported (V10L40 or later)											
					DeviceMapper	-	Yes	Supported (V20L10 or later)		Supported (V10L11 or later)	Supported (V10L40 or later)											
			Red Hat Enterprise Linux 5 (for Intel64) [2.6.18-164.el5] RHEL5.4	Direct/ via switch	PCI-bus/ PCI-Express	LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	2.02a2	1.92a1		8.2.0.63	Refer to "Switch pages" for supported FC switches.	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	ETERNUS's Thin Provisioning function is not supported.				
						Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150		1.70a3 2.01a2 2.02a2		2.50a6 2.72a2 2.82a3	8.2.0.48.2p	EMPD	-	No	Supported (V20L10 or later)		Supported (V10L11 or later)	Supported (V10L40 or later)		
								Direct/ via switch		PCI-Express		LPe12000/LPe12002/ LPe1250	2.02a2	2.82a4	8.2.0.63	EMPD	-		No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)
		Direct/ via switch			PCI-bus	QLA2340/QLA2342	2.1		-			8.03.00.10.05.04-k OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)		N.A.			
						Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462	1.54	-		8.03.00.10.05.04-k OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)		Supported (V10L40 or later)			
		Direct/ via switch			PCI-Express			QLE2560/QLE2562	2.1	-		8.03.00.10.05.04-k OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)		Supported (V10L40 or later)			
						Direct/ via switch	PCI-Express	HP: AK344AA/J764A QMH2562/QMH2572	2.1	-		8.03.00.10.05.04-k OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)		Supported (V10L40 or later)			
		Direct/ via switch			PCI-bus/ PCI-Express			LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	2.02a2	1.92a1		8.2.0.63	Device Mapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)		N.A.			
						Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150	2.02a2	2.82a4		8.2.0.63		-	No	Supported (V20L10 or later)	Supported (V10L11 or later)		Supported (V10L40 or later)			
		Direct/ via switch			PCI-Express			LPe12000/LPe12002/ LPe1250	2.02a2	1.11a5		8.2.0.63		-	No	Supported (V20L10 or later)	Supported (V10L11 or later)		Supported (V10L40 or later)			
						Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462	2.1	-		8.03.00.10.05.04-k OS bundled		-	No	Supported (V20L10 or later)	Supported (V10L11 or later)		Supported (V10L40 or later)			
		Direct/ via switch			PCI-Express			QLE2560/QLE2562	2.1	-		8.03.00.10.05.04-k OS bundled		-	No	Supported (V20L10 or later)	Supported (V10L11 or later)		Supported (V10L40 or later)			
						HP: AK344AA/J764A QMH2562/QMH2572	Supported (V20L10 or later)	Supported (V10L11 or later)								Supported (V10L40 or later)						
		Direct/ via switch			PCI-bus	LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	2.02a2	1.92a1	8.2.0.63	Refer to "Switch pages" for supported FC switches.		VxVM 5.1		VCS 5.1 (including Oracle RAC) Note 3	No	Supported (V20L10 or later)	Supported (V10L11 or later)		N.A.	When using VxVM 5.1, the maximum number of LUNs is 128. For VxVM 5.1, download of driver for ETERNUS (Array Support Library) is not necessary. When configuring cluster by Veritas environment, there is a limitation of number of paths from one storage. Please satisfy the formula below. # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 1024 When one storage is used by multiple clusters, then # of path is the sum of all cluster's path. ETERNUS's Thin Provisioning function is not supported.		
						Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150/ LPe11000/LPe11002/ LPe1150	2.02a2							2.82a4	8.2.0.63		No		Supported (V20L10 or later)	Supported (V10L11 or later)
		Direct/ via switch			PCI-Express			LPe12000/LPe12002/ LPe1250	2.02a2							1.11a5	8.2.0.63		No		Supported (V20L10 or later)	Supported (V10L11 or later)
						Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462/ QLE2464	2.1							-	8.02.23		No		Supported (V20L10 or later)	Supported (V10L11 or later)
		Direct/ via switch			PCI-Express			QLE2560/QLE2562	2.1							-	8.03.00.10.05.04-k OS bundled		No		Supported (V20L10 or later)	Supported (V10L11 or later)
						HP: AK344AA/J764A QMH2562/QMH2572	Supported (V20L10 or later)	Supported (V10L11 or later)													Supported (V10L40 or later)	
		Direct/ via switch			PCI-bus/ PCI-Express	IBM: 42D0501/42D0510	2.1	-	8.03.00.10.05.04-k OS bundled							No	Supported (V20L10 or later)		Supported (V10L11 or later)		Supported (V10L40 or later)	

Note 2: Please check if the listed Linux kernel version is supported on the customer's Servers.

LINUX	OS (Kernel) Note 2		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
Other Companies' Servers	RHEL 5 (Intel64)	Red Hat Enterprise Linux 5 (for Intel64) [2.6.18-128.el5] RHEL5.3	Direct/ via switch	PCI-bus/ PCI-Express	LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	1.70a3	1.91a1	8.2.0.33.3p	Refer to "Switch pages" for supported FC switches.	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.10a5	8.2.0.33.3p		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-bus	QLA2340/QLA2342		-			EMPD	-	No	Planned 2	Planned 2	N.A.	
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2462	2.02	-	8.02.14.01		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.02	-	8.02.14.01		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-bus/ PCI-Express	LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	2.02a2	1.92a1	8.2.0.29/ 8.2.0.39		Device Mapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
			Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150	2.02a2	2.80a4	8.2.0.39		Device Mapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.10a5	8.2.0.29		Device Mapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-bus	QLA2460/QLA2462	2.02	-	8.02.14.01		Device Mapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.02	-	8.02.14.01		Device Mapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150	2.02a2	2.82a3	OS bundled		VxVM 5.1	VCS 5.1	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	- When using VxVM 5.1, the maximum number of LUNs is 128. - For VxVM 5.1, download of driver for ETERNUS (Array Support Library) is not necessary. - When configuring cluster by Veritas environment, there is a limitation of number of paths from one storage. Please satisfy the formula below. # of LUNs shared among cluster x # of paths to the LUN from one node x # of nodes < 1024 - When one storage is used by multiple clusters, then # of path is the sum of all cluster's path. - ETERNUS's Thin Provisioning function is not supported.
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.11a5	OS bundled					Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
		RedHat Enterprise Linux 5 (for Intel64) [2.6.18-92.el5] RHEL5.2	Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.11a5	8.2.0.22	Refer to "Switch pages" for supported FC switches.	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
		RedHat Enterprise Linux 5 (for Intel64) [2.6.18-53.el5] RHEL5.1	Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.10a5 1.11a5	8.1.10.9		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	

Note 2: Please check if the listed Linux kernel version is supported on the customer's Servers.

LINUX	OS (Kernel) Note 2		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
Other Companies' Servers	RHEL 4 (x86)	Red Hat Enterprise Linux AS/ES (v.4 for x86) [2.6.9-100.EL.] RHEL4.9	Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150/ LPe11000/LPe11002/ LPe1150	2.02a2	1.11a5	OS bundled (8.0.16.46)	Refer to "Switch pages" for supported FC switches.	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	5.12a2	2.00a4	OS bundled		EMPD (V2.0L21 or later)	-	Yes	Supported (V20L10 or later)	N.A.	N.A.	
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2340/QLA2342/ QLA2344/QLA2360/ QLE2362	1.54	-	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462/ QLE2464	Multi-boot 1.94	-	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Multi-boot 2.37	-	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
		RedHat Enterprise Linux AS/ES (v.4 for x86) [2.6.9-89.EL.] RHEL4.8	Direct/ via switch	PCI-bus/ PCI-Express	LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	1.70a3	1.91a5	OS bundled (8.0.16.46)		EMPD	-	No	Supported (V20L10 or later)	Planned 2	N.A.	
			Direct/ via switch	PCI-bus	LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	2.02a2	1.92a1	OS bundled		EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	N.A.	N.A.	
			Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150/ LPe11000/LPe11002/ LPe1150	2.01a2	2.72a2	OS bundled (8.0.16.46)		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.10a5	OS bundled (8.0.16.46)		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	QLA2340/QLA2342/ QLA2344/QLA2360/ QLE2362	1.54	-	OS bundled		EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	N.A.	N.A.	
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462/ QLE2464	2.02	-	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Multi-boot 1.94	-	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Multi-boot 2.37	-	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-bus/ PCI-Express	LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	1.70a3	1.91a1	8.0.16.40		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
			Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150	1.70a3	2.50a6	8.0.16.40		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
		Red Hat Enterprise Linux AS/ES (v.4 for x86) [2.6.9-78.0.1.EL.] RHEL4.7	Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.10a5	8.0.16.44		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	QLA2340/QLA2342					EMPD	-	No	Planned 2	Planned 2	Planned 2	
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462					EMPD	-	No	Planned 2	Planned 2	Planned 2	
			Direct	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.02	-	8.02.14.01		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			via switch	PCI-bus/ PCI-Express	LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	2.02a2	2.80a4	8.0.16.40		VxVM 5.0	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
			via switch	PCI-Express	LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	2.02a2	1.11a5	8.0.16.46		VxVM 5.0	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
			via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150	2.02a2	2.80a4	8.0.16.40		VxVM 5.0	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.11a5	8.0.16.46		VxVM 5.0	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.10a5	8.2.0.29		VxVM 5.0	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462	2.1	-	8.02.23		VxVM 5.0	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
		Red-Hat Enterprise Linux AS/ES (v.4 for x86) [2.6.9-67.EL.] RHEL4.6	Direct/ via switch	PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150	2.02a2	2.82a3	8.0.16.34		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
		Red-Hat Enterprise Linux AS/ES (v.4 for x86) [2.6.9-55.EL.] RHEL4.5	Direct/ via switch	PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150	2.02a2	2.82a3	8.0.16.27		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	

Note 2: Please check if the listed Linux kernel version is supported on the customer's Servers.

Linux	OS (Kernel) Note 2		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
Other Companies' Servers	RHEL 4 (EM64T)	Red Hat Enterprise Linux AS/ES (v.4 for EM64T) [2.6.9-100.EL] RHEL4.9	Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150/ LPe11000/LPe11002/ LPe1150	2.02a2	1.11a5	OS bundled (8.0.16.46)	Refer to "Switch pages" for supported FC switches.	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	5.12a2	2.00a4	OS bundled		EMPD (V2.0L21 or later)	-	Yes	Supported (V20L10 or later)	N.A.	N.A.	
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2340/QLA2342/ QLA2344/QLA2360/ QLE2362	1.54	-	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462/ QLE2464	Multi-boot 1.94	-	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Multi-boot 2.37	-	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
		RedHat Enterprise Linux AS/ES (v.4 for EM64T) [2.6.9-89.EL] RHEL4.8	Direct/ via switch	PCI-bus/ PCI-Express	LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	1.70a3	1.91a5	OS bundled (8.0.16.46)		EMPD	-	No	Supported (V20L10 or later)	Planned 2	N.A.	
			Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150/ LPe11000/LPe11002/ LPe1150	2.02a2	1.92a1	8.0.16.47		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
			Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150/ LPe11000/LPe11002/ LPe1150	2.02a2	1.92a1	OS bundled		EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	N.A.	N.A.	
			Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150/ LPe11000/LPe11002/ LPe1150	2.01a2	2.72a2	OS bundled (8.0.16.46)		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150/ LPe11000/LPe11002/ LPe1150	2.02a2	2.82a4	8.0.16.47		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150/ LPe11000/LPe11002/ LPe1150	2.02a2	1.11a5	OS bundled (8.0.16.46)		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.10a5	OS bundled (8.0.16.46)		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.11a5	8.0.16.47		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	5.12a2	2.00a4	OS bundled		EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	N.A.	N.A.	
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.82a3	1.11a5	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2340/QLA2342/ QLA2344/QLA2360/ QLE2362	1.54	-	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2340/QLA2342/ QLA2344/QLA2360/ QLE2362	2.1	-	8.02.23		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2340/QLA2342/ QLA2344/QLA2360/ QLE2362	1.54	-	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462/ QLE2464	2.02	-	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462/ QLE2464	2.1	-	8.02.23		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462/ QLE2464	Multi-boot 1.94	-	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.1	-	8.02.23		EMPD	-	No	Supported (V20L10 or later)	Planned 2	Planned 2	
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Multi-boot 2.37	-	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
		Red Hat Enterprise Linux AS/ES (v.4 for EM64T) [2.6.9-78.0.1.EL] RHEL4.7	Direct/ via switch	PCI-bus/ PCI-Express	LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	1.70a3	1.91a1	8.0.16.40		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
			Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150	1.70a3	2.50a6	8.0.16.40		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.10a5	8.0.16.44		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	QLA2340/QLA2342					EMPD	-	No	Planned 2	Planned 2	N.A.	
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462					EMPD	-	No	Planned 2	Planned 2	Planned 2	
			Direct	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.02	-	8.02.14.01		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.02	-	8.02.14.01		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	

Note 2: Please check if the listed Linux kernel version is supported on the customer's Servers.

LINUX	OS (Kernel) Note 2		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use							
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA								
Other Companies' Servers	RHEL 4 (EM64T)	Red Hat Enterprise Linux AS (v.4 for EM64T) [2.6.9-78.0.1.EL] RHEL4.7	via switch	PCI-bus/ PCI-Express	LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	2.02a2	2.80a4	8.0.16.40	Refer to "Switch pages" for supported FC switches.	VxVM 5.0	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.								
			via switch			2.02a2	1.11a5	8.0.16.46		VxVM 5.0	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.								
			via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150	2.02a2	2.80a4	8.0.16.40		VxVM 5.0	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)								
			via switch			2.02a2	1.11a5	8.0.16.46		VxVM 5.0	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)								
			via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.10a5	8.2.0.29		VxVM 5.0	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)								
			via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462	2.1	-	8.02.23		VxVM 5.0	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)								
		RedHat Enterprise Linux AS/ES (v.4 for EM64T) [2.6.9-67.EL] RHEL4.6	Direct/ via switch	PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150	2.02a2	2.82a3	8.0.16.34		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)								
										RedHat Enterprise Linux AS/ES (v.4 for EM64T) [2.6.9-55.EL] RHEL4.5	Direct/ via switch	PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150	2.02a2	2.82a3		8.0.16.27	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)
																		RHEL4 (iPP)	Red Hat Enterprise Linux AS/ES (v.4 for Itanium) [2.6.9-78.0.1.EL] RHEL4.7	Direct/ via switch	PCI-bus/ PCI-Express	LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	1.70a3
	SUSE12 (x64)	SUSE Linux Enterprise Server 12 for AMD64/Intel 64 GA/SP1 (including xen/KVM)	Direct/ via switch	PCI-Express	LPe16000B/LPe16002B/ LPe16000/LPe16002	Note 3	Note 3	Note 3	Refer to "Switch pages" for supported FC switches.	EMPD	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)								
			Direct/ via switch	PCI-Express	QLE2690/ QLE2692/ QLE2694	Note 3	Note 3	Note 3		DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)								
			Direct/ via switch	PCI-Express	QLE2670/QLE2672 QLE2660/QLE2662	Note 3	Note 3	Note 3		EMPD	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)								
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	Note 3	Note 3	Note 3		DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)								
			Direct/ via switch	PCI-Express	HP: AJ762AA/J763A IBM: 42D0485/42D0495	Note 3	Note 3	Note 3		EMPD	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)								
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: Ak344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Note 3	Note 3	Note 3		DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)								
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: Ak344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Note 3	Note 3	Note 3		DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)								
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: Ak344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Note 3	Note 3	Note 3		DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)								

Note 2: Please check if the listed Linux kernel version is supported on the customer's Servers.
Note 3: Please use BIOS/Firmware/Driver which are supported by HBA vendor and server vendor.

LINUX	OS (Kerrel) Note 2		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
	model name	BIOS version/ EFI driver version			Firmware version	Driver version	DX60 S2	DX80 S2 DX90 S2					DX80 S2 DX90 S2 16Gbps CA			
Other Companies' Servers	SUSE11 (x86)	SUSE Linux Enterprise Server 11 (SP4) Xen	Direct/ via switch	PCI-Express	QLE2690/ QLE2692/ QLE2694	Note 3	Note 3	Note 3	Refer to "Switch pages" for supported FC switches.	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	xen configuration is not supported
			DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	xen configuration is not supported							
			Direct/ via switch	PCI-Express	QLE2670/QLE2672 QLE2660/QLE2662	Note 3	Note 3	Note 3	Refer to "Switch pages" for supported FC switches.	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	xen configuration is not supported
			DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	xen configuration is not supported							
			Direct/ via switch	PCI-Express	QLE2690/ QLE2692/ QLE2694	Note 3	Note 3	Note 3	Refer to "Switch pages" for supported FC switches.	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	xen configuration is not supported
			DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	xen configuration is not supported							
		SUSE Linux Enterprise Server 11 (SP2) Xen	Direct/ via switch	PCI-Express	QLE2670/QLE2672 QLE2660/QLE2662	Note 3	Note 3	Note 3	Refer to "Switch pages" for supported FC switches.	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	xen configuration is not supported
			DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	xen configuration is not supported							
			Direct/ via switch	PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150					EMPD	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	xen configuration is not supported
			DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please apply the following patches when using DeviceMapper. - kpartx-0.4.9-0.66.1.i586.rpm or later - multipath-tools-0.4.9-0.66.1.i586.rpm or later							
			Direct/ via switch	PCI-Express	HP: FC2243/FC2143/ FC2142SR/FC2242SR/ LPe1105-HP IBM: LP1105-BC	2.12a6	2.82a4	OS bundled		EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	xen configuration is not supported
			DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please apply the following patches when using DeviceMapper. - kpartx-0.4.9-0.66.1.i586.rpm or later - multipath-tools-0.4.9-0.66.1.i586.rpm or later							
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	5.12a2	2.00a4	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	xen configuration is not supported
			DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please apply the following patches when using DeviceMapper. - kpartx-0.4.9-0.66.1.i586.rpm or later - multipath-tools-0.4.9-0.66.1.i586.rpm or later							
			Direct/ via switch	PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462/ QLE2464					EMPD	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	xen configuration is not supported
			DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please apply the following patches when using DeviceMapper. - kpartx-0.4.9-0.66.1.i586.rpm or later - multipath-tools-0.4.9-0.66.1.i586.rpm or later							
		SUSE Linux Enterprise Server 11 (SP1) Xen	Direct/ via switch	PCI-Express	HP: FC1142SR/FC1242SR/ FC1143/FC1243/ QMH2462(403619-B21) IBM: 39R6525/39R6527 39M5894/39M5895 26R0890/26R0884	Multi-boot 1.69	-	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	xen configuration is not supported
			DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please apply the following patches when using DeviceMapper. - kpartx-0.4.9-0.66.1.i586.rpm or later - multipath-tools-0.4.9-0.66.1.i586.rpm or later							
			Direct/ via switch	PCI-Express	QLE2560/QLE2562					EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	xen configuration is not supported
			DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please apply the following patches when using DeviceMapper. - kpartx-0.4.9-0.66.1.i586.rpm or later - multipath-tools-0.4.9-0.66.1.i586.rpm or later							
			via switch	PCI-Express	Brocade 815/825	—	—	—		EMPD	—	No	Planned 2	Planned 2	Planned 2	xen configuration is not supported
			DeviceMapper	—	No	Planned 2	Planned 2	Planned 2								
			Direct/ via switch	PCI-Express	Brocade 1860	3.2.0.0	3.2.0.0	3.2.0.0		DeviceMapper	-	No	Planned 2	Planned 2	Supported (V10L40 or later)	Please apply the following patches when using DeviceMapper. - kpartx-0.4.9-0.66.1.i586.rpm or later - multipath-tools-0.4.9-0.66.1.i586.rpm or later
			Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/ LP1150/LPe11000/ LPe11002/LPe1150	2.02a2	1.11a5	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Xen configuration is not supported.
			DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)								
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	5.12	2.00a4	OS bundled		EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Xen configuration is not supported.
			DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)								
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462/ QLE2464	Multi-boot 1.94	-	OS bundled		EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Xen configuration is not supported.
			DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)								
Direct/ via switch	PCI-Express	QLE2560/QLE2562	2.37	-	OS bundled		EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Xen configuration is not supported.			
DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)											
Direct/ via switch	PCI-Express	HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Multi-boot 2.37	-	OS bundled		EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Xen configuration is not supported.			
DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)											
via switch	PCI-Express	Brocade 815/825	2.3.0.0	2.3.0.0	2.3.0.0		EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Xen configuration is not supported.			
DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)											

Note 2: Please check if the listed Linux kernel version is supported on the customer's Servers.
Note 3: Please use BIOS/Firmware/Driver which are supported by HBA vendor and server vendor.

LINUX	OS (Kernel) Note 2		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use					
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA						
Other Companies' Servers	SUSE11 (EM64T)	SUSE Linux Enterprise Server 11 (SP4) Xen	Direct/ via switch	PCI-Express	QLE2690/ QLE2692/ QLE2694	Note 3	Note 3	Note 3	Refer to "Switch pages" for supported FC switches.	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	xen configuration is not supported					
			Direct/ via switch	PCI-Express	QLE2670/QLE2672 QLE2660/QLE2662	Note 3	Note 3	Note 3	Refer to "Switch pages" for supported FC switches.	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	xen configuration is not supported					
			Direct/ via switch	PCI-Express	QLE2690/ QLE2692/ QLE2694	Note 3	Note 3	Note 3	Refer to "Switch pages" for supported FC switches.	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	xen configuration is not supported					
			Direct/ via switch	PCI-Express	QLE2670/QLE2672 QLE2660/QLE2662	Note 3	Note 3	Note 3	Refer to "Switch pages" for supported FC switches.	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	xen configuration is not supported					
		SUSE Linux Enterprise Server 11 (SP3) Xen	Direct/ via switch	PCI-Express	QLE2690/ QLE2692/ QLE2694	Note 3	Note 3	Note 3	Refer to "Switch pages" for supported FC switches.	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	xen configuration is not supported					
			Direct/ via switch	PCI-Express	QLE2670/QLE2672 QLE2660/QLE2662	Note 3	Note 3	Note 3	Refer to "Switch pages" for supported FC switches.	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	xen configuration is not supported					
			Direct/ via switch	PCI-Express	QLE2690/ QLE2692/ QLE2694	Note 3	Note 3	Note 3	Refer to "Switch pages" for supported FC switches.	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	xen configuration is not supported					
			Direct/ via switch	PCI-Express	QLE2670/QLE2672 QLE2660/QLE2662	Note 3	Note 3	Note 3	Refer to "Switch pages" for supported FC switches.	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	xen configuration is not supported					
		SUSE Linux Enterprise Server 11 (SP2) Xen	Direct/ via switch	PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150 HP: FC2243/FC2143/ FC2142SR/FC2242SR/ LPe1105-HP IBM: LP1105-BC	2.12a6	2.82a4	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD	—	No	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	xen configuration is not supported					
			Direct/ via switch	PCI-Express	HP: FC2243/FC2143/ FC2142SR/FC2242SR/ LPe1105-HP IBM: LP1105-BC	2.12a6	2.82a4	OS bundled		DeviceMapper	—	No	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please apply the following patches when using DeviceMapper. - kpartx-0.4.9-0.66.1.x86_64.rpm or later - multipath-tools-0.4.9-0.66.1.x86_64.rpm or later					
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250 HP: AJ762AA/AJ763A IBM: 42D0485/42D0495	5.12a2	2.00a4	OS bundled		VxVM 5.1	VCS 5.1	No	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.					
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250 HP: AJ762AA/AJ763A IBM: 42D0485/42D0495	5.12a2	2.00a4	OS bundled		EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	xen configuration is not supported					
			Direct/ via switch	PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462/QLE2464 HP: FC1142SR/FC1242SR/ FC1143/FC1243/ QMH2462(403619-821) IBM: 39R6525/39R6527 39M5894/39M5895 26R0890/26R0884	Multi-boot 1.69	—	OS bundled		DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please apply the following patches when using DeviceMapper. - kpartx-0.4.9-0.66.1.x86_64.rpm or later - multipath-tools-0.4.9-0.66.1.x86_64.rpm or later					
			Direct/ via switch	PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462/QLE2464 HP: FC1142SR/FC1242SR/ FC1143/FC1243/ QMH2462(403619-821) IBM: 39R6525/39R6527 39M5894/39M5895 26R0890/26R0884	Multi-boot 1.69	—	OS bundled		VxVM 5.1	VCS 5.1	No	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.					
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Multi-boot 2.37 or later	—	OS bundled		EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	xen configuration is not supported					
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Multi-boot 2.37 or later	—	OS bundled		DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	Please apply the following patches when using DeviceMapper. - kpartx-0.4.9-0.66.1.x86_64.rpm or later - multipath-tools-0.4.9-0.66.1.x86_64.rpm or later					
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Multi-boot 2.37 or later	—	OS bundled		VxVM 5.1	VCS 5.1	No	Supported (V20L10 or later)	Supported (V10L25 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.					
			via switch	PCI-Express	Brocade 815/R25	—	—	—		EMPD	-	No	Planned 2	Planned 2	Planned 2	xen configuration is not supported					
			via switch	PCI-Express	Brocade 1860	3.2.0.0	3.2.0.0	3.2.0.0		DeviceMapper	-	No	Planned 2	Planned 2	Planned 2	Please apply the following patches when using DeviceMapper. - kpartx-0.4.9-0.66.1.x86_64.rpm or later - multipath-tools-0.4.9-0.66.1.x86_64.rpm or later					
		SUSE Linux Enterprise Server 11 (SP1) Xen	Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/ LP1150/LPe11000/ LPe11002/LPe1150	2.02a2	1.11a5	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Xen configuration is not supported.					
			Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/ LP1150/LPe11000/ LPe11002/LPe1150	2.02a2	1.11a5	OS bundled		DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)						
			Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/ LP1150/LPe11000/ LPe11002/LPe1150	2.02a2	1.11a5	OS bundled		VxVM 5.1	VCS 5.1	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.					
			Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/ LP1150/LPe11000/ LPe11002/LPe1150	2.02a2	1.11a5	OS bundled		EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	N.A.	N.A.						
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.82a3	1.11a5	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Xen configuration is not supported.					
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.82a3	1.11a5	OS bundled		DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)						
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462/ QLE2464	Multi-boot 1.94	-	OS bundled		VxVM 5.1	VCS 5.1	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.					
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462/ QLE2464	Multi-boot 1.94	-	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Xen configuration is not supported.					
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462/ QLE2464	Multi-boot 1.94	-	OS bundled		DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)						
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462/ QLE2464	Multi-boot 1.94	-	OS bundled		VxVM 5.1	VCS 5.1	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.					
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.37	-	OS bundled		EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	N.A.	N.A.						
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.37	-	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Xen configuration is not supported.					
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.37	-	OS bundled		DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)						
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.37	-	OS bundled		VxVM 5.1	VCS 5.1	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.					
			via switch	PCI-Express	Brocade 815/R25	2.3.0.3	2.3.0.3	2.3.0.3		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	Xen configuration is not supported.					
			via switch	PCI-Express	Brocade 815/R25	2.3.0.3	2.3.0.3	2.3.0.3		DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)						
			via switch	PCI-Express	Brocade 815/R25	2.3.0.3	2.3.0.3	2.3.0.3		VxVM 5.1	VCS 5.1	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	ETERNUS's Thin Provisioning function is not supported.					

Note 2: Please check if the listed Linux kernel version is supported on the customer's Servers.

Note 3: Please use BIOS/Firmware/Driver which are supported by HBA vendor and server vendor.

LINUX	OS (Kernel) Note 2		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
Other Companies' Servers	SUSE10 (x86)	SUSE Linux Enterprise Server 10 (SP 4)	Direct/ via switch	PCI-Express	LP11000/LP11002/ LP1150/LPe11000/ LPe11002/LPe1150	2.12a6	2.82a4	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.11a5	OS bundled		DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Multiboot 3.00 or later	-	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	QLE2560/QLE2562	Multiboot 3.00 or later	-	OS bundled		DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	Brocade 1860	3.2.0.0	3.2.0.0	3.2.0.0		DeviceMapper	-	No	Planned 2	Planned 2	Supported (V10L40 or later)	
			Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/ LP1150/LPe11000/ LPe11002/LPe1150	2.02a2	1.11a5	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	Xen configuration is not supported.
		SUSE Linux Enterprise Server 10 (SP3) Xen	Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.82a3	1.11a5	OS bundled	Refer to "Switch pages" for supported FC switches.	DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	Xen configuration is not supported.
			Direct/ via switch	PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462/ QLE2464	Multi-boot 1.94	-	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462/ QLE2464	Multi-boot 1.94	-	OS bundled		DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.37	-	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Multi-boot 2.37	-	OS bundled		DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	
			via switch	PCI-Express	Brocade 815/R25	2.3.0.0	2.3.0.0	2.3.0.0		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
		SUSE Linux Enterprise Server 10 [2.6.16.60-0.54.5-amp] (SP3)	Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150	2.02a2	2.82a3	8.2.0.48.2p	Refer to "Switch pages" for supported FC switches.	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2340/QLA2342/ QLA2344/ QLE2360/QLE2362	1.54	-	8.02.03		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.1	-	8.02.23		Device Mapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
		SUSE Linux Enterprise Server 10 [2.6.16.60-0.21] (SP2)	Direct/ via switch	PCI-bus	LP11000	1.70a3	2.50a6	8.2.0.22	Refer to "Switch pages" for supported FC switches.	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-bus/ PCI-Express	LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	2.02a2	2.80a4	8.2.0.29		Device Mapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
			Direct/ via switch	PCI-bus/ PCI-Express	LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	2.02a2	1.92a1	8.2.0.39		Device Mapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
			Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150	2.02a2	2.80a4	8.2.0.29		Device Mapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.10a5	8.2.0.29		Device Mapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462	2.02	-	8.02.14.01		Device Mapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.02	-	8.02.14.01		Device Mapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	

Note 2: Please check if the listed Linux kernel version is supported on the customer's Servers.

LINUX	OS (Kernel) Note 2		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
	model name	BIOS version/ EFI driver version			Firmware version	Driver version	DX60 S2	DX80 S2 DX90 S2					DX80 S2 DX90 S2 16Gbps CA			
Other Companies' Servers	SUSE10 (EM64T)	SUSE Linux Enterprise Server 10 (SP 4)	Direct/ via switch	PCI-Express	LP11000/LP11002/ LP1150/LPe11000/ LPe11002/LPe1150	2.12a6	2.82a4	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
			DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)								
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.11a5	OS bundled		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	
			DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)								
		Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.16	-	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)	Supported (V10L40 or later)		
		DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	Supported (V10L40 or later)									
		Direct/ via switch	PCI-Express	Brocade 1860	3.2.0.0	3.2.0.0	3.2.0.0	DeviceMapper	-	No	Planned 2	Planned 2	Supported (V10L40 or later)			
		SUSE Linux Enterprise Server 10 (SP3) Xen	Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/ LP1150/LPe11000/ LPe11002/LPe1150	2.02a2	1.11a5	OS bundled	Refer to "Switch pages" for supported FC switches.	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	Xen configuration is not supported.
			DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)								
			VxVM 5.1	VCS 5.1	No	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)								
			EMPD	-	No	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)		Xen configuration is not supported.						
			DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)								
			VxVM 5.1	VCS 5.1	No	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)								
			EMPD	-	No	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)		Xen configuration is not supported.						
			DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)								
			VxVM 5.1	VCS 5.1	No	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)								
			EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)								
			EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)		Xen configuration is not supported.						
			DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)								
		VxVM 5.1	VCS 5.1	No	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)									
		EMPD	-	No	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)	Xen configuration is not supported.								
		DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L16 or later)	Supported (V10L40 or later)									
		SUSE Linux Enterprise Server 10 [2.6.16.60-0.54.5-smp] (SP3)	Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150	2.02a2	2.82a3	8.2.0.48.2p	Refer to "Switch pages" for supported FC switches.	EMPD V2.0 Patch21	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2340/QLA2342/ QLA2344/ QLE2360/QLE2362	1.54	-	8.02.03		EMPD V2.0 Patch21	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
Direct/ via switch	PCI-Express		QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.1	-	8.02.23	Device Mapper	-		No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)			
SUSE Linux Enterprise Server 10 [2.6.16.60-0.21] (SP2)	Direct/ via switch	PCI-bus	LP11000	1.70a3	2.50a6	8.2.0.22	Refer to "Switch pages" for supported FC switches.	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)			
	Direct/ via switch	PCI-bus/ PCI-Express	LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	2.02a2	2.80a4	8.2.0.29		Device Mapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.			
	Direct/ via switch		2.02a2	1.92a1	8.2.0.39	Device Mapper		-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.				
	Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150	2.02a2	2.80a4	8.2.0.29/ 8.2.0.39		Device Mapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)			
	Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.10a5	8.2.0.29		Device Mapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)			
	Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462	2.02	-	8.02.14.01		Device Mapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)			
	Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.02	-	8.02.14.01		Device Mapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)			
	Direct/ via switch	PCI-bus/ PCI-Express	LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	2.02a2	1.92a1	8.2.0.63			-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.			
	Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150	2.02a2	2.82a4	8.2.0.63			-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)			
	Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.11a5	8.2.0.63			-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)			
SUSE Linux Enterprise Server 10 [2.6.16.60-0.21-smp] SP2	Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462	2.1	-	8.02.23	Refer to "Switch pages" for supported FC switches.		-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)			
	Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: AK344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.1	-	8.02.23			-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)			

Note 2: Please check if the listed Linux kernel version is supported on the customer's Servers.

LINUX	OS (Kernel) Note 2		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
Other Companies' Servers	SUSE10 (EM64T)	SUSE Linux Enterprise Server 10 [2.6. 16. 60-0. 21-smp] SP2	Direct/ via switch	PCI-bus/ PCI-Express	LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	2.02a2	1.92a1	8.2.0.63	Refer to "Switch pages" for supported FC switches.	Device Mapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	For VxVM 5.1, download of driver for ETERNUS (Array Support Library) is not necessary.
			Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150	2.02a2	2.82a4	8.2.0.63			-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.11a5	8.2.0.63			-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462	2.1	-	8.02.23			-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: Ak344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.1	-	8.02.23			-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
		SUSE Linux Enterprise Server 10 [2.6. 16. 60-0. 21-smp] SP2	Direct/ via switch	PCI-bus	LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	2.02a2	1.92a1	8.2.0.63		VCS 5.1 (including Oracle RAC) Note 3	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.		
			Direct/ via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150/ LPe11000/LPe11002/ LPe1150	2.02a2	2.82a4	8.2.0.63			No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)		
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.11a5	8.2.0.63			No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)		
			Direct/ via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462/ QLE2464	2.1	-	8.02.23			No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)		
			Direct/ via switch	PCI-Express	QLE2560/QLE2562 HP: Ak344AA/J764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.1	-	8.02.23			No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)		
			Direct/ via switch	PCI-Express	LPe1150/LP1150	2.02a2	2.82a3	8.2.0.22			VxVM 5.0	VCS 5.0 MP3 (including Oracle RAC) Note 3	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)
	SUSE9 (x86)	SUSE Linux Enterprise Server 9 [2.6.5-7.308.smp] SP4	via switch	PCI-bus/ PCI-Express	LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	2.02a2	1.11a5	8.0.16.46	Refer to "Switch pages" for supported FC switches.	VxVM 5.0	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
			via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150	2.02a2	1.11a5	8.0.16.46		VxVM 5.0	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	3.11a5	2.00a4	OS bundled		EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	N.A.	N.A.	
			via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.11a5	8.0.16.46		VxVM 5.0	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462	2.1	-	8.02.23		VxVM 5.0	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
	SUSE9 (EM64T)	SUSE Linux Enterprise Server 9 (SP3)	via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150	2.02a2	1.11a5	OS bundled	Refer to "Switch pages" for supported FC switches.	VxVM 5.0	VCS 5.0	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.82a3	1.11a5	OS bundled		VxVM 5.0	VCS 5.0	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
		SUSE Linux Enterprise Server 9 [2.6.5-7.308.smp] SP4	via switch	PCI-bus/ PCI-Express	LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	2.02a2	1.11a5	8.0.16.46		VxVM 5.0	VCS 5.0 Note 3	No	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
			via switch	PCI-bus/ PCI-Express	LP11000/LP11002/LP1150 LPe11000/LPe11002/ LPe1150	2.02a2	1.11a5	8.0.16.46		VxVM 5.0	VCS 5.0 Note 3	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			Direct/ via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	3.11a5	2.00a4	OS bundled		EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	N.A.	N.A.	
			via switch	PCI-Express	LPe12000/LPe12002/ LPe1250	2.02a2	1.11a5	8.0.16.46		VxVM 5.0	VCS 5.0 Note 3	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			via switch	PCI-bus/ PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462	2.1	-	8.02.23		VxVM 5.0	VCS 5.0 Note 3	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	
			via switch	PCI-Express	QLA2460/QLA2462/ QLE2460/QLE2462	2.1	-	8.02.23		VxVM 5.0	VCS 5.0 Note 3	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Supported (V10L40 or later)	

Note 2: Please check if the listed Linux kernel version is supported on the customer's Servers.
Note 3: When configuring cluster under Veritas environment, the number of paths for one storage has an upper limit. Please use the formula below.
The number of LUNs shared among clusters x the number of path to these LUNs of one node x the number of nodes < 1024
If multiple clusters are configured with one storage, the left side of above formula is sum of each cluster's above value.

Notes

- For each Operating System, Path Failover software, Cluster System software, please apply necessary patches which are suggested by the product suppliers.
- When enabling Jumbo Frame setting, please disable "Flow Control" of LAN switch.
- If multipath configuration is supported, then single path configuration is also supported. But multipath configuration may be mandatory because of cluster requirement.
- When connecting ETERNUS disk array and server on iSCSI via LAN switch, it is recommended that the speed of network adapter on server and ETERNUS iSCSI host adapter should be matched.
- Recommended example : 10Gbps LAN adapter - LAN switch - 10Gbps iSCSI host interface of ETERNUS
- If the speed of network adapter on server and ETERNUS iSCSI host adapter are not matched, then transmission error may occur due to traffic congestion.
- Not recommended example : 10Gbps LAN adapter - LAN switch - 1Gbps host interface of ETERNUS.
- Please follow the instruction below if ext4 file system of RHEL6 will be used on TPV or FTV;
- When creating file system, please add '-k' option to nullify "Discard operation". (Use "mkfs.ext4 -K device-name" for file creation)
- Do not use "discard" option when mounting file system.
- If above proCedures can not be used, then use the other methods below;
- When using REC, make REC session as "suspended state" or change copy mode to "Stack mode"
- Stop data migration operation by AST

iSCSI native connection

Linux	OS [Kernel]		Connection type	HBA	Driver version	Path Failover	Cluster system	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMEQUEST 2000 series (PQ2800E2/PQ2800L2/ PQ2400E2/PQ2400L2/ PQ2400S2/ PQ2400S2 Lite/ PQ2800E2/ PQ2800E/PQ2800L/ PQ2400E/PQ2400L/ PQ2400S/ PQ2400S Lite/ PQ2800B only)	RHEL7 (Intel64)	Red Hat Enterprise Linux 7 (for Intel64) [3.10.0-514.el7] RHEL7.3	Direct / via switch	NIC and CNA for PRIMEQUEST2000 Note 1	See instruction for use	EMPD (V2.0L27 or later)	PCL	No	Supported (V20L16 or later)	Supported (V10L60 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
	Red Hat Enterprise Linux 6 (for x86 & Intel64) [2.6.32-504.el6] RHEL6.6		Direct / via switch	LAN port (1GbE) on IO unit(MC-3HUX31) (On Board)	See instruction for use	EMPD (V2.0L26 or later)	PCL	No	Supported (V20L16 or later)	Supported (V10L60 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
			Direct / via switch	LAN port (10GbE) on IO unit(MC-3HUX41) (On Board)	See instruction for use	EMPD (V2.0L26 or later)	PCL	No	Supported (V20L16 or later)	Supported (V10L60 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
			Direct / via switch	Dual channel LAN card (1GbE) MC-0JGEA*	See instruction for use	EMPD (V2.0L26 or later)	PCL	No	Supported (V20L16 or later)	Supported (V10L60 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
			Direct / via switch	Quad channel LAN card (1GbE) MC-0JGEB*	See instruction for use	EMPD (V2.0L26 or later)	PCL	No	Supported (V20L16 or later)	Supported (V10L60 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
			Direct / via switch	Dual channel LAN card (10GbE) MC-0JXE3*	See instruction for use	EMPD (V2.0L26 or later)	PCL	No	Supported (V20L16 or later)	Supported (V10L60 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
			Direct / via switch	Dual channel LAN card (10GbE) MC-0JXE4*	See instruction for use	EMPD (V2.0L26 or later)	PCL	No	Supported (V20L16 or later)	Supported (V10L60 or later)	- Please use Driver which is supported by PRIMEQUEST 2000 series.
PRIMEQUEST 2000 series (PQ2800E/PQ2800L/ PQ2400E/PQ2400L/ PQ2400S/ PQ2400S Lite/ PQ2800B only)	RHEL6 (Intel64)	Red Hat Enterprise Linux 6 [2.6.32-431.el6] RHEL6.5	Direct / via switch	LAN port (1GbE) on IO unit(MC-3HUX31) (On Board)	OS bundled	EMPD	PCL	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
			Direct / via switch	LAN port (10GbE) on IO unit(MC-3HUX41) (On Board)	OS bundled	EMPD	PCL	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
			Direct / via switch	MC-0JGEB1/MCX0JGEB1/ MC-0JGEB2/MCX0JGEB2/ MC-0JGEBL	OS bundled	EMPD	PCL	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
			Direct / via switch	MC-0JGE91/MCX0JGE91/ MC-0JGE92/MCX0JGE92/ MC-0JGE9L	OS bundled	EMPD	PCL	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
			Direct / via switch	MC-0JXE31/MCX0JXE31/ MC-0JXE32/MCX0JXE32/ MC-0JXE3L	OS bundled	EMPD	PCL	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
			Direct / via switch	MC-0JXE41/MCX0JXE41/ MC-0JXE42/MCX0JXE42/ MC-0JXE4L	OS bundled	EMPD	PCL	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
			Direct / via switch	Dual channel LAN card(1GbE) MC-0JGEA1/MCX0JGEA1/ MC-0JGEA2/MC-0JGEAL	OS bundled	EMPD	PCL	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
	Red Hat Enterprise Linux 6 [2.6.32-358.el6] RHEL6.4		Direct / via switch	Quad channel LAN card(1GbE) MC-0JGEB1/MCX0JGEB1/ MC-0JGEB2/MC-0JGEBL	OS bundled	EMPD	PCL	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
			Direct / via switch	LAN port (1GbE) on IO unit(MC-3HUX31) (On Board)	OS bundled	EMPD	PCL	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
			Direct / via switch	LAN port (10GbE) on IO unit(MC-3HUX41) (On Board)	OS bundled	EMPD	PCL	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
			Direct / via switch	MC-0JGEB1/MCX0JGEB1/ MC-0JGEB2/MCX0JGEB2/ MC-0JGEBL	OS bundled	EMPD	PCL	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
			Direct / via switch	MC-0JGE91/MCX0JGE91/ MC-0JGE92/MCX0JGE92/ MC-0JGE9L	OS bundled	EMPD	PCL	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
			Direct / via switch	MC-0JXE31/MCX0JXE31/ MC-0JXE32/MCX0JXE32/ MC-0JXE3L	OS bundled	EMPD	PCL	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
			Direct / via switch	MC-0JXE41/MCX0JXE41/ MC-0JXE42/MCX0JXE42/ MC-0JXE4L	OS bundled	EMPD	PCL	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
			Direct / via switch	Dual channel LAN card(1GbE) MC-0JGEA1/MCX0JGEA1/ MC-0JGEA2/MC-0JGEAL	OS bundled	EMPD	PCL	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
			Direct / via switch	Quad channel LAN card(1GbE) MC-0JGEB1/MCX0JGEB1/ MC-0JGEB2/MC-0JGEBL	OS bundled	EMPD	PCL	No	Supported (V20L16 or later)	Supported (V10L54 or later)	

Note 1 : Please contact server supplier about available NIC and CNA.

Linux	OS [Kernel]		Connection type	HBA	Driver version	Path Failover	Cluster system	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMEQUEST 1000 series (PQ1400S2/ 1400E2/1400L2/ 1800E2/1800L2 only)	RHEL 6 (x86 & Intel64)	Red Hat Enterprise Linux 6 [2.6.32-220.el6] RHEL6.3	Direct / via switch	MC-0JGE31/ MC-0JXE11 On Board LAN	OS bundled	EMPD	PCL	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
		Red Hat Enterprise Linux 6 (for x86) [2.6.32-220.el6] RHEL6.2	Direct / via switch	MC-0JGE31	OS bundled	EMPD	PCL	No	Supported (V20L14 or later)	Supported (V10L45 or later)	
			Direct / via switch	MC-0JXE11	OS bundled	EMPD	PCL	No	Supported (V20L14 or later)	Supported (V10L45 or later)	
			Direct / via switch	On Board LAN	OS bundled	EMPD	PCL	No	Supported (V20L14 or later)	Supported (V10L45 or later)	
		Red Hat Enterprise Linux 6 (for x86) [2.6.32-131.0.15.el6] RHEL6.1	Direct / via switch	MC-0JGE31	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Planned 2	
			Direct / via switch	On Board LAN	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Planned 2	
		Red Hat Enterprise Linux 6 [2.6.32-71.el6] RHEL6.0	Direct / via switch	MC-0JGE31	OS bundled/ 1.2.7-1	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L23 or later)	
			Direct / via switch	MC-0JXE11	OS bundled	EMPD	PCL	No	Planned 2	Planned 2	
			Direct / via switch	On Board LAN	OS bundled/ 1.2.7-1	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L23 or later)	
	RHEL 5 (x86 & Intel64)	Red Hat Enterprise Linux 5 [2.6.18-348.el5] RHEL5.9	Direct / via switch	MC-0JGE31/ MC-0JXE11 On Board LAN	OS bundled	EMPD	PCL	fnNo	Supported (V20L16 or later)	Supported (V10L50 or later)	
		Red Hat Enterprise Linux 5 [2.6.18-308.el5] RHEL5.8	Direct / via switch	MC-0JGE31/ MC-0JXE11 On Board LAN	OS bundled	EMPD V2.0L23	PCL	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
		Red Hat Enterprise Linux 5 (for x86 & Intel64) [2.6.18-274.el5] RHEL5.7	Direct / via switch	MC-0JGE31	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L22 or later)	
			Direct / via switch	MC-0JXE11	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L22 or later)	
			Direct / via switch	On Board LAN	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L22 or later)	
		Red Hat Enterprise Linux 5 [2.6.18-238.el5] RHEL5.6	Direct / via switch	MC-0JGE31	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L19 or later)	
			Direct / via switch		OS bundled	DeviceMapper	PCL (GDS patch required)	No	Planned 2	Planned 2	
			Direct / via switch	MC-0JXE11	OS bundled	EMPD	PCL	No	Planned 2	Planned 2	
			Direct / via switch		OS bundled	DeviceMapper	PCL (GDS patch required)	No	Planned 2	Planned 2	
			Direct / via switch	On Board LAN	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L19 or later)	
			Direct / via switch		OS bundled	DeviceMapper	PCL (GDS patch required)	No	Planned 2	Planned 2	

Linux	OS [Kernel]		Connection type	HBA	Driver version	Path Failover	Cluster system	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	RHEL 7 (Intel64)	Red Hat Enterprise Linux 7 [3.10.0-514] RHEL7.3 & KVM	Direct/ via switch	NIC and CNA for PRIMERGY Note 1	OS bundled	EMPD	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
					OS bundled	Devicemapper	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
		Red Hat Enterprise Linux 7 [3.10.0-327] (for Intel64) RHEL 7.2 &KVM	Direct/ via switch	PG-2862/PG-2862L/ PY-LA222 S26361-F3610-L502	OS bundled	EMPD	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
					OS bundled	Devicemapper	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PG-284G/PG-284GL /PG-2841G(L)/ PGB284G/PGB284GL PY-LA242/PYBLA242/ PYBLA242L/ S26361-F3629-L502/E2/E202	OS bundled	EMPD	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
					OS bundled	Devicemapper	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PY-LA234 /PG-2871 S26361-F3611-L501	OS bundled	EMPD	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
					OS bundled	Devicemapper	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PY-LA232/PYBLA232U PY-LA244/PYBLA244U S26361-F3740-L501/E701 S26361-F3739-L501/E701	OS bundled	EMPD	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
					OS bundled	Devicemapper	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PY-LA252/PYBLA252/ PYBLA252L S26361-F3752-L502/E2/E502	OS bundled	EMPD	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
					OS bundled	Devicemapper	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct/ via switch	On Board LAN	OS bundled	EMPD	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
					OS bundled	Devicemapper	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
		Red Hat Enterprise Linux 7 [3.10.0-229] (for Intel64) RHEL 7.1 &KVM	Direct/ via switch	PG-2862/PG-2862L/ PY-LA222 S26361-F3610-L502	OS bundled	EMPD	PCL	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
					OS bundled	Devicemapper	PCL	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PG-284G/PG-284GL /PG-2841G(L)/ PGB284G/PGB284GL PY-LA242/PYBLA242/ PYBLA242L/ S26361-F3629-L502/E2/E202	OS bundled	EMPD	PCL	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
					OS bundled	Devicemapper	PCL	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PY-LA234 /PG-2871 S26361-F3611-L501	OS bundled	EMPD	PCL	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
					OS bundled	Devicemapper	PCL	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PY-LA232/PYBLA232U PY-LA244/PYBLA244U S26361-F3740-L501/E701 S26361-F3739-L501/E701	OS bundled	EMPD	PCL	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
					OS bundled	Devicemapper	PCL	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PY-LA252/PYBLA252/ PYBLA252L S26361-F3752-L502/E2/E502	OS bundled	EMPD	PCL	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
					OS bundled	Devicemapper	PCL	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct/ via switch	On Board LAN	OS bundled	EMPD	PCL	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
					OS bundled	Devicemapper	PCL	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
		Red Hat Enterprise Linux 7 [3.10.0-123] (for Intel64) RHEL 7.0 &KVM	Direct/ via switch	PG-2862/PG-2862L/ PY-LA222 S26361-F3610-L502	OS bundled	EMPD	PCL	No	Supported (V20L14 or later)	Supported (V10L55 or later)	
					OS bundled	Devicemapper	PCL	No	Supported (V20L14 or later)	Supported (V10L55 or later)	
			Direct/ via switch	PG-284G/PG-284GL /PG-2841G(L)/ PGB284G/PGB284GL PY-LA242/PYBLA242/ PYBLA242L/ S26361-F3629-L502/E2/E202	OS bundled	EMPD	PCL	No	Supported (V20L14 or later)	Supported (V10L55 or later)	
					OS bundled	Devicemapper	PCL	No	Supported (V20L14 or later)	Supported (V10L55 or later)	
			Direct/ via switch	PY-LA234 /PG-2871 S26361-F3611-L501	OS bundled	EMPD	PCL	No	Supported (V20L14 or later)	Supported (V10L55 or later)	
					OS bundled	Devicemapper	PCL	No	Supported (V20L14 or later)	Supported (V10L55 or later)	
			Direct/ via switch	PY-LA232/PYBLA232U PY-LA244/PYBLA244U S26361-F3740-L501/E701 S26361-F3739-L501/E701	OS bundled	EMPD	PCL	No	Supported (V20L14 or later)	Supported (V10L55 or later)	
					OS bundled	Devicemapper	PCL	No	Supported (V20L14 or later)	Supported (V10L55 or later)	
			Direct/ via switch	PY-LA252/PYBLA252/ PYBLA252L S26361-F3752-L502/E2/E502	OS bundled	EMPD	PCL	No	Supported (V20L14 or later)	Supported (V10L55 or later)	
					OS bundled	Devicemapper	PCL	No	Supported (V20L14 or later)	Supported (V10L55 or later)	
			Direct/ via switch	On Board LAN	OS bundled	EMPD	PCL 123 / 227	No	Supported (V20L14 or later)	Supported (V10L55 or later)	
					OS bundled	Devicemapper	PCL	No	Supported (V20L14 or later)	Supported (V10L55 or later)	

Note 1 : Please contact server supplier about available NIC and CNA.

Linux	OS [Kernel]		Connection type	HBA	Driver version	Path Failover	Cluster system	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	RHEL 6 (x86, Intel64)	Red Hat Enterprise Linux 6 [2.6.32-642.el6] RHEL6.8 & KVM(Intel64)	Direct/ via switch	NIC and CNA for PRIMERGY Note 1	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L60 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L27 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Planned 2	Planned 2	
		Red Hat Enterprise Linux 6 [2.6.32-573.el6] RHEL6.7 & KVM (Intel64)	Direct/ via switch	PG-2862/PG-2862I/ PY-LA222 S26361-F3610-L502	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L60 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PG-284G/PG-284GL /PG-2841G(L)/ PGB284G/PGB284GL PY-LA242/PYBLA242/ PYBLA242U/ S26361-F3629-L502/E2/E202	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L60 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PY-LA234 /PG-2871 S26361-F3611-L501	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L60 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PY-LA232/PYBLA232U PY-LA244/PYBLA244U S26361-F3740-L501/E701 S26361-F3739-L501/E701	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L60 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct/ via switch	PY-LA252/PYBLA252/ PYBLA252L S26361-F3752-L502/E2/E502	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L60 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct/ via switch	On board LAN	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L60 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
		Red Hat Enterprise Linux 6 [2.6.32-504.el6] RHEL6.6 & KVM (Intel64)	Direct/ via switch	PG-2862/PG-2862I/ PY-LA222 S26361-F3610-L502	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L56 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L56 or later)	
			Direct/ via switch	PG-284G/PG-284GL /PG-2841G(L)/ PGB284G/PGB284GL PY-LA242/PYBLA242/ PYBLA242U/ S26361-F3629-L502/E2/E202	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L56 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L56 or later)	
			Direct/ via switch	PY-LA234 /PG-2871 S26361-F3611-L501	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L56 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L56 or later)	
			Direct/ via switch	PY-LA232/PYBLA232U PY-LA244/PYBLA244U S26361-F3740-L501/E701 S26361-F3739-L501/E701	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L56 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L56 or later)	
			Direct/ via switch	PY-LA252/PYBLA252/ PYBLA252L S26361-F3752-L502/E2/E502	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L56 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L56 or later)	
			Direct/ via switch	On board LAN	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L56 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L56 or later)	
		Red Hat Enterprise Linux 6 [2.6.32-431.el6] RHEL6.5 & KVM (Intel64)	Direct/ via switch	PG-2862/PG-2862I/ PY-LA222 S26361-F3610-L502	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L54 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L54 or later)	
			Direct/ via switch	PG-284G/PG-284GL /PG-2841G(L)/ PGB284G/PGB284GL PY-LA242/PYBLA242/ PYBLA242U/ S26361-F3629-L502/E2/E202	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L54 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L54 or later)	
			Direct/ via switch	PY-LA234 /PG-2871 S26361-F3611-L501	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L54 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L54 or later)	
			Direct/ via switch	PY-LA232/PYBLA232U PY-LA244/PYBLA244U S26361-F3740-L501/E701 S26361-F3739-L501/E701	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L54 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L54 or later)	
			Direct/ via switch	PY-LA252/PYBLA252/ PYBLA252L S26361-F3752-L502/E2/E502	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L54 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L54 or later)	
			Direct/ via switch	On board LAN	OS bundled	EMPD	PCL LifeKeeper8i24 / Z27	No	Supported (V20L14 or later)	Supported (V10L54 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L54 or later)	

Note 1 : Please contact server supplier about available NIC and CNA.

Linux	OS [Kernel]		Connection type	HBA	Driver version	Path Failover	Cluster system	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	RHEL 6 (x86, Intel64)	Red Hat Enterprise Linux 6 [2.6.32-358.el6] RHEL6.4 & KVM (Intel64)	Direct/ via switch	PG-2862/PG-28621/ PY-LA222 S26361-F3610-L502	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	
			Direct/ via switch	PG-284G/PG-284GL /PG-2841G(L)/ PGB284G/PGB284GL PY-LA242/PYBLA242/ PYBLA242L/ S26361-F3629-L502/E2/E202	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	
			Direct/ via switch	PY-LA234 /PG-2871 S26361-F3611-L501	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	
			Direct/ via switch	PY-LA232/PYBLA232U PY-LA244/PYBLA244U S26361-F3740-L501/E701 S26361-F3739-L501/E701	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	
			Direct/ via switch	PY-LA252/PYBLA252/ PYBLA252L S26361-F3752-L502/E2/E502	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L50 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L50 or later)	
			Direct/ via switch	On board LAN	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	
		Red Hat Enterprise Linux 6 [2.6.32-279.el6] RHEL6.3 & KVM (Intel64)	Direct/ via switch	PG-2862/PG-28621/ PY-LA222 S26361-F3610-L502	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L10 or later)	Supported (V10L30 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L10 or later)	Supported (V10L30 or later)	
			Direct/ via switch	PG-284G/PG-284GL /PG-2841G(L)/ PGB284G/PGB284GL PY-LA242/PYBLA242/ PYBLA242L/ S26361-F3629-L502/E2/E202	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L10 or later)	Supported (V10L30 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L10 or later)	Supported (V10L30 or later)	
			Direct/ via switch	PY-LA234 /PG-2871 S26361-F3611-L501	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	
			Direct/ via switch	PY-LA232/PYBLA232U PY-LA244/PYBLA244U S26361-F3740-L501/E701 S26361-F3739-L501/E701	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	
			Direct/ via switch	PY-LA252/PYBLA252/ PYBLA252L S26361-F3752-L502/E2/E502	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L50 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L50 or later)	
			Direct/ via switch	On board LAN	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	

Linux	OS [Kernel]		Connection type	HBA	Driver version	Path Failover	Cluster system	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	RHEL 6 (x86, Intel64)	Red Hat Enterprise Linux 6 [2.6.32-220.el6] RHEL6.2 & KVM (Intel64)	Direct/ via switch	PG-2862/PG-28621/ PY-LA222 S26361-F3610-L502	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L10 or later)	Supported (V10L22 or later)	Please apply errata (RHSA-2012:0052) provided from RedHat. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
						DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L10 or later)	Supported (V10L22 or later)	
			Direct/ via switch	PG-284G/PG-284GL /PG-2841G(L)/ PGB284G/PGB284GL PY-LA242/PYBLA242/ PYBLA242L/ S26361-F3629-L502/E2/E202	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L10 or later)	Supported (V10L22 or later)	Please apply errata (RHSA-2012:0052) provided from RedHat. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
						DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L10 or later)	Supported (V10L31 or later)	
			Direct / via switch	PY-LA234 /PG-2871 S26361-F3611-L501	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L10 or later)	Supported (V10L22 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
						DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L10 or later)	Supported (V10L22 or later)	
		Red Hat Enterprise Linux 6 [2.6.32-131.0.15.el6] RHEL 6.1 & KVM (Intel64)	Direct/ via switch	PG-288/PG-288L/ PG-289/PG-289L/ PG-2861/PG-2861L/ S26361-F3241-L201/ S26361-F3241-L201/ S26361-F3228-L1/ S26361-F3228-L201	OS bundled	EMPD (V2.0L22 or later)	-	No	Supported (V20L10 or later)	Supported (V10L16 or later)	Please apply the following patch iscsi-initiator-utils-6.2.0.872-21.el6 or later
					OS bundled	EMPD	PCL	No	Supported (V20L11 or later)	Supported (V10L19 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L16 or later)	
			Direct/ via switch	PG-2871/ S26361-F3611-L501/ PY-LA234	OS bundled	EMPD (V2.0L22 or later)	-	No	Supported (V20L10 or later)	Supported (V10L16 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L16 or later)	
			Direct/ via switch	PG-285	OS bundled	EMPD	PCL	No	Supported (V20L11 or later)	Supported (V10L19 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L11 or later)	Supported (V10L19 or later)	
			Direct/ via switch	PG-2862/PG-28621/ PY-LA222 S26361-F3610-L502	OS bundled	EMPD (V2.0L22 or later)	-	No	Supported (V20L10 or later)	Supported (V10L16 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L16 or later)	
			Direct/ via switch	PG-284G/ PY-LA242/ S26361-F3555-L501	OS bundled	EMPD (V2.0L22 or later)	-	No	Supported (V20L10 or later)	Supported (V10L22 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L22 or later)	
			Direct/ via switch	PG-LND201/ S26361-F3451-L1	OS bundled	EMPD	PCL	No	Planned 2	Planned 2	
					OS bundled	DeviceMapper	-	No	Planned 2	Planned 2	
			Direct/ via switch	PG-LND203/ S26361-F3331-L1	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
			Direct/ via switch	PG-LND204/ S26361-F3997-L1	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
			Direct/ via switch	On board LAN (1Gbps) of Tower/Rack mount model S4 or later & Blade server	OS bundled	EMPD	PCL	No	Planned 2	Planned 2	
					OS bundled	DeviceMapper	-	No	Planned 2	Planned 2	

Linux	OS [Kernel]		Connection type	HBA	Driver version	Path Failover	Cluster system	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	RHEL 6 (x86, Intel64)	Red Hat Enterprise Linux 6 [2.6.32-71.el6] RHEL6.0 & KVM (Intel64)	Direct/ via switch	PG-288/PG-288L/ PG-289/PG-289L/ PG-2861/PG-2861L/ S26361-F3241-L1/ S26361-F3241-L201/ S26361-F3228-L1/ S26361-F3228-L201	OS bundled	EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	N.A.	Please apply the following patch scsi-initiator-utils-6.2.0.872-21.el6 or later
					OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct/ via switch	PG-2871/ PY-LA234	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct/ via switch	PG-285	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct/ via switch	PG-2862/ PY-LA222	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct/ via switch	PG-284G/ PY-LA242/ S26361-F3555-L501	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct/ via switch	PG-LND201/ S26361-F3451-L1	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct/ via switch	PG-LND203/ S26361-F3331-L1	OS bundled	EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	N.A.	
					OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct/ via switch	PG-LND204/ S26361-F3997-L1	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct/ via switch	On board LAN (1Gbps) of Tower/Rack mount model S4 or later & Blade server	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	

Linux	OS [Kernel]		Connection type	HBA	Driver version	Path Failover	Cluster system	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	RHEL 5 (x86, Intel64)	Red Hat Enterprise Linux 5 [2.6.18-371.el5] RHEL5.10	Direct/ via switch	PG-2862/PG-28621/ PY-LA222 S26361-F3610-L502	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L10 or later)	Supported (V10L35 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
			Direct/ via switch	PG-LND204	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L10 or later)	Supported (V10L35 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
			Direct/ via switch	PG-284G/PG-284GL /PG-2841G(L)/ PGB284G/PGB284GL PY-LA242/PYBLA242/ PYBLA242L/ S26361-F3629-L502/E2/E202	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	
			Direct/ via switch	PY-LA234 /PG-2871 S26361-F3611-L501	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L10 or later)	Supported (V10L35 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
			Direct/ via switch	PY-LA232/PYBLA232U PY-LA244/PYBLA244U S26361-F3740-L501/E701 S26361-F3739-L501/E701	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	
			Direct/ via switch	PY-LA252/PYBLA252/ PYBLA252L S26361-F3752-L502/E2/E502	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L50 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L50 or later)	
			Direct/ via switch	On board LAN	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	
		Red Hat Enterprise Linux 5 [2.6.18-348.el5] RHEL5.9	Direct/ via switch	PG-2862/PG-28621/ PY-LA222 S26361-F3610-L502	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L10 or later)	Supported (V10L35 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
			Direct/ via switch	PG-LND204	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L10 or later)	Supported (V10L35 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
			Direct/ via switch	PG-284G/PG-284GL /PG-2841G(L)/ PGB284G/PGB284GL PY-LA242/PYBLA242/ PYBLA242L/ S26361-F3629-L502/E2/E202	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	
			Direct/ via switch	PY-LA234 /PG-2871 S26361-F3611-L501	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L10 or later)	Supported (V10L35 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
			Direct/ via switch	PY-LA232/PYBLA232U PY-LA244/PYBLA244U S26361-F3740-L501/E701 S26361-F3739-L501/E701	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	
			Direct/ via switch	PY-LA252/PYBLA252/ PYBLA252L S26361-F3752-L502/E2/E502	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L50 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L50 or later)	
			Direct/ via switch	On board LAN	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	

Linux	OS [Kernel]		Connection type	HBA	Driver version	Path Failover	Cluster system	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	RHEL5 (x86 & Intel64)	Red Hat Enterprise Linux 5 [2.6.18-308.el5] RHEL5.8	Direct/ via switch	PG-2862/PG-28621/ PY-LA222 S26361-F3610-L502	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L10 or later)	Supported (V10L22 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L10 or later)	Supported (V10L22 or later)	
			Direct/ via switch	PG-LND204	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L10 or later)	Supported (V10L22 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L10 or later)	Supported (V10L22 or later)	
			Direct/ via switch	PG-284G/PG-284GL /PG-2841G(L)/ PGB284G/PGB284GL PY-LA242/PYBLA242/ PYBLA242U S26361-F3629-L502/E2/E202	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	
			Direct / via switch	PY-LA234 /PG-2871 S26361-F3611-L501	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L10 or later)	Supported (V10L25 or later)	
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L10 or later)	Supported (V10L25 or later)	
			Direct/ via switch	PY-LA232/PYBLA232U PY-LA244/PYBLA244U S26361-F3740-L501/E701 S26361-F3739-L501/E701	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	
			Direct/ via switch	PY-LA252/PYBLA252/ PYBLA252L S26361-F3752-L502/E2/E502	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L50 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L50 or later)	
			Direct/ via switch	On board LAN	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	PCL LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	
		Red Hat Enterprise Linux 5 [2.6.18-274.el5] RHEL5.7	Direct/ via switch	S26361-F3228-L1/L201/ PG-2861/PG-2861L	OS bundled	EMPD	PCL LifeKeeper8.x	No	Supported (V20L11 or later)	Supported (V10L19 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
		Red Hat Enterprise Linux 5 [2.6.18-238.el5] RHEL5.6	Direct/ via switch	PG-288/PG-288L/ PG-289/PG-289L/ PG-2861/PG-2861L/ S26361-F3241-L1/ S26361-F3241-L201/ S26361-F3228-L1/ S26361-F3228-L201	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L47 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L47 or later)	
			Direct/ via switch	PY-LA234 /PG-2871 S26361-F3611-L501	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L47 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L47 or later)	
			Direct/ via switch	PG-285	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L47 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L47 or later)	
			Direct/ via switch	PG-2862/PG-28621/ PY-LA222 S26361-F3610-L502	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L47 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L47 or later)	
			Direct/ via switch	PG-284G/ PY-LA242/ S26361-F3555-L501	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L47 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L47 or later)	
			Direct/ via switch	PG-LND201/ S26361-F3451-L1	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L47 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L47 or later)	
			Direct/ via switch	PG-LND203/ S26361-F3331-L1	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L47 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L47 or later)	
			Direct/ via switch	PG-LND204/ S26361-F3997-L1	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L47 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L47 or later)	
			Direct/ via switch	On board LAN (1Gbps) of Tower/Rack mount model S4 or later & Blade server	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L47 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L47 or later)	

Linux	OS [Kernel]		Connection type	HBA	Driver version	Path Failover	Cluster system	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	RHEL5 (x86 & Intel64)	Red Hat Enterprise Linux 5 (for x86 & Intel64) [2.6.18-194.el5] RHEL5.5	Direct / via switch	PG-288/PG-288L/ PG-289/PG-289L/ PG-2861/PG-2861L/ S26361-F3241-L1/ S26361-F3241-L201/ S26361-F3228-L1/ S26361-F3228-L201	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L12 or later)	Please apply the following patch initscripts-8.45.30-3.el5_5.1 or later
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	PG-2871/ PY-LA234	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	PG-285	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	PG-2862/ PY-LA222	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	PG-284G/ PY-LA242/ S26361-F3555-L501	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	PG-LND201/PG-LND203/ S26361-F3451-L1/ S26361-F3331-L1	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	PG-LND204/ S26361-F3997-L1	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	On board LAN (1Gbps) of Tower/Rack mount model S4 or later & Blade server	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	On board LAN of BX620 S5, BX920 S1, BX922 S2	OS bundled	EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	
		Red Hat Enterprise Linux 5 (for x86 & Intel64) [2.6.18-128.el5] RHEL5.3	Direct / via switch	Intel PRO/1000 PT	OS bundled	DeviceMapper	-	Planned 2	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	Intel PRO/1000 MT	OS bundled		-	Planned 2	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	Broadcom 5708S	OS bundled		-	Planned 2	Supported (V20L10 or later)	Supported (V10L12 or later)	

Linux	OS [Kernel]		Connection type	HBA	Driver version	Path Failover	Cluster system	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	SLES12 (x64)	SUSE Linux Enterprise Server 12 for AMD64/Intel 64 GA/SP1 (including xen/KVM)	Direct / via switch	NIC for PRIMERGY (Software initiator)	OS bundled	EMPD	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
	SuSE11 (x86 & EM64T)	SUSE Linux Enterprise Server 11 (SP3/SP4) Xen	Direct / via switch	PG-288/PG-288L/PY-LA111/ PG-289/PG-289L/ PG-2861/PG-2861L/ PG-28611/PG-2861L1/ PG-2891/PG-289L1	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L60 or later)	
			Direct / via switch	PG-2871/PY-LA234	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L60 or later)	
			Direct / via switch	PG-285/PG-285L	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L60 or later)	
			Direct / via switch	PG-2862/PG-28621/PY-LA222	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L60 or later)	
			Direct / via switch	PG-284G/PG-2841G(L)	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L60 or later)	
			Direct / via switch	PG-LND201/PG-LND203	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L60 or later)	
			Direct / via switch	PG-LND204	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L60 or later)	
			Direct / via switch	On board LAN (1Gbps) of blade server or tower/rackmount S4 or later	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L60 or later)	
		SUSE Linux Enterprise Server 11 (SP2) Xen	Direct / via switch	PG-288/PG-288L/PY-LA111/ PG-289/PG-289L/ PG-2861/PG-2861L/ PG-28611/PG-2861L1/ PG-2891/PG-289L1	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	Please apply the following patches when using DeviceMapper. (for x86 version) - kpartx-0.4.9-0.66.1.i586.rpm or later - multipath-tools-0.4.9-0.66.1.i586.rpm or later (for EM64T version) - kpartx-0.4.9-0.66.1.x86_64.rpm or later - multipath-tools-0.4.9-0.66.1.x86_64.rpm or later
			Direct / via switch	PG-2871/PY-LA234	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	
			Direct / via switch	PG-285/PG-285L	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	
			Direct / via switch	PG-2862/PG-28621/PY-LA222	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	
			Direct / via switch	PG-284G/PG-2841G(L)	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	
			Direct / via switch	PG-LND201/PG-LND203	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	
			Direct / via switch	PG-LND204	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	
			Direct / via switch	On board LAN (1Gbps) of blade server or tower/rackmount S4 or later	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	
		SUSE Linux Enterprise Server 11 (SP1) Xen	Direct / via switch	PG-288/PG-288L/ PG-289/PG-289L/ PG-2861/PG-2861L/ S26361-F3241-L1/ S26361-F3241-L201/ S26361-F3228-L1/ S26361-F3228-L201	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	PG-2871/ PY-LA234	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	PG-285	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	PG-2862/ PY-LA222	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	PG-284G/ PY-LA242/ S26361-F3555-L501	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	PG-LND201/PG-LND203/ S26361-F3451-L1/ S26361-F3331-L1	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	PG-LND204/ S26361-F3997-L1	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	On board LAN (1Gbps) of Tower/Rack mount model S4 or later & Blade server	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	

Linux	OS [Kernel]		Connection type	HBA	Driver version	Path Failover	Cluster system	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	SuSE10 (x86 & EM64T)	SUSE Linux Enterprise Server 10 (SP 4)	Direct / via switch	PG-288/PG-288L/ PG-289/PG-289L/ PY-LA111/ PG-2861/PG-2861L/ S26361-F3241-L1/ S26361-F3241-L201/ S26361-F3228-L1/ S26361-F3228-L201	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
			Direct / via switch	PG-2862/PG-28621/ PY-LA222	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
			Direct / via switch	PG-2871/ PY-LA234	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
		SUSE Linux Enterprise Server 10 (SP3) Xen	Direct / via switch	PG-288/PG-288L/ PG-289/PG-289L/ PG-2861/PG-2861L/ S26361-F3241-L1/ S26361-F3241-L201/ S26361-F3228-L1/ S26361-F3228-L201	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	PG-2871/ PY-LA234	2.2.9	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	PG-285	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	PG-2862/ PY-LA222	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	PG-284G/ PY-LA242/ S26361-F3555-L501	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	PG-LND201/PG-LND203/ S26361-F3451-L1/ S26361-F3331-L1	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	PG-LND204/ S26361-F3997-L1	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	On board LAN (1Gbps) of Tower/Rack mount model S4 or later & Blade server	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
		SUSE Linux Enterprise Server 10 (SP2)	Direct / via switch	Intel PRO/1000 PT	OS bundled	DeviceMapper	-	Planned 2	Supported (V20L10 or later)	Planned 2	Please apply the following patches kernel-smp-2.6.16-60-0.42.5.x86_64.rpm multipath-tools-0.4.7-34.47.2.x86_64.rpm open-iscsi-2.0.707-0.47.x86_64.rpm
			Direct / via switch	Intel PRO/1000 MT	OS bundled		-	Planned 2	Supported (V20L10 or later)	Planned 2	
			Direct / via switch	Broadcom 5708S	OS bundled		-	Planned 2	Supported (V20L10 or later)	Planned 2	

Linux	OS [Kernel]		Connection type	HBA	Driver version	Path Failover	Cluster system	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
Other Companies' Servers	RHEL7 (Intel64)	Red Hat Enterprise Linux 7 [3.10.0-514] RHEL7.3 & KVM	Direct/ via switch	Intel NIC and CNA Note 1	OS bundled	EMPD	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
		Red Hat Enterprise Linux 7 [3.10.0-327] (for Intel64) RHEL 7.2 &KVM [3.10.0-229] (for Intel64) RHEL 7.1 &KVM	Direct/ via switch	Intel Gigabit ET/ET2/EF	OS bundled	EMPD*1	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
					OS bundled	Devicemapper	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct/ via switch	Intel Ethernet X520	OS bundled	EMPD*1	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
					OS bundled	Devicemapper	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct/ via switch	Intel Ethernet X540	OS bundled	EMPD*1	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
					OS bundled	Devicemapper	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
		Red Hat Enterprise Linux 7 [3.10.0-123] (for Intel64) RHEL 7.0 &KVM	Direct/ via switch	Intel Gigabit ET/ET2/EF	OS bundled	EMPD*1	-	No	Supported (V20L14 or later)	Supported (V10L55 or later)	
					OS bundled	Devicemapper	-	No	Supported (V20L14 or later)	Supported (V10L55 or later)	
			Direct/ via switch	Intel Ethernet X520	OS bundled	EMPD*1	-	No	Supported (V20L14 or later)	Supported (V10L55 or later)	
					OS bundled	Devicemapper	-	No	Supported (V20L14 or later)	Supported (V10L55 or later)	
			Direct/ via switch	Intel Ethernet X540	OS bundled	EMPD*1	-	No	Supported (V20L14 or later)	Supported (V10L55 or later)	
					OS bundled	Devicemapper	-	No	Supported (V20L14 or later)	Supported (V10L55 or later)	

Note 1 : Please contact server supplier about available NIC and CNA.

Linux	OS [Kernel]		Connection type	HBA	Driver version	Path Failover	Cluster system	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
Other Companies' Servers	RHEL6 (x86 & Intel64)	Red Hat Enterprise Linux 6 [2.6.32-642.el6] RHEL6.8 & KVM(Intel64)	Direct/ via switch	Intel NIC and CNA Note 1	OS bundled	EMPD	LifeKeeper8.x	No	Supported (V20L14 or later)	Supported (V10L60 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L27 or later.
					OS bundled	DeviceMapper	LifeKeeper8.x	No	Planned 2	Planned 2	
		Red Hat Enterprise Linux 6 RHEL6.7 & KVM (Intel64)	Direct/ via switch	Intel Gigabit ET/ET2/EF	OS bundled	EMPD	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L60 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
						DeviceMapper	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct/ via switch	Intel Ethernet X520	OS bundled	EMPD	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L60 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
						DeviceMapper	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct/ via switch	Intel Ethernet X540	OS bundled	EMPD	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L60 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
						DeviceMapper	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
		Red Hat Enterprise Linux 6 RHEL6.6 & KVM (Intel64)	Direct/ via switch	Intel Gigabit ET/ET2/EF	OS bundled	EMPD	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L56 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
						DeviceMapper	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L56 or later)	
			Direct/ via switch	Intel Ethernet X520	OS bundled	EMPD	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L56 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
						DeviceMapper	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L56 or later)	
			Direct/ via switch	Intel Ethernet X540	OS bundled	EMPD	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L56 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
						DeviceMapper	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L56 or later)	
		Red Hat Enterprise Linux 6 RHEL6.5 & KVM (Intel64)	Direct/ via switch	Intel Gigabit ET/ET2/EF	OS bundled	EMPD	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L54 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
						DeviceMapper	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L54 or later)	
			Direct/ via switch	Intel Ethernet X520	OS bundled	EMPD	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L54 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
						DeviceMapper	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L54 or later)	
			Direct/ via switch	Intel Ethernet X540	OS bundled	EMPD	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L54 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
						DeviceMapper	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L54 or later)	
		Red Hat Enterprise Linux 6 RHEL6.4 & KVM (Intel64)	Direct/ via switch	Intel Gigabit ET/ET2/EF	OS bundled	EMPD	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
						DeviceMapper	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	
			Direct/ via switch	Intel Ethernet X520	OS bundled	EMPD	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
						DeviceMapper	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L47 or later)	
			Direct/ via switch	Intel Ethernet X540	OS bundled	EMPD	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L50 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
						DeviceMapper	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L50 or later)	
		Red Hat Enterprise Linux 6 [2.6.32-279.el6] RHEL6.3 & KVM (Intel64)	Direct/ via switch	Intel PRO/1000 PT/ Intel PRO/1000 PF	OS bundled	EMPD	LifeKeeper 8.x	No	Supported (V20L10 or later)	Supported (V10L30 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
						DeviceMapper	LifeKeeper 8.x	No	Supported (V20L10 or later)	Supported (V10L30 or later)	
			Direct/ via switch	Intel Ethernet X520	OS bundled	EMPD	LifeKeeper 8.x	No	Supported (V20L10 or later)	Supported (V10L30 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
						DeviceMapper	LifeKeeper 8.x	No	Supported (V20L10 or later)	Supported (V10L30 or later)	
			Direct/ via switch	Intel Ethernet X540	OS bundled	EMPD	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L50 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
						DeviceMapper	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L50 or later)	

Note 1 : Please contact server supplier about available NIC and CNA.

Linux	OS [Kernel]		Connection type	HBA	Driver version	Path Failover	Cluster system	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
Other Companies' Servers	RHEL6 (x86 & Intel64)	Red Hat Enterprise Linux 6 RHEL6.2 & KVM (Intel64)	Direct / via switch	Intel PRO/1000 PT/ Intel PRO/1000 PF	OS bundled	EMPD	LifeKeeper 8.x	No	Supported (V20L10 or later)	Supported (V10L22 or later)	Please apply errata (RHSA-2012:0052) provided from Red-Hat. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
						DeviceMapper	LifeKeeper 8.x	NO	Supported (V20L10 or later)	Supported (V10L31 or later)	Please apply errata (RHSA-2012:0052) provided from Red-Hat.
			Direct / via switch	Intel Ethernet X520	OS bundled	EMPD	LifeKeeper 8.x	No	Supported (V20L10 or later)	Supported (V10L22 or later)	Please apply errata (RHSA-2012:0052) provided from Red-Hat. When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
						DeviceMapper	LifeKeeper 8.x	No	Supported (V20L10 or later)	Supported (V10L31 or later)	Please apply errata (RHSA-2012:0052) provided from Red-Hat.
		Red Hat Enterprise Linux 6 [2.6.32-131.0.15.el6] RHEL6.1 & KVM (Intel64)	Direct / via switch	Intel PRO/1000 PT/ Intel PRO/1000 PF	OS bundled	EMPD (V2.0L22 or later)	-	No	Supported (V20L10 or later)	Supported (V10L16 or later)	
						DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L16 or later)	
			Direct / via switch	Intel Gigabit ET/ET2/EF	OS bundled	EMPD (V2.0L22 or later)	-	No	Supported (V20L10 or later)	Supported (V10L16 or later)	
						DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L16 or later)	
					OS bundled	EMPD (V2.0L22 or later)	EXPRESSCLUSTER X3.1	No	Supported (V20L10 or later)	Supported (V10L22 or later)	
					OS bundled	DeviceMapper	EXPRESSCLUSTER X3.1	No	Supported (V20L10 or later)	Supported (V10L22 or later)	
		Red Hat Enterprise Linux 6 [2.6.32-71.el6] RHEL6.0 & KVM (Intel64)	Direct / via switch	Intel82572GM/ Intel 82571GB	OS bundled	EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	N.A.	Please apply the following patch iscsi-initiator-utils-6.2.0.872-21.el6 or later
			Direct / via switch	Intel 82575EB	OS bundled	EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	N.A.	
			Direct / via switch	Intel PRO/1000 PT	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	DeviceMapper		No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	Intel Gigabit ET/ET2/EF	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	Broadcom 5708S	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	DeviceMapper		No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	Intel 10 Gigabit XF	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	Intel Ethernet X520	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	DeviceMapper		No	Supported (V20L10 or later)	Supported (V10L12 or later)	

Linux	OS [Kernel]		Connection type	HBA	Driver version	Path Failover	Cluster system	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
Other Companies' Servers	RHEL5 (x86 & Intel64)	Red Hat Enterprise Linux 5 [2.6.18-371.el5] RHEL5.10	Direct/ via switch	Intel Ethernet X520	OS bundled	EMPD	LifeKeeper 8.x	No	Supported (V20L10 or later)	Supported (V10L35 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	LifeKeeper 8.x	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
			Direct/ via switch	Intel Ethernet X540	OS bundled	EMPD	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L50 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
						DeviceMapper	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L50 or later)	
		Red Hat Enterprise Linux 5 [2.6.18-348.el5] RHEL5.9	Direct/ via switch	Intel Ethernet X520	OS bundled	EMPD	LifeKeeper 8.x	No	Supported (V20L10 or later)	Supported (V10L35 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	LifeKeeper 8.x	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
			Direct/ via switch	Intel Ethernet X540	OS bundled	EMPD	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L50 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
						DeviceMapper	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L50 or later)	
		Red Hat Enterprise Linux 5 [2.6.18-308.el5] RHEL5.8	Direct/ via switch	Intel Ethernet X520	OS bundled	EMPD	LifeKeeper 8.x	No	Supported (V20L10 or later)	Supported (V10L22 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
					OS bundled	DeviceMapper	LifeKeeper 8.x	No	Supported (V20L10 or later)	Supported (V10L22 or later)	
			Direct/ via switch	Intel Ethernet X540	OS bundled	EMPD	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L50 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
						DeviceMapper	LifeKeeper 8.x	No	Supported (V20L14 or later)	Supported (V10L50 or later)	
		Red Hat Enterprise Linux 5 [2.6.18-274.el5] RHEL5.7 & Xen	Direct / via switch	Intel PRO/1000 PT/ Intel PRO/1000 PF	OS bundled	EMPD	LifeKeeper 8.x	No	Supported (V20L11 or later)	Supported (V10L19 or later)	When using both EMPD and LifeKeeper, EMPD should be V2.0L24 or later.
		Red Hat Enterprise Linux 5 [2.6.18-238.el5] RHEL5.6 & Xen	Direct / via switch	Intel82572G/ Intel 82571GB	OS bundled	EMPD (V2.0L21 or later)	-	Yes	Supported (V20L10 or later)	N.A.	
			Direct / via switch	Intel 82575EB	OS bundled	EMPD (V2.0L21 or later)	-	Yes	Supported (V20L10 or later)	N.A.	
			Direct / via switch	Intel PRO/1000 PT	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	DeviceMapper		No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	Intel Gigabit ET/ET2/EF	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	Broadcom 5708S	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	DeviceMapper		No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	Intel 10 Gigabit XF	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	Intel Ethernet X520	OS bundled	EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	DeviceMapper		No	Supported (V20L10 or later)	Supported (V10L12 or later)	
		Red Hat Enterprise Linux 5 [2.6.18-194.el5] RHEL5.5 & Xen	Direct / via switch	Intel PRO/1000 PT	OS bundled	EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	DeviceMapper		No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	Intel Gigabit ET/ET2/EF	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	Broadcom 5708S	OS bundled	EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	DeviceMapper		No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	Intel 10 Gigabit XF	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	Intel Ethernet X520	OS bundled	EMPD	-	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	
					OS bundled	DeviceMapper		No	Supported (V20L10 or later)	Supported (V10L12 or later)	

Linux	OS [Kernel]		Connection type	HBA	Driver version	Path Failover	Cluster system	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
Other Companies' Servers	RHEL5 (x86 & Intel64)	Red Hat Enterprise Linux 5 [2.6.18-194.el5] RHEL5.5	Direct / via switch	Intel PRO/1000 PT	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Planned 2	
						EMPD	-	No	Supported (V20L10 or later)	Planned 2	
		Red Hat Enterprise Linux 5 [2.6.18-128.el5] RHEL5.3	Direct / via switch	Intel PRO/1000 PT	OS bundled	DeviceMapper	-	Planned 2	Supported (V20L10 or later)	Planned 2	
			Direct / via switch	Intel PRO/1000 MT	OS bundled		-	Planned 2	Supported (V20L10 or later)	Planned 2	
	SLES12 (x64)	SUSE Linux Enterprise Server 12 for AMD64/Intel 64 GA/SP1 (including xen/KVM)	Direct / via switch	Intel NIC (Software initiator)	OS bundled	EMPD	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
					OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
	SUSE11 (x86 & EM64T)	SuSE Linux Enterprise Server 11 (SP3/SP4) & Xen	Direct / via switch	Intel PRO/1000 PT	OS bundled	EMPD (V2.0L27 or later)	-	No	Supported (V20L10 or later)	Supported (V10L60 or later)	
			Direct / via switch	Intel PRO/1000 PT	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L60 or later)	
			Direct / via switch	Intel Gigabit ET/ET2/EF	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L60 or later)	
			Direct / via switch	Broadcom 5708S	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L60 or later)	
			Direct / via switch	Intel 10 Gigabit XF	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L60 or later)	
			Direct / via switch	Intel Ethernet X520	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L60 or later)	
		SuSE Linux Enterprise Server 11 (SP2) & Xen	Direct / via switch	Intel PRO/1000 PT	OS bundled	EMPD (V2.0L23 or later)	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	Please apply the following patches when using DeviceMapper. (for x86 version) - kpartx-0.4.9-0.66.1.i586.rpm or later - multipath-tools-0.4.9-0.66.1.i586.rpm or later (for EM64T version) - kpartx-0.4.9-0.66.1.x86_64.rpm or later - multipath-tools-0.4.9-0.66.1.x86_64.rpm or later
			Direct / via switch	Intel PRO/1000 PT	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	
			Direct / via switch	Intel Gigabit ET/ET2/EF	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	
			Direct / via switch	Broadcom 5708S	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	
			Direct / via switch	Intel 10 Gigabit XF	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	
			Direct / via switch	Intel Ethernet X520	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	
		SuSE Linux Enterprise Server 11 (SP1) & Xen	Direct / via switch	Intel PRO/1000 PT	OS bundled	EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	Intel PRO/1000 PT	OS bundled	DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	Intel Gigabit ET/ET2/EF	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	Broadcom 5708S	OS bundled	DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	Intel 10 Gigabit XF	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	Intel Ethernet X520	OS bundled	DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	
	SUSE10 (x86 & EM64T)	SUSE Linux Enterprise Server 10 (SP 4)	Direct / via switch	Intel PRO/1000 PT/ Intel PRO/1000 PF	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
		SuSE Linux Enterprise Server 10 (SP3) & Xen	Direct / via switch	Intel PRO/1000 PT	OS bundled	DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	Intel Gigabit ET/ET2/EF	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	Broadcom 5708S	OS bundled	DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	Intel 10 Gigabit XF	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			Direct / via switch	Intel Ethernet X520	OS bundled	DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L12 or later)	
		SUSE Linux Enterprise Server 10 (SP2)	Direct / via switch	Intel PRO/1000 PT	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Planned 2	Please apply the following patches kernel-smp-2.6.16.60-0.42.5.x86_64.rpm multipath-tools-0.4.7-34.47.2.x86_64.rpm open-iscsi-2.0.707-0.47.x86_64.rpm
			Direct / via switch	Intel PRO/1000 MT	OS bundled		-	No	Supported (V20L10 or later)	Planned 2	

Notes

- For each Operating System, Path Failover software, Cluster System software, please apply necessary patches which are suggested by the product suppliers.
- If multipath configuration is supported, then single path configuration is also supported. But multipath configuration may be mandatory because of cluster requirement.

SAS connection

Linux	OS [Kernel]		Connected Type	Bus	HBA				Path Failover	Cluster system	Boot	Model		Instruction for use
					model name	BIOS version	Firmware version	Driver version				DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	RHEL 7 (Intel64)	Red Hat Enterprise Linux 7 (for Intel64) [3.10.0-514] RHEL7.3 & KVM	Direct	PCI-Express	PG-22DC/PG-22DCL/ PY-SC220 S26361-F3628-L501	Note 1	Note 1	Note 1	EMPD	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
						Note 1	Note 1	Note 1	DeviceMapper	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct	PCI-Express	PY-SC3FE S26361-F3845-L501	Note 1	Note 1	Note 1	EMPD	-	No	N.A.	Supported (V10L60 or later)	
						Note 1	Note 1	Note 1	DeviceMapper	-	No	N.A.	Supported (V10L60 or later)	
		Red Hat Enterprise Linux 7 (for Intel64) RHEL 7.2 & KVM	Direct	PCI-Express	PG-22DC/PG-22DCL/ PY-SC220 S26361-F3628-L501	Note 1	Note 1	Note 1	EMPD	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
						Note 1	Note 1	Note 1	DeviceMapper	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct	PCI-Express	PG-228B/PG-228BL/ PY-SC1Y0 S26361-F3271-L1	Note 1	Note 1	Note 1	EMPD	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
						Note 1	Note 1	Note 1	DeviceMapper	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct	PCI-Express	PY-SC3FE S26361-F3845-L501	Note 1	Note 1	Note 1	EMPD	-	No	N.A.	Supported (V10L60 or later)	
						Note 1	Note 1	Note 1	DeviceMapper	-	No	N.A.	Supported (V10L60 or later)	
		Red Hat Enterprise Linux 7 (for Intel64) RHEL 7.1 & KVM	Direct	PCI-Express	PG-22DC/PG-22DCL/ PY-SC220 S26361-F3628-L501	Note 1	Note 1	Note 1	EMPD	PCL	No	Supported (V20L14 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
						Note 1	Note 1	Note 1	DeviceMapper	PCL	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct	PCI-Express	PG-228B/PG-228BL/ PY-SC1Y0 S26361-F3271-L1	Note 1	Note 1	Note 1	EMPD	PCL	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
						Note 1	Note 1	Note 1	DeviceMapper	PCL	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct	PCI-Express	PY-SC3FE S26361-F3845-L501	Note 1	Note 1	Note 1	EMPD	PCL	No	N.A.	Supported (V10L60 or later)	
						Note 1	Note 1	Note 1	DeviceMapper	PCL	No	N.A.	Supported (V10L60 or later)	
		Red Hat Enterprise Linux 7 (for Intel64) RHEL 7.0 & KVM	Direct	PCI-Express	PG-22DC/PG-22DCL/ PY-SC220 S26361-F3628-L501	Note 1	Note 1	Note 1	EMPD	PCL	No	Supported (V20L14 or later)	Supported (V10L55 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
						Note 1	Note 1	Note 1	DeviceMapper	PCL	No	Supported (V20L14 or later)	Supported (V10L55 or later)	
			Direct	PCI-Express	PG-228B/PG-228BL/ PY-SC1Y0 S26361-F3271-L1	Note 1	Note 1	Note 1	EMPD	PCL	No	Supported (V20L14 or later)	Supported (V10L55 or later)	
						Note 1	Note 1	Note 1	DeviceMapper	PCL	No	Supported (V20L14 or later)	Supported (V10L55 or later)	
			Direct	PCI-Express	PY-SC3FE S26361-F3845-L501	Note 1	Note 1	Note 1	EMPD	PCL	No	N.A.	Supported (V10L60 or later)	
						Note 1	Note 1	Note 1	DeviceMapper	PCL	No	N.A.	Supported (V10L60 or later)	

Linux	OS [Kernel]		Connected Type	Bus	HBA				Path Failover	Cluster system	Boot	Model		Instruction for use
					model name	BIOS version	Firmware version	Driver version				DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	RHEL 6 (x86 & Intel®64)	Red Hat Enterprise Linux 6 [2.6.32-573.el6] RHEL6.7 & KVM	Direct	PCI-Express	PG-22DC/PG-22DCL/ PY-SC220 S26361-F3628-L501	Note 1	Note 1	Note 1	EMPD	PCL	No	Supported (V20L14 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Direct	PCI-Express	PG-228B/PG-228BL/ PY-SC1Y0 S26361-F3271-L1	Note 1	Note 1	Note 1	EMPD	PCL	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct	PCI-Express	PY-SC3FE S26361-F3845-L501	Note 1	Note 1	Note 1	EMPD	PCL	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
						Note 1	Note 1	Note 1	DeviceMapper	PCL	No	N.A.	Supported (V10L60 or later)	
		Red Hat Enterprise Linux 6 [2.6.32-504.el6] RHEL6.6 & KVM	Direct	PCI-Express	PG-22DC/PG-22DCL/ PY-SC220 S26361-F3628-L501	7.19.00.00	10.00.00.00-IT	OS bundled	EMPD	PCL	No	Supported (V20L14 or later)	Supported (V10L56 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Direct	PCI-Express	PG-228B/PG-228BL/ PY-SC1Y0 S26361-F3271-L1	6.30.00.00	1.30.41.00- I T	OS bundled	DeviceMapper	PCL	No	Supported (V20L14 or later)	Supported (V10L56 or later)	
			Direct	PCI-Express	PY-SC3FE S26361-F3845-L501	Note 1	Note 1	Note 1	EMPD	PCL	No	Supported (V20L14 or later)	Supported (V10L56 or later)	
						Note 1	Note 1	Note 1	DeviceMapper	PCL	No	Supported (V20L14 or later)	Supported (V10L56 or later)	
		Red Hat Enterprise Linux 6 [2.6.32-431.el6] RHEL6.5 & KVM	Direct	PCI-Express	PG-22DC/PG-22DCL/ PY-SC220 S26361-F3628-L501	7.19.00.00	10.00.00.00-IT	OS bundled	EMPD	PCL	No	Supported (V20L14 or later)	Supported (V10L54 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Direct	PCI-Express	PG-228B/PG-228BL/ PY-SC1Y0 S26361-F3271-L1	6.30.00.00	1.30.41.00- I T	OS bundled	DeviceMapper	PCL	No	Supported (V20L14 or later)	Supported (V10L54 or later)	
			Direct	PCI-Express	PY-SC3FE S26361-F3845-L501	Note 1	Note 1	Note 1	EMPD	PCL	No	Supported (V20L14 or later)	Supported (V10L54 or later)	
						Note 1	Note 1	Note 1	DeviceMapper	PCL	No	Supported (V20L14 or later)	Supported (V10L54 or later)	
		Red Hat Enterprise Linux 6 [2.6.32-358.el6] RHEL6.4 & KVM	Direct	PCI-Express	PG-22DC/PG-22DCL/ PY-SC220 S26361-F3628-L501	7.19.00.00	10.00.00.00-IT	OS bundled	EMPD	PCL	No	Supported (V20L14 or later)	Supported (V10L47 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Direct	PCI-Express	PG-228B/PG-228BL/ PY-SC1Y0 S26361-F3271-L1	6.30.00.00	1.30.41.00- I T	OS bundled	DeviceMapper	PCL	No	Supported (V20L14 or later)	Supported (V10L47 or later)	
			Direct	PCI-Express	PY-SC3FE S26361-F3845-L501	Note 1	Note 1	Note 1	EMPD	PCL	No	Supported (V20L14 or later)	Supported (V10L47 or later)	
						Note 1	Note 1	Note 1	DeviceMapper	PCL	No	Supported (V20L14 or later)	Supported (V10L47 or later)	
		Red Hat Enterprise Linux 6 [2.6.32-279.el6] RHEL6.3 & KVM	Direct	PCI-Express	PG-22DC/PG-22DCL/ PY-SC220 S26361-F3628-L501	7.07.00.00	5.00.13.00-IT	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L25 or later)	
			Direct	PCI-Express	PG-228B/PG-228BL/ PY-SC1Y0 S26361-F3271-L1	6.30.00.00	1.30.41.00- I T	OS bundled	DeviceMapper	PCL	No	Supported (V20L10 or later)	Supported (V10L25 or later)	
		Red Hat Enterprise Linux 6 [2.6.32-220.el6] RHEL6.2 & KVM	Direct	PCI-Express	PG-22DC/PG-22DCL/ PY-SC220 S26361-F3628-L501	7.07.00.00	5.00.13.00-IT	OS bundled	EMPD	PCL	No	Supported (V10L66 or later)	Supported (V10L25 or later)	
					PG-228B/PG-228BL/ PY-SC1Y0 S26361-F3271-L1	6.30.00.00	1.30.41.00— I T	OS bundled	DeviceMapper	-	No	Supported (V10L66 or later)	Supported (V10L25 or later)	
			Direct	PCI-Express	PG-22DC/PG-22DCL/ PY-SC220 S26361-F3628-L501	7.07.00.00	5.00.13.00-IT	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	
					PG-228B/PG-228BL/ PY-SC1Y0 S26361-F3271-L1	6.30.00.00	1.30.41.00-IT	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	
		Red Hat Enterprise Linux 6 [2.6.32-131.0.15.el6] RHEL6.1 & KVM	Direct	PCI-Express	PG-22DC/PG-22DCL/ PY-SC220 S26361-F3628-L501	7.07.00.00	5.00.13.00-IT	OS bundled	EMPD	-	No	Supported (V2.0L22 or later)	Supported (V10L16 or later)	
			Direct	PCI-Express	PG-228B/PG-228BL/ S26361-F3271-L1J/ S26361-F3271-L201	6.30.00.00	1.30.41.00-IT	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L16 or later)	
						6.30.00.00	1.30.41.00-IT	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L16 or later)	
			Direct	PCI-Express	PG-22DC/PG-22DCL	7.07.00.00	5.00.13.00-IT	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L16 or later)	
		Red Hat Enterprise Linux 6 [2.6.32-71.el6] RHEL6.0 & KVM	Direct	PCI-Express	PG-228B/PG-228BL/ S26361-F3271-L1/ S26361-F3271-L201	6.30.00.00	1.30.40.00-IT	OS bundled	EMPD	-	No	Supported (V20L10 or later)	N.A.	Host Affinity function can not be used. Please disable Host Affinity function.
			Direct			6.30.00.00	1.30.41.00-IT	OS bundled	DeviceMapper	PCL	No	Planned 2	Supported (V10L11 or later)	
			Direct	PCI-Express	PG-22DC/PG-22DCL	6.30.00.00	1.30.41.00-IT	OS bundled	DeviceMapper	PCL	No	Planned 2	Supported (V10L11 or later)	
			Direct			7.07.00.00	5.00.13.00-IT	OS bundled	DeviceMapper	PCL	No	N.A.	Supported (V10L11 or later)	

Linux	OS [Kernel]		Connected Type	Bus	HBA				Path Failover	Cluster system	Boot	Model		Instruction for use
					model name	BIOS version	Firmware version	Driver version				DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	RHEL 5 (x86 & Intel64)	Red Hat Enterprise Linux 5 [2.6.18-308.el5] RHEL5.11	Direct	PCI-Express	PY-SC3FE S26361-F3845-L501	Note 1	Note 1	Note 1	EMPD	PCL	No	N.A.	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
						Note 1	Note 1	Note 1	DeviceMapper	PCL	No	N.A.	Supported (V10L60 or later)	
		Red Hat Enterprise Linux 5 [2.6.18-371.el5] RHEL5.10	Direct	PCI-Express	PG-22DC/PG-22DCL/ PY-SC220 S26361-F3628-L501	7.07.00.00	5.00.13.00-IT	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
									DeviceMapper	PCL	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
			Direct	PCI-Express	PG-228B/PG-228BL/ PY-SC1Y0/ S26361-F3271-L1/ S26361-F3271-L201	6.30.00.00	1.30.41.00-IT	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
									DeviceMapper	PCL	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
			Direct	PCI-Express	PY-SC3FE S26361-F3845-L501	Note 1	Note 1	Note 1	EMPD	PCL	No	N.A.	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
						Note 1	Note 1	Note 1	DeviceMapper	PCL	No	N.A.	Supported (V10L60 or later)	
		Red Hat Enterprise Linux 5 [2.6.18-348.el5] RHEL5.9	Direct	PCI-Express	PG-22DC/PG-22DCL/ PY-SC220 S26361-F3628-L501	7.07.00.00	5.00.13.00-IT	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
									DeviceMapper	PCL	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
			Direct	PCI-Express	PG-228B/PG-228BL/ PY-SC1Y0/ S26361-F3271-L1/ S26361-F3271-L201	6.30.00.00	1.30.41.00-IT	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
									DeviceMapper	PCL	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
			Direct	PCI-Express	PY-SC3FE S26361-F3845-L501	Note 1	Note 1	Note 1	EMPD	PCL	No	N.A.	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
						Note 1	Note 1	Note 1	DeviceMapper	PCL	No	N.A.	Supported (V10L60 or later)	
		Red Hat Enterprise Linux 5 [2.6.18-308.el5] RHEL5.8	Direct	PCI-Express	PG-22DC/PG-22DCL/ PY-SC220 S26361-F3628-L501	7.07.00.00	5.00.13.00-IT	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
									DeviceMapper	PCL	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
			Direct	PCI-Express	PG-228B/PG-228BL/ PY-SC1Y0/ S26361-F3271-L1/ S26361-F3271-L201	6.30.00.00	1.30.41.00-IT	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
									DeviceMapper	PCL	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
		Red Hat Enterprise Linux 5 [2.6.18-274.el5] RHEL5.7 & Xen	Direct	PCI-Express	PG-22DC/PG-22DCL/ PY-SC220 S26361-F3628-L501	7.07.00.00	5.00.13.00-IT	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
									DeviceMapper	PCL	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
			Direct	PCI-Express	PG-228B/PG-228BL/ PY-SC1Y0/ S26361-F3271-L1/ S26361-F3271-L201	6.30.00.00	1.30.41.00-IT	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
									DeviceMapper	PCL	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
		Red Hat Enterprise Linux 5 [2.6.18-238.el5] RHEL5.6 & Xen	Direct	PCI-Express	PG-228B/PG-228BL/ S26361-F3271-L1/ S26361-F3271-L201	6.30.00.00	1.30.41.00-IT	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
			Direct						DeviceMapper	PCL	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
			Direct	PCI-Express	PG-22DC/PG-22DCL	7.07.00.00	5.00.13.00-IT	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
			Direct						DeviceMapper	PCL	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
		Red Hat Enterprise Linux 5 [2.6.18-194.el5] RHEL5.5 & Xen	Direct	PCI-Express	PG-228B/PG-228BL/ S26361-F3271-L1/ S26361-F3271-L201	6.30.00.00	1.30.41.00-IT	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
			Direct						DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
			Direct	PCI-Express	PG-22DC/PG-22DCL	7.07.00.00	5.00.13.00-IT	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
			Direct						DeviceMapper	PCL	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
		Red Hat Enterprise Linux 5 [2.6.18-164.el5] RHEL5.4	Direct	PCI-Express	PG-228B/PG-228BL/ S26361-F3271-L1/ S26361-F3271-L201	6.26.00.00	1.27.41.00-IT	OS bundled	EMPD	-	No	Supported (V20L10 or later)	-	
			Direct			6.30.00.00	1.30.41.00-IT			PCL		Planned 2	Supported (V10L11 or later)	
			Direct	PCI-Express	PG-22DC/PG-22DCL	7.07.00.00	5.00.13.00-IT	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
			Direct						DeviceMapper	PCL	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
		Red Hat Enterprise Linux 5 [2.6.18-128.el5] RHEL5.3	Direct	PCI-Express	PG-228B/PG-228BL/ S26361-F3271-L1/ S26361-F3271-L201	6.26.00.00	1.27.41.00-IT	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	-	Host Affinity function can not be used. Please disable Host Affinity function.
						6.30.00.00						Supported (V20L10 or later)	-	
						6.30.00.00	1.30.41.00-IT					Supported (V20L10 or later)	Supported (V10L11 or later)	

Linux	OS [Kernel]		Connected Type	Bus	HBA				Path Failover	Cluster system	Boot	Model		Instruction for use
					model name	BIOS version	Firmware version	Driver version				DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	RHEL 4 (x86 & EM64T)	Red Hat Enterprise Linux AS/ES (v.4 for x86 & EM64T) [2.6.9-100.EL] RHEL4.9	Direct	PCI-Express	PG-228B/PG-228BL/ S26361-F3271-L1/ S26361-F3271-L201	6.30.00.00	1.30.41.00-IT	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
			Direct	PCI-Express	PY-SC3FE S26361-F3845-L501	Note 1	Note 1	Note 1	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
		Red Hat Enterprise Linux AS/ES (v.4 for x86 & EM64T) [2.6.9-99.EL] RHEL4.8	Direct	PCI-Express	PG-228B/PG-228BL/ S26361-F3271-L1/ S26361-F3271-L201	6.26.00.00	1.27.41.00-IT	OS bundled	EMPD	PCL	No	Supported (V20L10 or later)	-	
			Direct			6.30.00.00	1.30.40.00-IT		EMPD	PCL	No	Supported (V20L10 or later)	-	Host Affinity function can not be used. Please disable Host Affinity function.
			Direct			6.30.00.00	1.30.41.00-IT		EMPD	PCL	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
		SLES12 (x64)	Direct	PCI-Express	PY-SC3FE S26361-F3845-L501 PSAS CP400e FH/LP	Note 1	Note 1	Note 1	EMPD	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Direct	PCI-Express	PG-22DC/PG-22DCL/ PY-SC2Z0 S26361-F3628-L501	Note 1	Note 1	Note 1	EMPD	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
			switch blade/ pass-through blade	PCI-Express	PY-SCD08/PYBSCD082 PG-SAD201 S26361-F4480-L1 PYSAS HBA Mezz Card 6Gb	Note 1	Note 1	Note 1	EMPD	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Direct	PCI-Express	PG-228B/PG-228BL/ PY-SC1Y0 S26361-F3271-L1	Note 1	Note 1	Note 1	EMPD	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Direct			Note 1	Note 1	Note 1	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Direct	PCI-Express	PY-SC3FE S26361-F3845-L501	Note 1	Note 1	Note 1	EMPD	-	No	N.A.	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
	SUSE 11 (x86 & x64)	SUSE Linux Enterprise Server 11 (SP4) Xen	Direct	PCI-Express	PY-SC3FE S26361-F3845-L501	Note 1	Note 1	Note 1	DeviceMapper	-	No	N.A.	Supported (V10L60 or later)	
		SUSE Linux Enterprise Server 11 (SP3) Xen	Direct	PCI-Express	PY-SC3FE S26361-F3845-L501	Note 1	Note 1	Note 1	EMPD	-	No	N.A.	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
		SUSE Linux Enterprise Server 11 (SP 2) Xen	Direct	PCI-Express	PG-228B/PG-228BL/ PY-SC1Y0 S26361-F3271-L1	6.30.00.00	1.30.41.00— I T	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	
			Direct	PCI-Express	PG-22DC/PG-22DCL/ PY-SC2Z0 S26361-F3628-L501	7.19.00.00	10.00.00.00-IT	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	Please apply the following patches when using DeviceMapper. (for x86 version) - kpartx-0.4.9-0.66.1.i586.rpm or later - multipath-tools-0.4.9-0.66.1.i586.rpm or later (for EM64T version) - kpartx-0.4.9-0.66.1.x86_64.rpm or later - multipath-tools-0.4.9-0.66.1.x86_64.rpm or later
			Direct	PCI-Express	PY-SC3FE S26361-F3845-L501	Note 1	Note 1	Note 1	EMPD	-	No	N.A.	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Direct			Note 1	Note 1	Note 1	DeviceMapper	-	No	N.A.	Supported (V10L60 or later)	
		SUSE Linux Enterprise Server 11 (SP1) Xen	Direct	PCI-Express	PG-228B/PG-228BL/ S26361-F3271-L1/ S26361-F3271-L201	6.30.00.00	1.30.41.00-IT	4.26.00.00	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
			Direct	PCI-Express	PG-22DC/PG-22DCL	7.07.00.00	5.00.13.00-IT	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
		SUSE Linux Enterprise Server 10 (SP4) Xen	Direct	PCI-Express	PG-228B/PG-228BL/ S26361-F3271-L1/ S26361-F3271-L201	6.30.00.00	1.30.41.00-IT	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
			Direct	PCI-Express	PG-22DC/PG-22DCL/ PY-SC2Z0 S26361-F3628-L501	7.07.00.00	5.00.13.00-IT	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
	SUSE 10 (x86 & EM64T)	SUSE Linux Enterprise Server 10 (SP3) Xen	Direct	PCI-Express	PG-228B/PG-228BL/ S26361-F3271-L1/ S26361-F3271-L201	6.30.00.00	1.30.41.00-IT	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L47 or later)	
			Direct	PCI-Express	PG-22DC/PG-22DCL	7.07.00.00	5.00.13.00-IT	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L47 or later)	
		SUSE Linux Enterprise Server 10 (SP2)	Direct	PCI-Express	LSISAS3442E-R	6.26.00.00	1.27.41.00-IT	OS bundled	DeviceMapper	-	Yes	Supported (V20L10 or later)	-	
			Direct											

Linux	OS [Kernel]		Connected Type	Bus	HBA				Path Failover	Cluster system	Boot	Model		Instruction for use
					model name	BIOS version	Firmware version	Driver version				DX60 S2	DX80 S2 DX90 S2	
Other Companies' Servers	RHEL 7 (Intel64)	Red Hat Enterprise Linux 7 (for Intel64) [3.10.0-514] RHEL 7.3 & KVM	Direct	PCI-Express	LSI SAS9200-8e	Note 2	Note 2	Note 2	EMPD	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
									DeviceMapper	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct	PCI-Express	LSI SAS9300-8e	Note 2	Note 2	Note 2	EMPD	-	No	N.A.	Supported (V10L60 or later)	
									DeviceMapper	-	No	N.A.	Supported (V10L60 or later)	
		Red Hat Enterprise Linux 7 (for Intel64) RHEL 7.2 &KVM	Direct	PCI-Express	LSI SAS9200-8e	Note 2	Note 2	Note 2	EMPD	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
					LSISAS3442E-R	Note 2	Note 2	Note 2	EMPD	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
									DeviceMapper	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct	PCI-Express	LSI SAS9300-8e	Note 2	Note 2	Note 2	EMPD	-	No	N.A.	Supported (V10L60 or later)	
									DeviceMapper	-	No	N.A.	Supported (V10L60 or later)	
		Red Hat Enterprise Linux 7 [3.10.0-229] (for Intel64) RHEL 7.1 &KVM	Direct	PCI-Express	LSI SAS9200-8e	Note 2	Note 2	Note 2	EMPD	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
					LSISAS3442E-R	Note 2	Note 2	Note 2	EMPD	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
									DeviceMapper	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct	PCI-Express	LSI SAS9300-8e	Note 2	Note 2	Note 2	EMPD	-	No	N.A.	Supported (V10L60 or later)	
									DeviceMapper	-	No	N.A.	Supported (V10L60 or later)	
		Red Hat Enterprise Linux 7 [3.10.0-123] (for Intel64) RHEL 7.0 &KVM	Direct	PCI-Express	LSI SAS9200-8e	Note 2	Note 2	Note 2	EMPD	-	No	Supported (V20L14 or later)	Supported (V10L55 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
					LSISAS3442E-R	Note 2	Note 2	Note 2	EMPD	-	No	Supported (V20L14 or later)	Supported (V10L55 or later)	
									DeviceMapper	-	No	Supported (V20L14 or later)	Supported (V10L55 or later)	
			Direct	PCI-Express	LSI SAS9300-8e	Note 2	Note 2	Note 2	EMPD	-	No	N.A.	Supported (V10L60 or later)	
									DeviceMapper	-	No	N.A.	Supported (V10L60 or later)	

Linux	OS [Kernel]		Connected Type	Bus	HBA				Path Failover	Cluster system	Boot	Model		Instruction for use
					model name	BIOS version	Firmware version	Driver version				DX60 S2	DX80 S2 DX90 S2	
Other Companies' Servers	RHEL 6 (x86 & Intel64)	Red Hat Enterprise Linux 6 [2.6.32-573.el6] RHEL6.7 & KVM	Direct	PCI-Express	LSI SAS9200-8e	Note 2	Note 2	Note 2	EMPD	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
									DeviceMapper	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct	PCI-Express	LSISAS3442E-R	Note 2	Note 2	Note 2	EMPD	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
									DeviceMapper	-	No	Supported (V20L14 or later)	Supported (V10L60 or later)	
			Direct	PCI-Express	LSI SAS9300-8e	Note 2	Note 2	Note 2	EMPD	-	No	N.A.	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
									DeviceMapper	-	No	N.A.	Supported (V10L60 or later)	
		Red Hat Enterprise Linux 6 [2.6.32-504.el6] RHEL6.6 & KVM	Direct	PCI-Express	LSI SAS9200-8e	7.19.00.00	10.00.00.00-IT	OS bundled	EMPD	-	No	Supported (V20L14 or later)	Supported (V10L56 or later)	
									DeviceMapper	-	No	Supported (V20L14 or later)	Supported (V10L56 or later)	
			Direct	PCI-Express	LSISAS3442E-R	6.30.00.00	1.30.41.00- 1 T	OS bundled	EMPD	-	No	Supported (V20L14 or later)	Supported (V10L56 or later)	
									DeviceMapper	-	No	Supported (V20L14 or later)	Supported (V10L56 or later)	
			Direct	PCI-Express	LSI SAS9300-8e	Note 2	Note 2	Note 2	EMPD	-	No	N.A.	Supported (V10L56 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
									DeviceMapper	-	No	N.A.	Supported (V10L56 or later)	
		Red Hat Enterprise Linux 6 [2.6.32-431.el6] RHEL6.5 & KVM	Direct	PCI-Express	LSI SAS9200-8e	7.19.00.00	10.00.00.00-IT	OS bundled	EMPD	-	No	Supported (V20L14 or later)	Supported (V10L54 or later)	
									DeviceMapper	-	No	Supported (V20L14 or later)	Supported (V10L54 or later)	
			Direct	PCI-Express	LSISAS3442E-R	6.30.00.00	1.30.41.00- 1 T	OS bundled	EMPD	-	No	Supported (V20L14 or later)	Supported (V10L54 or later)	
									DeviceMapper	-	No	Supported (V20L14 or later)	Supported (V10L54 or later)	
			Direct	PCI-Express	LSI SAS9300-8e	Note 2	Note 2	Note 2	EMPD	-	No	N.A.	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
									DeviceMapper	-	No	N.A.	Supported (V10L60 or later)	
		Red Hat Enterprise Linux 6 [2.6.32-358.el6] RHEL6.4 & KVM	Direct	PCI-Express	LSI SAS9200-8e	7.19.00.00	10.00.00.00-IT	OS bundled	EMPD	-	No	Supported (V20L14 or later)	Supported (V10L47 or later)	
									DeviceMapper	-	No	Supported (V20L14 or later)	Supported (V10L47 or later)	
					LSISAS3442E-R	6.30.00.00	1.30.41.00- 1 T	OS bundled	EMPD	-	No	Supported (V20L14 or later)	Supported (V10L47 or later)	
									DeviceMapper	-	No	Supported (V20L14 or later)	Supported (V10L47 or later)	
			Direct	PCI-Express	LSI SAS9300-8e	Note 2	Note 2	Note 2	EMPD	-	No	N.A.	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
									DeviceMapper	-	No	N.A.	Supported (V10L60 or later)	

Linux	OS [Kernel]		Connected Type	Bus	HBA				Path Failover	Cluster system	Boot	Model		Instruction for use	
					model name	BIOS version	Firmware version	Driver version				DX60 S2	DX80 S2 DX90 S2		
Other Companies' Servers	RHEL 6 (x86 & Intel64)	Red Hat Enterprise Linux 6 [2.6.32-279.el6] RHEL6.3 & KVM	Direct	PCI-Express	LSI SAS9200-8e	7.07.00.00	5.00.13.00-IT	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)		
									DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)		
					LSISAS3442E-R	6.30.00.00	1.30.41.00- 1 T	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)		
									DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)		
		Red Hat Enterprise Linux 6 [2.6.32-220.el6] RHEL6.2 & KVM	Direct	PCI-Express	LSI SAS9200-8e	7.07.00.00	5.00.13.00-IT	OS bundled	EMPD	-	No	Supported (V10L66 or later)	Supported (V10L25 or later)		
									DeviceMapper	-	No	Supported (V10L66 or later)	Supported (V10L25 or later)		
					LSISAS3442E-R	6.30.00.00	1.30.41.00— 1 T	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)		
									DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)		
		Red Hat Enterprise Linux 6 [2.6.32-131.0.15.el6] RHEL6.1 & KVM	Direct	PCI-Express	LSISAS3442E-R	6.30.00.00	1.30.41.00-IT	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L16 or later)		
									DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)		
			Direct	PCI-Express	LSI SAS9200-8e	7.07.00.00	5.00.13.00-IT	OS bundled	EMPD (V2.0L22 or later)	-	NO	Supported (V20L10 or later)	Supported (V10L16 or later)		
									DeviceMapper	-	NO	Supported (V20L10 or later)	Supported (V10L16 or later)		
		Red Hat Enterprise Linux 6 [2.6.32-71.el6] RHEL6.0 & KVM	Direct	PCI-Express	LSISAS3442E-R	6.30.00.00	1.30.40.00	OS bundled	EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)		
									6.34.00.00	1.32.00.00	OS bundled	EMPD	-		No
			Direct	PCI-Express	LSI SAS9200-8e	6.34.00.00	1.32.00.00	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)		
						7.17.00.00	9.00.00.00	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)		
			via Switch (LSI SAS6160/6161)	PCI-Express	LSI SAS9200-8e	7.17.00.00	9.00.00.00	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)		
						7.17.00.00	9.00.00.00	OS bundled	EMPD	-	No	N.A.	Supported (V10L11 or later)		
			7.17.00.00	9.00.00.00	OS bundled	DeviceMapper	-	No	N.A.	Supported (V10L11 or later)					

Linux	OS [Kernel]		Connected Type	Bus	HBA				Path Failover	Cluster system	Boot	Model		Instruction for use
					model name	BIOS version	Firmware version	Driver version				DX60 S2	DX80 S2 DX90 S2	
Other Companies' Servers	RHEL 5 (x86 & Intel64)	Red Hat Enterprise Linux 5 [2.6.18-398.el5] RHEL5.11	Direct	PCI-Express	LSI SAS9300-8e	Note 2	Note 2	Note 2	EMPD	-	No	N.A.	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
									DeviceMapper	-	No	N.A.	Supported (V10L60 or later)	
		Red Hat Enterprise Linux 5.10 [2.6.18-371.el5] RHEL5.10	Direct	PCI-Express	LSI SAS9200-8e	7.07.00.00	5.00.13.00-IT	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
									DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
			Direct	PCI-Express	LSISAS3442E-R	6.30.00.00	1.30.41.00-IT	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
									DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
			Direct	PCI-Express	LSI SAS9300-8e	Note 2	Note 2	Note 2	EMPD	-	No	N.A.	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
									DeviceMapper	-	No	N.A.	Supported (V10L60 or later)	
		Red Hat Enterprise Linux 5 [2.6.18-348.el5] RHEL5.9	Direct	PCI-Express	LSI SAS9200-8e	7.07.00.00	5.00.13.00-IT	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
									DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
			Direct	PCI-Express	LSISAS3442E-R	6.30.00.00	1.30.41.00-IT	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
									DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
			Direct	PCI-Express	LSI SAS9300-8e	Note 2	Note 2	Note 2	EMPD	-	No	N.A.	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
									DeviceMapper	-	No	N.A.	Supported (V10L60 or later)	
		Red Hat Enterprise Linux 5 [2.6.18-308.el5] RHEL5.8	Direct	PCI-Express	LSI SAS9200-8e	7.07.00.00	5.00.13.00-IT	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
									DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L22 or later)	
			Direct	PCI-Express	LSISAS3442E-R	6.30.00.00	1.30.41.00-IT	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
									DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
		Red Hat Enterprise Linux 5 [2.6.18-274.el5] RHEL5.7 & Xen	Direct	PCI-Express	LSI SAS9200-8e	7.07.00.00	5.00.13.00-IT	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
									DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
			Direct	PCI-Express	LSISAS3442E-R	6.30.00.00	1.30.41.00-IT	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
									DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L35 or later)	
		Red Hat Enterprise Linux 5 [2.6.18-238.el5] RHEL5.6 & Xen	Direct	PCI-Express	LSISAS3442E-R	6.34.00.00	1.32.00.00	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
						6.34.00.00	1.32.00.00	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
						6.30.00.00	1.30.41.00-IT	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
									DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
			Direct	PCI-Express	LSI SAS9200-8e	7.17.00.00	9.00.00.00	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
						7.17.00.00	9.00.00.00	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
						7.17.00.00	9.00.00.00	OS bundled	EMPD	-	No	N.A.	Supported (V10L11 or later)	
									DeviceMapper	-	No	N.A.	Supported (V10L11 or later)	

Linux	OS [Kernel]		Connected Type	Bus	HBA				Path Follower	Cluster system	Boot	Model		Instruction for use
					model name	BIOS version	Firmware version	Driver version				DX60 S2	DX80 S2 DX90 S2	
Other Companies' Servers	RHEL 5 (x86 & Intel64)	Red Hat Enterprise Linux 5 [2.6.18-194.el5] RHEL5.5	Direct	PCI-Express	LSISAS3442E-R	6.26.00.00	1.27.41.00-IT	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Host Affinity function can not be used. Please disable Host Affinity function.
						6.30.00.00	1.30.40.00		DeviceMapper			Supported (V20L10 or later)	Supported (V10L11 or later)	
						6.34.00.00	1.32.00.00		EMPD			Supported (V20L10 or later)	Supported (V10L11 or later)	
						6.34.00.00	1.32.00.00		DeviceMapper			Supported (V20L10 or later)	Supported (V10L11 or later)	
		Red Hat Enterprise Linux 5 [2.6.18-194.el5] RHEL5.5 & Xen	Direct	PCI-Express	LSI SAS9200-9e	7.17.00.00	9.00.00.00	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
						7.17.00.00	9.00.00.00		DeviceMapper			Supported (V20L10 or later)	Supported (V10L11 or later)	
						7.17.00.00	9.00.00.00		EMPD			N.A.	Supported (V10L11 or later)	
						7.17.00.00	9.00.00.00		DeviceMapper			N.A.	Supported (V10L11 or later)	
		Red Hat Enterprise Linux 5 [2.6.18-164.el5] RHEL5.4	Direct	PCI-Express	LSISAS3442E-R	6.26.00.00	1.27.41.00-IT	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	Host Affinity function can not be used. Please disable Host Affinity function.
						6.30.00.00	1.30.40.00		DeviceMapper			Supported (V20L10 or later)	Supported (V10L11 or later)	
		Red Hat Enterprise Linux 5 [2.6.18-128.el5] RHEL5.3	Direct	PCI-Express	LSISAS3442E-R	6.26.00.00	1.27.41.00-IT	OS bundled	EMPD	-	No	Supported (V20L10 or later)	-	Host Affinity function can not be used. Please disable Host Affinity function.
						6.30.00.00	1.30.40.00		DeviceMapper			Supported (V20L10 or later)	-	
						6.30.00.00	1.30.40.00		EMPD			Supported (V20L10 or later)	-	
						6.30.00.00	1.30.40.00		DeviceMapper			Supported (V20L10 or later)	-	

Linux	OS [Kernel]		Connected Type	Bus	HBA				Path Failover	Cluster system	Boot	Model		Instruction for use
					model name	BIOS version	Firmware version	Driver version				DX60 S2	DX80 S2 DX90 S2	
Other Companies' Servers	RHEL 4 (x86 & EM64T)	Red Hat Enterprise Linux AS/ES (v.4 for x86 & EM64T) [2.6.9-100.EL] RHEL4.9	Direct	PCI-Express	LSISAS3442E-R	6.30.00.00	1.30.41.00-IT	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
									DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
		Red Hat Enterprise Linux AS/ES (v.4 for x86 & EM64T) [2.6.9-89.EL] RHEL4.8	Direct	PCI-Express	LSI SAS9300-8e	Note 2	Note 2	Note 2	EMPD	-	No	N.A.	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
									DeviceMapper	-	No	N.A.	Supported (V10L60 or later)	
			Direct	PCI-Express	LSISAS3442E-R	6.26.00.00	1.27.41.00-IT	OS bundled	EMPD	-	No	Supported (V20L10 or later)	-	Host Affinity function can not be used. Please disable Host Affinity function.
						6.30.00.00	1.30.40.00		EMPD			Supported (V20L10 or later)	-	
									DeviceMapper			Supported (V20L10 or later)	Supported (V10L11 or later)	
			Direct			6.34.00.00	1.32.00.00	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
			Direct			7.17.00.00	9.00.00.00	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
			via Switch (LSI SAS6160/6161)	PCI-Express	LSI SAS9200-8e	7.17.00.00	9.00.00.00	OS bundled	EMPD	-	No	N.A.	Planned 1 2011.4Q	
	SLES12 (x64)	SUSE Linux Enterprise Server 12 for AMD64/Intel 64 GA/SP1 (including xen/KVM)	Direct	PCI-Express	LSI SAS9300-8e	Note 2	Note 2	Note 2	EMPD	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
									DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Direct	PCI-Express	LSI SAS9200-8e	Note 2	Note 2	Note 2	EMPD	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
									DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Direct	PCI-Express	LSI SAS3442E-R	Note 2	Note 2	Note 2	EMPD	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
									DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
	SUSE11 (x86 & EM64T)	SUSE Linux Enterprise Server 11 (SP4) Xen	Direct	PCI-Express	LSI SAS9300-8e	Note 2	Note 2	Note 2	EMPD	-	No	N.A.	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
									DeviceMapper	-	No	N.A.	Supported (V10L60 or later)	
		SUSE Linux Enterprise Server 11 (SP3) Xen	Direct	PCI-Express	LSI SAS9300-8e	Note 2	Note 2	Note 2	EMPD	-	No	N.A.	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
									DeviceMapper	-	No	N.A.	Supported (V10L60 or later)	
		SUSE Linux Enterprise Server 11 (SP 2) Xen	Direct	PCI-Express	LSISAS3442E-R	6.30.00.00	1.30.41.00— I T	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	Please apply the following patches when using DeviceMapper. (for x86 version) - kpartx-0.4.9-0.66.1.i586.rpm or later - multipath-tools-0.4.9-0.66.1.i586.rpm or later (for EM64T version) - kpartx-0.4.9-0.66.1.x86_64.rpm or later - multipath-tools-0.4.9-0.66.1.x86_64.rpm or later
			Direct	PCI-Express	LSI SAS9200-8e	7.19.00.00	10.00.00.00-IT	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L25 or later)	
			Direct	PCI-Express	LSI SAS9300-8e	Note 2	Note 2	Note 2	EMPD	-	No	N.A.	Supported (V10L60 or later)	
		SUSE Linux Enterprise Server 11 (SP1) & Xen							DeviceMapper	-	No	N.A.	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
			Direct	PCI-Express	LSISAS3442E-R	6.30.00.00	1.30.40.00	OS bundled	EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
			Direct	PCI-Express	LSISAS3442E-R	6.34.00.00	1.32.00.00	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
			Direct			6.30.00.00	1.30.41.00-IT	4.26.00.00	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
			Direct			7.17.00.00	9.00.00.00	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
			via Switch (LSI SAS6160/6161)	PCI-Express	LSI SAS9200-8e	7.17.00.00	9.00.00.00	OS bundled	DeviceMapper	-	No	N.A.	Supported (V10L11 or later)	
	SUSE 10 (x86 & EM64T)	SUSE Linux Enterprise Server 10 (SP4) Xen	Direct	PCI-Express	LSI SAS9200-8e	7.07.00.00	5.00.13.00-IT	OS bundled	EMPD	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
									DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
		SUSE Linux Enterprise Server 10 (SP3) & Xen	Direct/ via Switch (LSI SAS6160/6161)	PCI-Express	LSISAS3442E-R	6.34.00.00	1.32.00.00	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
			Direct			7.17.00.00	9.00.00.00	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
			via Switch (LSI SAS6160/6161)	PCI-Express	LSI SAS9200-8e	7.17.00.00	9.00.00.00	OS bundled	DeviceMapper	-	No	N.A.	Planned 1 2011.4Q	
			Direct							-	No			
			Direct	PCI-Express	LSISAS3442E-R	6.26.00.00	1.27.41.00-IT	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Planned 2	

Notes

- For each Operating System, Path Failover software, please apply necessary patches which are suggested by the product suppliers.
 - If multipath configuration is supported, then single path configuration is also supported. But multipath configuration may be mandatory because of cluster requirement.

FC-FCoE(switch) connection : This sheet is for the system of connection of Server(CNA card) -- FCoE switch - ETERNUS FC port.

Linux	OS [Kernel]		Connection type			HBA				Path Failover	System Configuration	SAN boot	Model		Instruction for use
			via switch (Brocade 8000 & Brocade FCoE blade only Fabric OS is v6.3.1a)	via Switch (Brocade VNX6730, NOS v2.1.1)	via switch Cisco Nexus5000	model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE driver version				DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	RHEL 7 (x64/KVM)	Red Hat Enterprise Linux 7 (for Intel64) RHEL 7.0/7.1/7.2	Supported	Supported	Planned 2	PY-CN202 PG-292 S26361-F3592-L2	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PG-CND201	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PY-CND02 S26361-F3592-L532 BX92xS3 Onboard CNA	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
	RHEL 6 (x86 & Intel64) & KVM	Red Hat Enterprise Linux 6 (for x86 & Intel64) RHEL 6.4/6.5/6.6/6.7	Supported	Supported	Planned 2	PY-CN202 PG-292 S26361-F3592-L2	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PG-CND201	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PY-CND02 S26361-F3592-L532 BX92xS3 Onboard CNA	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
		Red Hat Enterprise Linux 6 [2.6.32-71.el6] RHEL6.0	Supported	Supported	Planned 2	OCe10102-F		2.702.348.8	8.3.5.35-1	EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	N.A.	
			Supported	Supported	Planned 2	MC-CNA102E		2.702.348.8	8.3.5.35-1	EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	N.A.	
	RHEL 5 (x86, x64/Xen)	Red Hat Enterprise Linux 5 (for x86 & Intel64) [2.6.18-194.el5] RHEL5.5	Supported	Supported	Planned 2	S26361-F3592-L2/L202/ PG-292B/L	4.01a0	2.702.200.17	8.2.0.71	DeviceMapper	-	No	Supported (V20L10 or later)	Planned 2	

Linux	OS [Kernel]		Connection type			HBA				Path Failover	System Configuration	SAN boot	Model		Instruction for use
			via switch (Brocade 8000 & Brocade FCoE blade only Fabric OS is v6.3.1a)	via Switch (Brocade VDX6730, NOS v2.1.1)	via switch Cisco Nexus5000	model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE driver version				DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	SuSE12 (x64/Xen)	SUSE Linux Enterprise Server 12 for AMD64/Intel 64 GA/SP1 (including xen/KVM)	Supported	Supported	Planned 2	PY-CN202 PG-292 S26361-F3592-L2	Note 1	Note 1	Note 1	EMPD	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	Note 1	Note 1	Note 1	EMPD	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	Note 1	Note 1	Note 1	EMPD	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
	SuSE11 (x86 & EM64T) & Xen	SUSE Linux Enterprise Server 11 (SP2/SP3/SP4) Xen	Supported	Supported	Planned 2	PY-CN202 PG-292 S26361-F3592-L2	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PG-CND201	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PY-CND02 S26361-F3592-L532 BX92xS3 Onboard CNA	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
		SUSE Linux Enterprise Server 11 (SP1) Xen	Supported	Supported	Planned 2	OCe10102-F		2.702.348.8	8.3.5.35-1	EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	N.A.	
			Supported	Supported	Planned 2	MC-CNA102E		2.702.348.8	8.3.5.35-1	EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	N.A.	
	SUSE 10 (x86 & EM64T)	SUSE Linux Enterprise Server 10 (SP3)	Supported	Supported	Planned 2	S26361-F3592-L2/L202/ PG-292B/L	4.10a0	2.702.200.17	8.2.0.71-1	EMPD V2.0L20 or later	-	No	Supported (V20L10 or later)	Planned 2	
			Supported	Supported	Planned 2					DeviceMapper	-	No	Supported (V20L10 or later)	Planned 2	
			Supported	Supported	Planned 2	OCe10102-F		2.702.348.8	8.2.0.95-1	EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	N.A.	
			Supported	Supported	Planned 2	MC-CNA102E		2.702.348.8	8.2.0.95-1	EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	N.A.	

Linux	OS [Kernel]		Connection type			HBA				Path Failover	System Configuration	SAN boot	Model		Instruction for use		
			via switch (Brocade 8000 & Brocade FCoE blade only Fabric OS is v6.3.1a)	via Switch (Brocade VDX6730, NOS v2.1.1)	via switch Cisco Nexus5000	model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE driver version				DX60 S2	DX80 S2 DX90 S2			
Other Companies' Servers	RHEL 7 (x64/KVM)	Red Hat Enterprise Linux 7 (for Intel64) RHEL 7.0/7.1/7.2	Supported	Supported	Planned 2	OCe10102	HP: NC551/NC551m CN1000E	Note 2	Note 2	Note 2	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.	
			Supported	Supported	Planned 2						DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)		
			Supported	Supported	Planned 2	OCe14401B	Note 2	Note 2	Note 2	Note 2	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.	
			Supported	Supported	Planned 2						DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)		
			Supported	Supported	Planned 2	OCe14102	Note 2	Note 2	Note 2	Note 2	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.	
			Supported	Supported	Planned 2						DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)		
			Supported	Supported	Planned 2	OCe11102	Note 2	Note 2	Note 2	Note 2	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.	
			Supported	Supported	Planned 2						DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)		
	RHEL 6 (x86 & Intel64) & KVM	Red Hat Enterprise Linux 6 (for x86 & Intel64) RHEL 6.4/6.5/6.6/6.7	Supported	Supported	Planned 2	OCe10102	HP: NC551/NC551m CN1000E	Note 2	Note 2	Note 2	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.	
			Supported	Supported	Planned 2						DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)		
			Supported	Supported	Planned 2	OCe14401B	Note 2	Note 2	Note 2	Note 2	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.	
			Supported	Supported	Planned 2						DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)		
			Supported	Supported	Planned 2	OCe14102	Note 2	Note 2	Note 2	Note 2	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.	
			Supported	Supported	Planned 2						DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)		
			Supported	Supported	Planned 2	OCe11102	Note 2	Note 2	Note 2	Note 2	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.	
			Supported	Supported	Planned 2						DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)		
	SuSE12 (x64/Xen)	Red Hat Enterprise Linux 6 [2.6.32-71.el6] RHEL6.0	Supported	Supported	Planned 2	OCe10102	HP: NC551/NC551m CN1000E			2.702.348.8	8.3.5.35-1	EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	N.A.	
			SUSE Linux Enterprise Server 12 for AMD64/Intel 64 GA/SP1 (including xen/KVM)	Supported	Supported	Planned 2	OCe10102	HP: NC551/NC551m CN1000E	Note 2	Note 2	Note 2	EMPD	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
				Supported	Supported	Planned 2						DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
				Supported	Supported	Planned 2	OCe14401B	Note 2	Note 2	Note 2	Note 2	EMPD	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
				Supported	Supported	Planned 2						DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
				Supported	Supported	Planned 2	OCe14102	Note 2	Note 2	Note 2	Note 2	EMPD	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
	Supported	Supported	Planned 2	DeviceMapper	-	Yes						Supported (V20L16 or later)	Supported (V10L60 or later)				
	SuSE11 (x86 & EM64T) & Xen	SUSE Linux Enterprise Server 11 (SP2/SP3/SP4) Xen	Supported	Supported	Planned 2	OCe10102	HP: NC551/NC551m CN1000E	Note 2	Note 2	Note 2	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.	
			Supported	Supported	Planned 2						DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)		
			Supported	Supported	Planned 2	OCe14401B	Note 2	Note 2	Note 2	Note 2	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.	
			Supported	Supported	Planned 2						DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)		
			Supported	Supported	Planned 2	OCe14102	Note 2	Note 2	Note 2	Note 2	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.	
			Supported	Supported	Planned 2						DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)		
			Supported	Supported	Planned 2	OCe11102	Note 2	Note 2	Note 2	Note 2	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.	
			Supported	Supported	Planned 2						DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)		
		SUSE Linux Enterprise Server 11 (SP1) Xen	Supported	Supported	Planned 2	OCe10102	HP: NC551/NC551m CN1000E			2.702.348.8	8.3.5.35-1	EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	N.A.	
	SuSE10 (x86 & EM64T) & Xen	SUSE Linux Enterprise Server 10 (SP 3) Xen	Supported	Supported	Planned 2	OCe10102	HP: NC551/NC551m CN1000E			2.702.348.8	8.2.0.95-1	EMPD (V2.0L21 or later)	-	No	Supported (V20L10 or later)	N.A.	

Note

FCoE-FCoE(switch) connection : This sheet is for the system of connection of Server(CNA card) -- FCoE switch - ETERNUS FCoE port.

LINUX	OS (Kernel) Note 2		Connection type			HBA				Path Failover	Cluster system	SAN boot	Model	Instruction for uses
			via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6710/6720/ 6730, NOS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE Driver version				DX80 S2 DX90 S2	
PRIMEQUEST 2000 series (PQ2800E2/PQ2800L2/ PQ2400E2/PQ2400L2/ PQ2400S2/PQ2400S2 Lite/ PQ2800B2/ PQ2800E/PQ2800L/ PQ2400E/PQ2400L/ PQ2400S/PQ2400S Lite/ PQ2800B only)	RHEL6 (x86/ Intel64)	Red Hat Enterprise Linux 6 (for x86 & Intel64) [2.6.32-504.el6] RHEL6.6	Supported	Supported	Planned 2	MC-0JCE6*	See Instruction for use	See Instruction for use	See Instruction for use	EMPD (V2.0L26 or later)	PCL	No	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.
PRIMEQUEST 2000 series (PQ2800E2/PQ2800L2/ PQ2400E2/PQ2400L2/ PQ2400S2/PQ2400S2 Lite/ PQ2800B2)	SUSE12	SUSE Linux Enterprise Server 12	Supported	Supported	Planned 2	MC-0JCE6*	See Instruction for use	See Instruction for use	See Instruction for use	EMPD	—		Planned 2	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.
	SUSE11 SP3	SUSE Linux Enterprise Server 11 SP3	Supported	Supported	Planned 2	MC-0JCE6*	See Instruction for use	See Instruction for use	See Instruction for use	EMPD	—		Planned 2	- Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST 2000 series.
PRIMERGY	RHEL 7 (x64/KVM)	Red Hat Enterprise Linux 7 (for Intel64) RHEL 7.0/7.1/7.2	Supported	Supported	Planned 2	PY-CN202 PG-292 S26361-F3592-L2	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PG-CND201	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PY-CND02 S26361-F3592-L532 BX92xS3 Onboard CNA	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V10L60 or later)	

LINUX	OS (Kernel) Note 2		Connection type			HBA				Path Failover	Cluster system	SAN boot	Model	Instruction for uses
			via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6710/6720/ 6730, NOS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE Driver version				DX80 S2 DX90 S2	
PRIMERGY	RHEL 6 (x86, x64/KVM)	Red Hat Enterprise Linux 6 (for x86 & Intel64) RHEL 6.5/6.6/6.7	Supported	Supported	Planned 2	PY-CN202 PG-292 S26361-F3592-L2	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PG-CND201	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PY-CND02 S26361-F3592-L532 BX92XS3 Onboard CNA	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V10L60 or later)	
		Red Hat Enterprise Linux 6 (for x86 & Intel64) [2.6.32-358.el6] RHEL6.4	Supported	Supported	Supported	PG-292(BL)/PY-CN202 S26361-F3592-L2/L202/	4.03a5 or later	4.6.142.10 or later	8.3.7.11.2p or later	EMPD	—	No	Supported (V10L50 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
			Supported	Supported	Supported					DeviceMapper	—	No	Supported (V10L50 or later)	
			Supported	Supported	Planned 2	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	See Instruction for use	See Instruction for use	See Instruction for use	EMPD	PCL	No	Supported (V10L50 or later)	
			Supported	Supported	Planned 2					DeviceMapper	PCL	No	Supported (V10L50 or later)	
			Supported	Supported	Planned 2	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	See Instruction for use	See Instruction for use	See Instruction for use	EMPD	PCL	No	Supported (V10L50 or later)	
			Supported	Supported	Planned 2					DeviceMapper	PCL	No	Supported (V10L50 or later)	
		Red Hat Enterprise Linux 6 (for x86 & Intel64) [2.6.32-358.el6] RHEL6.3	Supported	Supported	Planned 2	PG-292(BL)/PY-CN202 S26361-F3592-L2/L202/	4.03a5	4.2.401.25	OS bundled	EMPD	PCL	No	Supported (V10L50 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
			Supported	Supported	Planned 2					DeviceMapper	PCL	No	Supported (V10L50 or later)	
			Supported	Supported	Planned 2	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	See Instruction for use	See Instruction for use	See Instruction for use	EMPD	PCL	No	Supported (V10L50 or later)	
			Supported	Supported	Planned 2					DeviceMapper	PCL	No	Supported (V10L50 or later)	
			Supported	Supported	Planned 2	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	See Instruction for use	See Instruction for use	See Instruction for use	EMPD	PCL	No	Supported (V10L50 or later)	
			Supported	Supported	Planned 2					DeviceMapper	PCL	No	Supported (V10L50 or later)	

LINUX	OS (Kernel) Note 2		Connection type			HBA				Path Failover	Cluster system	SAN boot	Model	Instruction for uses
			via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6710/6720/ 6730, NOS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE Driver version				DX80 S2 DX90 S2	
PRIMERGY	RHEL 6 (x86, x64/KVM)	Red Hat Enterprise Linux 6 (for x86 & Intel®64) [2.6.32-71.el6] RHEL6.0	Supported	Supported	Planned 2	S26361-F3592-L2/L202/ PG-292B/L	4.02a7	2.703.397.1	8.3.5.35-1	EMPD	-	No	Supported (V10L11 or later)	
			Supported	Supported	Planned 2					DeviceMapper	-	No	Supported (V10L11 or later)	
			Supported	Supported	Planned 2	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	See Instruction for use	See Instruction for use	See Instruction for use	EMPD	-	No	Supported (V10L50 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
			Supported	Supported	Planned 2					DeviceMapper	-	No	Supported (V10L50 or later)	
			Supported	Supported	Planned 2	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	See Instruction for use	See Instruction for use	See Instruction for use	EMPD	-	No	Supported (V10L50 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
			Supported	Supported	Planned 2					DeviceMapper	-	No	Supported (V10L50 or later)	
			Supported	Supported	Planned 2	MC-CNA102E	4.01a3	2.702.348.8	8.3.5.35-1	EMPD	-	No	Supported (V10L11 or later)	
			Supported	Supported	Planned 2					DeviceMapper	-	No	Supported (V10L11 or later)	
	RHEL 5 (x86 & x64) & Xen	Red Hat Enterprise Linux 5 (for x86 & Intel®64) [2.6.18-238.el5] RHEL5.6	Supported	Supported	Planned 2	S26361-F3592-L2/L202/ PG-292B/L	4.02a7	2.703.397.1	8.2.0.96-1	EMPD	-	No	Supported (V10L11 or later)	
			Supported	Supported	Planned 2					DeviceMapper	-	No	Supported (V10L11 or later)	
			Supported	Supported	Planned 2	MC-CNA102E	4.01a3	2.702.348.8	8.2.0.96	EMPD	-	No	Supported (V10L11 or later)	
			Supported	Supported	Planned 2					DeviceMapper	-	No	Supported (V10L11 or later)	
		Red Hat Enterprise Linux 5 (for x86 & Intel®64) [2.6.18-194.el5] RHEL5.5	Supported	Supported	Planned 2	S26361-F3592-L2/L202/ PG-292B/L	4.02a7	2.703.397.1	8.2.0.76	EMPD	-	No	Supported (V10L11 or later)	
			Supported	Supported	Planned 2					DeviceMapper	-	No	Supported (V10L11 or later)	
			Supported	Supported	Planned 2	MC-CNA102E	4.01a3	2.702.348.8	8.2.0.76	EMPD	-	No	Supported (V10L11 or later)	
			Supported	Supported	Planned 2					DeviceMapper	-	No	Supported (V10L11 or later)	

LINUX	OS (Kernel) Note 2		Connection type			HBA				Path Failover	Cluster system	SAN boot	Model	Instruction for uses
			via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6710/6720/ 6730, NOS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE Driver version				DX80 S2 DX90 S2	
PRIMERGY	SuSE12 (x64/Xen)	SUSE Linux Enterprise Server 12 for AMD64/Intel 64 GA/SP1 (including xen/KVM)	Supported	Supported	Planned 2	PY-CN202 S26361-F3592-L2	See instruction for use	See instruction for use	See instruction for use	EMPD	-	No	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
			Supported	Supported	Planned 2					DeviceMapper	-	No	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PG-CND201	See instruction for use	See instruction for use	See instruction for use	EMPD	-	No	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
			Supported	Supported	Planned 2					DeviceMapper	-	No	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	See instruction for use	See instruction for use	See instruction for use	EMPD	-	No	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
			Supported	Supported	Planned 2					DeviceMapper	-	No	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	See instruction for use	See instruction for use	See instruction for use	EMPD	-	No	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
			Supported	Supported	Planned 2					DeviceMapper	-	No	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PY-CND02 /PYBCND021 S26361-F3592-L532 S26361-F3592-E532 Onboard CNA (BE3)	See instruction for use	See instruction for use	See instruction for use	EMPD	-	No	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
			Supported	Supported	Planned 2					DeviceMapper	-	No	Supported (V10L60 or later)	
	SuSE11 (x86 & x64) & Xen	SUSE Linux Enterprise Server 11 (SP4) Xen	Supported	Supported	Planned 2	PY-CN202 PG-292 S26361-F3592-L2	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PG-CND201	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PY-CND02 S26361-F3592-L532 BX92xS3 Onboard CNA	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V10L60 or later)	
		SUSE Linux Enterprise Server 11 (SP3) Xen	Supported	Supported	Planned 2	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	See instruction for use	See instruction for use	See instruction for use	EMPD	-	No	Supported (V10L50 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
			Supported	Supported	Planned 2					DeviceMapper	-	No	Supported (V10L50 or later)	
			Supported	Supported	Planned 2	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	See instruction for use	See instruction for use	See instruction for use	EMPD	-	No	Supported (V10L50 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
			Supported	Supported	Planned 2					DeviceMapper	-	No	Supported (V10L50 or later)	

LINUX	OS (Kernel) Note 2		Connection type			HBA				Path Failover	Cluster system	SAN boot	Model	Instruction for uses
			via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6710/6720/ 6730, NQS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE Driver version				DX80 S2 DX90 S2	
PRIMERGY	SuSE11 (x86 & x64) & Xen	SUSE Linux Enterprise Server 11 (SP1) Xen	Supported	Supported	Planned 2	S26361-F3592-L2/L202/ PG-292B/L	4.02a7	2.703.397.1	8.3.5.35	EMPD	-	No	Supported (V10L11 or later)	
			Supported	Supported	Planned 2					DeviceMapper	-	No	Supported (V10L11 or later)	
			Supported	Supported	Planned 2	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	See Instruction for use	See Instruction for use	See Instruction for use	EMPD	-	No	Supported (V10L50 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
			Supported	Supported	Planned 2					DeviceMapper	-	No	Supported (V10L50 or later)	
			Supported	Supported	Planned 2	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	See Instruction for use	See Instruction for use	See Instruction for use	EMPD	-	No	Supported (V10L50 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
			Supported	Supported	Planned 2					DeviceMapper	-	No	Supported (V10L50 or later)	
			Supported	Supported	Planned 2	MC-CNA102E	4.01a3	2.702.348.8	8.3.5.35	EMPD	-	No	Supported (V10L11 or later)	
			Supported	Supported	Planned 2					DeviceMapper	-	No	Supported (V10L11 or later)	
	SuSE10 (x86 & x64) & Xen	SUSE Linux Enterprise Server 10 (SP 3) Xen	Supported	Supported	Planned 2	S26361-F3592-L2/L202/ PG-292B/L	4.02a7	2.703.397.1	8.2.0.95	EMPD	-	No	Supported (V10L11 or later)	
			Supported	Supported	Planned 2					DeviceMapper	-	No	Supported (V10L11 or later)	
			Supported	Supported	Planned 2	MC-CNA102E	4.01a3	2.702.348.8	8.2.0.95	EMPD	-	No	Supported (V10L11 or later)	
			Supported	Supported	Planned 2					DeviceMapper	-	No	Supported (V10L11 or later)	

LINUX	OS (Kernel) Note 2		Connection type			HBA				Path Failover	Cluster system	SAN boot	Model	Instruction for uses
			via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6710/6720/ 6730, NOS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE Driver version				DX80 S2 DX90 S2	
Other Companies' Servers	RHEL 7 (x64/KVM)	Red Hat Enterprise Linux 7 (for Intel64) RHEL 7.0/7.1/7.2	Supported	Supported	Planned 2	HP: NC551/NC551m CN1000E	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	OCe14401B	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	OCe14102	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	OCe11102	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V10L60 or later)	
	RHEL 6 (x86 & x64) & KVM	Red Hat Enterprise Linux 6 (for x86 & Intel64) RHEL 6.4/6.5/6.6/6.7	Supported	Supported	Planned 2	HP: NC551/NC551m CN1000E	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	OCe14401B	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	OCe14102	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	OCe11102	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V10L60 or later)	
		Red Hat Enterprise Linux 6 (for x86 & Intel64) [2.6.32-71.el6] RHEL6.0	Supported	Supported	Supported	OCe10102 HP: NC551/NC551m CN1000E	4.02a7	2.703.397.1	8.3.5.35-1	EMPD	-	No	Supported (V10L11 or later)	
			Supported	Supported	Supported	OCe14401B	See Instruction for use	See Instruction for use	See Instruction for use	EMPD	—	No	Supported (V10L50 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
			Supported	Supported	Supported					DeviceMapper	—	No	Supported (V10L50 or later)	
			Supported	Supported	Supported	OCe14102	See Instruction for use	See Instruction for use	See Instruction for use	EMPD	—	No	Supported (V10L50 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
			Supported	Supported	Supported					DeviceMapper	—	No	Supported (V10L50 or later)	
						QLE8140/QLE8142	3.00	-	8.03.04.12.06.0-k0	EMPD	-	No	Planned 2	
			Supported	Planned 2	Supported					DeviceMapper	-	No	Supported (V10L11 or later)	
						QLE8150/QLE8152	3.00	-	8.03.04.12.06.0-k0	EMPD	-	No	Planned 2	
			Supported	Planned 2	Supported					DeviceMapper	-	No	Supported (V10L11 or later)	

LINUX	OS (Kernel) Note 2		Connection type			HBA				Path Failover	Cluster system	SAN boot	Model	Instruction for uses		
			via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6710/6720/ 6730, NOS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE Driver version				DX80 S2 DX90 S2			
Other Companies' Servers	RHEL 5 (x86 & x64) & Xen	Red Hat Enterprise Linux 5 (for x86 & Intel64) [2.6.18-238.el5] RHEL5.6	Supported	Supported	Supported	OCe10102 HP: NC551/NC551m CN1000E	4.02a7	2.703.397.1	8.2.0.96	EMPD	-	No	Supported (V10L11 or later)			
						QLE8140/QLE8142	3.00	-	8.03.01.05.05.06-k	EMPD	-	No	Planned 2			
			Supported	Planned 2	Supported					DeviceMapper	-	No	Supported (V10L11 or later)			
						QLE8150/QLE8152	3.00	-	8.03.01.05.05.06-k	EMPD	-	No	Planned 2			
			Supported	Planned 2	Supported					DeviceMapper	-	No	Supported (V10L11 or later)			
		Red Hat Enterprise Linux 5 (for x86 & Intel64) [2.6.18-194.el5] RHEL5.5	Supported	Supported	Supported	OCe10102 HP: NC551/NC551m CN1000E	4.02a7	2.703.397.1	8.2.0.76	EMPD	-	No	Supported (V10L11 or later)			
			Supported	Supported	Supported		4.01a3	2.702.348.8	8.2.0.76	EMPD	-	No	Supported (V10L11 or later)			
			Supported	Supported	Supported		DeviceMapper	-	No	Supported (V10L11 or later)						
			Supported		Supported	QLE8140/QLE8142	3.00	-	8.03.03.15.05.06-k	EMPD	-	No	Planned 2			
			Supported	Planned 2	Supported					DeviceMapper	-	No	Supported (V10L11 or later)			
			Supported		Supported	QLE8150/QLE8152	3.00	-	8.03.03.15.05.06-k	EMPD	-	No	Planned 2			
			Supported	Planned 2	Supported					DeviceMapper	-	No	Supported (V10L11 or later)			
	SuSE12 (x64/Xen)	SUSE Linux Enterprise Server 12 for AMD64/Intel 64 GA/SP1 (including xen/KVM)	Supported	Supported	Planned 2	Emulex OCe10102	See Instruction for use	See Instruction for use	See Instruction for use	EMPD	-	No	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.		
			Supported	Supported	Planned 2					DeviceMapper	-	No	Supported (V10L60 or later)			
			Supported	Supported	Planned 2	OCe14401B	See Instruction for use	See Instruction for use	See Instruction for use	EMPD	-	No	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.		
			Supported	Supported	Planned 2					DeviceMapper	-	No	Supported (V10L60 or later)			
			Supported	Supported	Planned 2	Emulex OCe14102	See Instruction for use	See Instruction for use	See Instruction for use	EMPD	-	No	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.		
			Supported	Supported	Planned 2					DeviceMapper	-	No	Supported (V10L60 or later)			
			Supported	Supported	Planned 2	Emulex OCe11102	See Instruction for use	See Instruction for use	See Instruction for use	EMPD	-	No	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.		
			Supported	Supported	Planned 2					DeviceMapper	-	No	Supported (V10L60 or later)			

LINUX	OS (Kernel) Note 2		Connection type			HBA				Path Failover	Cluster system	SAN boot	Model	Instruction for uses
			via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6710/6720/ 6730, NOS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE Driver version				DX80 S2 DX90 S2	
Other Companies' Servers	SuSE11 (x86 & x64) & Xen	SUSE Linux Enterprise Server 11 (SP4) Xen	Supported	Supported	Planned 2	OCe10102	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2	HP: NC551i/NC551m CN1000E				DeviceMapper	-	Yes	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	OCe14401B	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	OCe14102	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	OCe11102	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V10L60 or later)	
		SUSE Linux Enterprise Server 11 (SP3) Xen	Supported	Supported	Supported	OCe14401B	See Instruction for use	See Instruction for use	See Instruction for use	EMPD	—	No	Supported (V10L50 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
			Supported	Supported	Supported					DeviceMapper	—	No	Supported (V10L50 or later)	
			Supported	Supported	Supported	OCe14102	See Instruction for use	See Instruction for use	See Instruction for use	EMPD	—	No	Supported (V10L50 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
			Supported	Supported	Supported					DeviceMapper	—	No	Supported (V10L50 or later)	
		SUSE Linux Enterprise Server 11 (SP1) Xen	Supported	Supported	Supported	OCe10102	4.02a7	2.703.397.1	8.3.5.35	EMPD	-	No	Supported (V10L11 or later)	
										EMPD	-	No	Planned 2	
			Supported	Supported	Supported					DeviceMapper	-	No	Supported (V10L16 or later)	
			Supported	Supported	Supported	OCe14401B	See Instruction for use	See Instruction for use	See Instruction for use	EMPD	—	No	Supported (V10L50 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
			Supported	Supported	Supported					DeviceMapper	—	No	Supported (V10L50 or later)	
			Supported	Supported	Supported	OCe14102	See Instruction for use	See Instruction for use	See Instruction for use	EMPD	—	No	Supported (V10L50 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
			Supported	Supported	Supported					DeviceMapper	—	No	Supported (V10L50 or later)	
						QLE8140/QLE8142	3.00	-	8.03.04.14.11-K0	EMPD	-	No	Planned 2	
			Supported	Planned 2	Supported					DeviceMapper	-	No	Supported (V10L11 or later)	
						QLE8150/QLE8152	3.00	-	8.03.04.14.11-K0	EMPD	-	No	Planned 2	
			Supported	Planned 2	Supported					DeviceMapper	-	No	Supported (V10L11 or later)	
		SuSE10 (x86 & x64) & Xen	Supported	Supported	Supported	OCe10102	4.02a7	2.703.397.1	8.2.0.95	EMPD	-	No	Supported (V10L11 or later)	
										EMPD	-	No	Planned 2	
										DeviceMapper	-	No	Planned 2	
						QLE8140/QLE8142	3.00	-		EMPD	-	No	Planned 2	
										DeviceMapper	-	No	Planned 2	
						QLE8150/QLE8152	3.00	-		EMPD	-	No	Planned 2	
										DeviceMapper	-	No	Planned 2	

Note

iSCSI-FCoE(switch) connection : This sheet is for the system of connection of Server(CNA card) -- FCoE switch - ETERNUS iSCSI port.

LINUX	OS (Kernel) Note 2		Connection type			HBA				Path Failover	Cluster system	SAN boot	Model		Instruction for uses		
			via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6710/6720/ 6730, NOS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	Firmware versio	FC and FCoE Driver version				DX60 S2	DX80 S2/ DX90 S2			
PRIMERGY	RHEL 7 (x64/KVM)	Red Hat Enterprise Linux 7 (for Intel64) RHEL 7.0/7.1/7.2	Supported	Supported	Planned 2	PY-CN202 PG-292 S26361-F3592-L2	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.		
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)			
			Supported	Supported	Planned 2	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.		
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)			
			Supported	Supported	Planned 2	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.		
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)			
			Supported	Supported	Planned 2	PG-CND201	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.		
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)			
			Supported	Supported	Planned 2	PY-CND02 S26361-F3592-L532 BX92xS3 Onboard CNA	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.		
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)			
	RHEL 6 (x86 & Intel64)	Red Hat Enterprise Linux 6 (for x86 & Intel64) RHEL 6.4/6.5/6.6/6.7	Supported	Supported	Planned 2	PY-CN202 PG-292 S26361-F3592-L2	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.		
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)			
			Supported	Supported	Planned 2	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.		
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)			
			Supported	Supported	Planned 2	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.		
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)			
			Supported	Supported	Planned 2	PG-CND201	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.		
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)			
			Supported	Supported	Planned 2	PY-CND02 S26361-F3592-L532 BX92xS3 Onboard CNA	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.		
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)			
		Red Hat Enterprise Linux 6 (for x86 & Intel64) [2.6.32-71.el6] RHEL6.0 KVM	Supported	Planned 2	Planned 2	PG-292(BL)/PY-CN202 S26361-F3592-L2	4.02a7	2.703.397.1	2.103.397.0-1	EMPD (V2.0L22 or later)	—	No	Supported (V20L11 or later)	Planned 2			
			Supported	Planned 2	Planned 2	PG-292(BL)/PY-CN202 S26361-F3592-L2	4.02a7	2.703.397.1	2.103.397.0-1	DeviceMapper	—	No	Supported (V20L11 or later)	Planned 2			
			RHEL 5 (x86 & Intel64)	Red Hat Enterprise Linux 5 (for x86 & Intel64) [2.6.18-238.el5] RHEL5.6	Supported	Planned 2	Planned 2	PG-292(BL)/PY-CN202 S26361-F3592-L2	4.02a7	2.703.397.1	2.103.397.0-1	EMPD (V2.0L22 or later)	—	No	Supported (V20L11 or later)	Planned 2	
					Supported	Planned 2	Planned 2	PG-292(BL)/PY-CN202 S26361-F3592-L2	4.02a7	2.703.397.1	2.103.397.0-1	DeviceMapper	—	No	Supported (V20L11 or later)	Planned 2	

LINUX	OS (Kernel) Note 2		Connection type			HBA				Path Failover	Cluster system	SAN boot	Model		Instruction for uses
			via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6710/6720/ 6730, NOS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	firmware version	FC and FCoE Driver version				DX60 S2	DX80 S2/ DX90 S2	
PRIMERGY	SuSE12 (x86/Xen)	SUSE Linux Enterprise Server 12 for AMD64/Intel 64 GA/SP1 (including xen/KVM)	Supported	Planned 2	Planned 2	PY-CN202 PG-292 S26361-F3592-L2	See instruction for use	See instruction for use	See instruction for use	EMPD	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
			Supported	Planned 2	Planned 2					DeviceMapper		No	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Planned 2	Planned 2	PY-CN3A1/ PYBCN3A1P/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	See instruction for use	See instruction for use	See instruction for use	EMPD		No	Supported (V20L16 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
			Supported	Planned 2	Planned 2					DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Planned 2	Planned 2	PY-CN302/ PYBCN302P/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	See instruction for use	See instruction for use	See instruction for use	EMPD		No	Supported (V20L16 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
			Supported	Planned 2	Planned 2					DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
	SuSE11 (x86 & EM64T)	SUSE Linux Enterprise Server 11 (SP2/SP3/SP4) Xen	Supported	Supported	Planned 2	PY-CN202 PG-292 S26361-F3592-L2	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PY-CN3A1/ PYBCN3A1P/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PY-CN302/ PYBCN302P/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PG-CND201	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	PY-CND02 S26361-F3592-L532 BX92xS3 Onboard CNA	Note 1	Note 1	Note 1	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 1: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
		SUSE Linux Enterprise Server 11 (SP1)	Supported	Planned 2	Planned 2	PG-292(BL)/PY-CN202 S26361-F3592-L2	4.02a7	2.703.397.1	2.103.397.0-1	EMPD (V2.0L22 or later)	—	No	Supported (V20L11 or later)	Planned 2	
			Supported	Planned 2	Planned 2	PG-292(BL)/PY-CN202 S26361-F3592-L2	4.02a7	2.703.397.1	2.103.397.0-1	DeviceMapper	—	No	Supported (V20L11 or later)	Planned 2	
	SuSE10 (x86 & EM64T)	SUSE Linux Enterprise Server 10 (SP 3)	Supported	Planned 2	Planned 2	PG-292(BL)/PY-CN202 S26361-F3592-L2	4.02a7	2.703.397.1	2.103.397.0-1	EMPD (V2.0L22~)	—	No	Supported (V20L11 or later)	Planned 2	The number of LUNs is up to 16.
			Supported	Planned 2	Planned 2	PG-292(BL)/PY-CN202 S26361-F3592-L2	4.02a7	2.703.397.1	2.103.397.0-1	DeviceMapper	—	No	Supported (V20L11 or later)	Planned 2	The number of LUNs is up to 16.

LINUX	OS (Kernel) Note 2		Connection type			HBA				Path Failover	Cluster system	SAN boot	Model		Instruction for uses
			via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6710/6720/ 6730, NOS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE Driver version				DX60 S2	DX80 S2/ DX90 S2	
Other Companies' Servers	RHEL 7 (x64/KVM)	Red Hat Enterprise Linux 7 (for Intel64) RHEL 7.0/7.1/7.2	Supported	Supported	Planned 2	OCe10102	Note 2	Note 2	Note 2	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2	HP: NC551i/NC551m CN1000E				DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	OCe14401B	Note 2	Note 2	Note 2	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	OCe14102	Note 2	Note 2	Note 2	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	OCe11102	Note 2	Note 2	Note 2	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
	RHEL 6 (x86 & Intel64)	Red Hat Enterprise Linux 6 (for x86 & Intel64) RHEL 6.4/6.5/6.6/6.7	Supported	Supported	Planned 2	OCe10102	Note 2	Note 2	Note 2	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2	HP: NC551i/NC551m CN1000E				DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	OCe14401B	Note 2	Note 2	Note 2	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	OCe14102	Note 2	Note 2	Note 2	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	OCe11102	Note 2	Note 2	Note 2	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
		Red Hat Enterprise Linux 6 (for x86 & Intel64) [2.6.32-71.el6] RHEL6.0 KVM	Supported	Planned 2	Planned 2	OCe10102	4.02a7	2.703.397.1	2.103.397.0-1	EMPD (V2.0L22 or later)	—	No	Supported (V20L11 or later)	Planned 2	
			Supported	Planned 2	Planned 2	HP: NC551i/NC551m CN1000E	4.02a7	2.703.397.1	2.103.397.0-1	DeviceMapper	—	No	Supported (V20L11 or later)	Planned 2	
	RHEL 5 (x86 & Intel64)	Red Hat Enterprise Linux 5 (for x86 & Intel64) [2.6.32-71.el5] RHEL5.6	Supported	Planned 2	Planned 2	OCe10102	4.02a7	2.703.397.1	2.103.397.0-1	EMPD (V2.0L22 or later)	—	No	Supported (V20L11 or later)	Planned 2	
			Supported	Planned 2	Planned 2	HP: NC551i/NC551m CN1000E	4.02a7	2.703.397.1	2.103.397.0-1	DeviceMapper	—	No	Supported (V20L11 or later)	Planned 2	
	SuSE12 (x64/Xen)	SUSE Linux Enterprise Server 12 for AMD64/Intel 64 GA/SP1 (including xen/KVM)	Supported	Planned 2	Planned 2	OCe10102	See Instruction for use	See Instruction for use	See Instruction for use	EMPD	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
			Supported	Planned 2	Planned 2	HP: NC551i/NC551m CN1000E				DeviceMapper		No	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Planned 2	Planned 2	OCe14401B	See Instruction for use	See Instruction for use	See Instruction for use	EMPD		No	Supported (V20L16 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
			Supported	Planned 2	Planned 2					DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Planned 2	Planned 2	OCe14102	See Instruction for use	See Instruction for use	See Instruction for use	EMPD		No	Supported (V20L16 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
			Supported	Planned 2	Planned 2					DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
	SuSE11 (x86 & EM64T)	SUSE Linux Enterprise Server 11 (SP2/SP3/SP4) Xen	Supported	Supported	Planned 2	OCe10102	Note 2	Note 2	Note 2	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2	HP: NC551i/NC551m CN1000E				DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	OCe14401B	Note 2	Note 2	Note 2	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	OCe14102	Note 2	Note 2	Note 2	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
			Supported	Supported	Planned 2	OCe11102	Note 2	Note 2	Note 2	EMPD	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Note 2: Please use BIOS/firmware/Driver that are supported by the server.
			Supported	Supported	Planned 2					DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
		SUSE Linux Enterprise Server 11 (SP1)	Supported	Planned 2	Planned 2	OCe10102	4.02a7	2.703.397.1	2.103.397.0-1	EMPD (V2.0L22 or later)	—	No	Supported (V20L11 or later)	Planned 2	
			Supported	Planned 2	Planned 2	HP: NC551i/NC551m CN1000E	4.02a7	2.703.397.1	2.103.397.0-1	DeviceMapper	—	No	Supported (V20L11 or later)	Planned 2	
	SuSE10 (x86 & EM64T)	SUSE Linux Enterprise Server 10 (SP 3)	Supported	Planned 2	Planned 2	OCe10102	4.02a7	2.703.397.1	2.103.397.0-1	EMPD (V2.0L22 or later)	—	No	Supported (V20L11 or later)	Planned 2	The number of LUNs is up to 16.
			Supported	Planned 2	Planned 2	HP: NC551i/NC551m CN1000E	4.02a7	2.703.397.1	2.103.397.0-1	DeviceMapper	—	No	Supported (V20L11 or later)	Planned 2	The number of LUNs is up to 16.

Notes

- For each Operating System, Path Failover software, Cluster System software, Volume manager software, please apply necessary patches which are suggested by the product suppliers.
- PCI-bus on Bus column indicates PCI or PCI-X.
- For internal FC-switch of other vender's Blade server, please refer to "FC switch" by checking OEM vender's switch model.
- If multipath configuration is supported, then single path configuration is also supported. But multipath configuration may be mandatory because of cluster requirement.

Linux	OS (Kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMERGY	Oracle Linux6 (x86_64/x86)	Oracle Linux6.4 [Unbreakable Enterprise Kernel Release2] (x86_64/x86)	Direct/ via switch Note 1	PCI-bus/ PCI-Express	PY-FC221/PY-FC221L PYBFC221/PYBFC221L PY-FC222/PY-FC222L PYBFC222/PYBFC222L S26361-F4994-L501/ S26361-F4994-E1/ S26361-F4994-L502/ S26361-F4994-E2	-	-	OS bundled	Refer to "Switch pages" for supported FC switches.	DeviceMapper	Oracle RAC	Yes	Supported (V20L16 or later)	Supported (V10L47 or later)	Supported (V10L50 or later)	- When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.
			Direct/ via switch Note 1	PCI-bus/ PCI-Express	PY-FC012/ PYBFC012/PYBFC0122 S26361-F4994-E402/ S26361-F4994-L402	-	-	OS bundled		DeviceMapper	Oracle RAC	Yes	Supported (V20L16 or later)	Supported (V10L47 or later)	Supported (V10L50 or later)	- When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.
			Direct/ via switch	PCI-bus/ PCI-Express	PY-FC201/PY-FC201L PYBFC201/PYBFC201L PY-FC202/PY-FC202L PYBFC202/PYBFC202L S26361-F3961-L1/E1/L2/E2	-	-	OS bundled		DeviceMapper	Oracle RAC	Yes	Supported (V20L16 or later)	Supported (V10L47 or later)	Supported (V10L50 or later)	
			Direct/ via switch	PCI-bus/ PCI-Express	PY-FC211/PY-FC211L PYBFC211/PYBFC211L PY-FC212/PY-FC212L PYBFC212/PYBFC212L S26361-F3631-L1/E1/L2/E2	-	-	OS bundled		DeviceMapper	Oracle RAC	Yes	Supported (V20L16 or later)	Supported (V10L47 or later)	Supported (V10L50 or later)	
		Oracle Linux6.3 [Unbreakable Enterprise Kernel Release2] (x86_64/x86)	Direct/ via switch	PCI-bus/ PCI-Express	PY-FC201/PY-FC201L PYBFC201/PYBFC201L PY-FC202/PY-FC202L PYBFC202/PYBFC202L S26361-F3961-L1/E1/L2/E2	-	-	OS bundled	Refer to "Switch pages" for supported FC switches.	DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L31 or later)	Supported (V10L50 or later)	
			Direct/ via switch	PCI-bus/ PCI-Express	PY-FC211/PY-FC211L PYBFC211/PYBFC211L PY-FC212/PY-FC212L PYBFC212/PYBFC212L S26361-F3631-L1/E1/L2/E2	-	-	OS bundled		DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L31 or later)	Supported (V10L50 or later)	

Linux	OS (Kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
Other Companies' Servers	Oracle Linux6 (x86_64/x86)	Oracle Linux6.4 [Unbreakable Enterprise Kernel Release2] (x86_64/x86)	Direct/ via switch Note 1	PCI-bus/ PCI-Express	LPe16000B/LPe16002B /LPe16000/LPe16002	-	-	OS bundled	Refer to "Switch pages" for supported FC switches.	DeviceMapper	Oracle RAC	Yes	Supported (V20L16 or later)	Supported (V10L47 or later)	Supported (V10L50 or later)	When upgrading HBA firmware, please follow the procedure below. 1. Disconnect FC cable 2. Upgrade HBA firmware 3. Power off server 4. Reconnect FC cable 5. Power on server
			Direct/ via switch	PCI-bus/ PCI-Express	LPe12000/LPe12002/LPe1250 HP: AJ762A/AJ763A IBM: 42D0485/42D0494	2.12a6 or later	2.00A4 or later	OS bundled		DeviceMapper	Oracle RAC	Yes	Supported (V20L16 or later)	Supported (V10L47 or later)	Supported (V10L50 or later)	
			Direct/ via switch	PCI-bus/ PCI-Express	QLE2560/QLE2562 HP: Ak344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Multi-boot 2.10 or later	-	OS bundled		DeviceMapper	Oracle RAC	Yes	Supported (V20L16 or later)	Supported (V10L47 or later)	Supported (V10L50 or later)	
		Oracle Linux6.3 [Unbreakable Enterprise Kernel Release2] (x86_64/x86)	Direct/ via switch	PCI-bus/ PCI-Express	LPe12000/LPe12002/LPe1250 HP: AJ762A/AJ763A IBM: 42D0485/42D0494	2.12a6 or later	2.00A4 or later	OS bundled	Refer to "Switch pages" for supported FC switches.	DeviceMapper	Oracle RAC	No	Supported (V20L16 or later)	Supported (V10L31 or later)	Supported (V10L50 or later)	When upgrading HBA firmware, please follow the procedure below. 1. Disconnect FC cable 2. Upgrade HBA firmware 3. Power off server 4. Reconnect FC cable 5. Power on server
			Direct/ via switch	PCI-bus/ PCI-Express	QLE2560/QLE2562 HP: Ak344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Multi-boot 2.10 or later	-	OS bundled		DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L31 or later)	Supported (V10L50 or later)	
			Direct/ via switch	PCI-Express	Brocade 1860	3.1.0.1	3.1.0.1	OS bundled		DeviceMapper	-	Yes	Supported (V20L16 or later)	Supported (V10L40 or later)	Supported (V10L50 or later)	
		Oracle Linux6.2 [Unbreakable Enterprise Kernel Release2] (x86_64/x86)	Direct/ via switch	PCI-bus/ PCI-Express	LPe12000/LPe12002/LPe1250 HP: AJ762A/AJ763A IBM: 42D0485/42D0494	2.12a6 or later	2.00A4 or later	OS bundled	Refer to "Switch pages" for supported FC switches.	DeviceMapper	Oracle RAC	No	Supported (V20L16 or later)	Supported (V10L31 or later)	Supported (V10L50 or later)	When upgrading HBA firmware, please follow the procedure below. 1. Disconnect FC cable 2. Upgrade HBA firmware 3. Power off server 4. Reconnect FC cable 5. Power on server
			Direct/ via switch	PCI-bus/ PCI-Express	QLE2560/QLE2562 HP: Ak344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Multi-boot 2.10 or later	-	OS bundled		DeviceMapper	Oracle RAC	No	Supported (V20L16 or later)	Supported (V10L31 or later)	Supported (V10L50 or later)	
		Oracle Linux6.2 [Unbreakable Enterprise Kernel Release1] (x86_64/x86)	Direct/ via switch	PCI-bus/ PCI-Express	LPe12000/LPe12002/LPe1250 HP: AJ762A/AJ763A IBM: 42D0485/42D0494	2.12a6 or later	2.00A4 or later	OS bundled	Refer to "Switch pages" for supported FC switches.	DeviceMapper	Oracle RAC	No	Supported (V20L16 or later)	Supported (V10L22 or later)	Supported (V10L50 or later)	When upgrading HBA firmware, please follow the procedure below. 1. Disconnect FC cable 2. Upgrade HBA firmware 3. Power off server 4. Reconnect FC cable 5. Power on server
			Direct/ via switch	PCI-bus/ PCI-Express	QLE2560/QLE2562 HP: Ak344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Multi-boot 2.10 or later	-	OS bundled		DeviceMapper	Oracle RAC	No	Supported (V20L16 or later)	Supported (V10L22 or later)	Supported (V10L50 or later)	
		Oracle Linux6.1 [Unbreakable Enterprise Kernel Release1] (x86_64/x86)	Direct/ via switch	PCI-bus/ PCI-Express	LPe12000/LPe12002/LPe1250 HP: AJ762A/AJ763A IBM: 42D0485/42D0494	2.12a6 or later	2.00A4 or later	OS bundled	Refer to "Switch pages" for supported FC switches.	DeviceMapper	Oracle RAC	No	Supported (V20L16 or later)	Supported (V10L22 or later)	Supported (V10L50 or later)	When upgrading HBA firmware, please follow the procedure below. 1. Disconnect FC cable 2. Upgrade HBA firmware 3. Power off server 4. Reconnect FC cable 5. Power on server
			Direct/ via switch	PCI-bus/ PCI-Express	QLE2560/QLE2562 HP: Ak344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Multi-boot 2.10 or later	-	OS bundled		DeviceMapper	Oracle RAC	No	Supported (V20L16 or later)	Supported (V10L22 or later)	Supported (V10L50 or later)	

Note 1: When connecting with ETHERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.

Linux	OS (Kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
Other Companies' Servers	Oracle Linux5 (x86_64/x86)	Oracle Linux5.10 [Unbreakable Enterprise Kernel Release2] (x86_64/x86)	Direct/ via switch	PCI-bus/ PCI-Express	LPe12000/LPe12002/LPe1250 HP: AJ762A/AJ763A IBM: 42D0485/42D0494	2.12a6 or later	2.00A4 or later	OS bundled	Refer to "Switch pages" for supported FC switches.	DeviceMapper	Oracle RAC	No	Supported (V20L10 or later)	Supported (V10L47 or later)	Supported (V10L50 or later)	When upgrading HBA firmware, please follow the procedure below. 1. Disconnect FC cable 2. Upgrade HBA firmware 3. Power off server 4. Reconnect FC cable 5. Power on server
			Direct/ via switch	PCI-bus/ PCI-Express	QLE2560/QLE2562 HP: AK344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Multi-boot 2.10 or later	-	OS bundled	Refer to "Switch pages" for supported FC switches.	DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L47 or later)	Supported (V10L50 or later)	
			Direct/ via switch	PCI-bus/ PCI-Express	LPe12000/LPe12002/LPe1250 HP: AJ762A/AJ763A IBM: 42D0485/42D0494	2.12a6 or later	2.00A4 or later	OS bundled	Refer to "Switch pages" for supported FC switches.	DeviceMapper	Oracle RAC	No	Supported (V20L10 or later)	Supported (V10L47 or later)	Supported (V10L50 or later)	
			Direct/ via switch	PCI-bus/ PCI-Express	QLE2560/QLE2562 HP: AK344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Multi-boot 2.10 or later	-	OS bundled	Refer to "Switch pages" for supported FC switches.	DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L47 or later)	Supported (V10L50 or later)	
		Oracle Linux5.8 [Unbreakable Enterprise Kernel Release2] (x86_64/x86)	Direct/ via switch	PCI-bus/ PCI-Express	LPe12000/LPe12002/LPe1250 HP: AJ762A/AJ763A IBM: 42D0485/42D0494	2.12a6 or later	2.00A4 or later	OS bundled	Refer to "Switch pages" for supported FC switches.	DeviceMapper	Oracle RAC	No	Supported (V20L10 or later)	Supported (V10L40 or later)	Supported (V10L50 or later)	When upgrading HBA firmware, please follow the procedure below. 1. Disconnect FC cable 2. Upgrade HBA firmware 3. Power off server 4. Reconnect FC cable 5. Power on server
			Direct/ via switch	PCI-bus/ PCI-Express	QLE2560/QLE2562 HP: AK344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Multi-boot 2.10 or later	-	OS bundled		DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L40 or later)	Supported (V10L50 or later)	
			Direct/ via switch	PCI-bus/ PCI-Express	LPe12000/LPe12002/LPe1250 HP: AJ762A/AJ763A IBM: 42D0485/42D0494	2.12a6 or later	2.00A4 or later	OS bundled		DeviceMapper	Oracle RAC	No	Supported (V20L10 or later)	Supported (V10L40 or later)	Supported (V10L50 or later)	
			Direct/ via switch	PCI-bus/ PCI-Express	QLE2560/QLE2562 HP: AK344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Multi-boot 2.10 or later	-	OS bundled		DeviceMapper	-	Yes	Supported (V20L10 or later)	Supported (V10L40 or later)	Supported (V10L50 or later)	
		Oracle Linux5.7 [Unbreakable Enterprise Kernel Release1] (x86_64/x86)	Direct/ via switch	PCI-bus/ PCI-Express	LPe12000/LPe12002/LPe1250 HP: AJ762A/AJ763A IBM: 42D0485/42D0494	2.12a6 or later	2.00A4 or later	OS bundled	Refer to "Switch pages" for supported FC switches.	DeviceMapper	Oracle RAC	No	Supported (V20L16 or later)	Supported (V10L22 or later)	Supported (V10L50 or later)	When upgrading HBA firmware, please follow the procedure below. 1. Disconnect FC cable 2. Upgrade HBA firmware 3. Power off server 4. Reconnect FC cable 5. Power on server
			Direct/ via switch	PCI-bus/ PCI-Express	QLE2560/QLE2562 HP: AK344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Multi-boot 2.10 or later	-	OS bundled		DeviceMapper	Oracle RAC	No	Supported (V20L16 or later)	Supported (V10L22 or later)	Supported (V10L50 or later)	
		Oracle Linux5.6 [Unbreakable Enterprise Kernel Release1] (x86_64/x86)	Direct/ via switch	PCI-bus/ PCI-Express	LPe12000/LPe12002/LPe1250 HP: AJ762A/AJ763A IBM: 42D0485/42D0494	2.12a6 or later	2.00A4 or later	OS bundled	Refer to "Switch pages" for supported FC switches.	DeviceMapper	Oracle RAC	No	Supported (V20L16 or later)	Supported (V10L22 or later)	Supported (V10L50 or later)	When upgrading HBA firmware, please follow the procedure below. 1. Disconnect FC cable 2. Upgrade HBA firmware 3. Power off server 4. Reconnect FC cable 5. Power on server
			Direct/ via switch	PCI-bus/ PCI-Express	QLE2560/QLE2562 HP: AK344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Multi-boot 2.10 or later	-	OS bundled		DeviceMapper	Oracle RAC	No	Supported (V20L16 or later)	Supported (V10L22 or later)	Supported (V10L50 or later)	

Notes

- For each Operating System, Path Failover software, please apply necessary patches which are suggested by the product suppliers.
- For HBA's BIOS and driver, please download the listed version from the RIS (Remote Install Service) website.
Go to the website <https://global.fujitsu-ssw.ne.jp/ris/default.htm>, then choose "PRIMERGY HBA drivers for ETERNUS connection" at "Firmware Programs" on the left hand side of the frame.
- When enabling Jumbo Frame setting, please disable "Flow Control" of LAN switch.
- If multipath configuration is supported, then single path configuration is also supported. But multipath configuration may be mandatory because of cluster requirement.
- When connecting ETERNUS disk array and server on iSCSI via LAN switch, it is recommended that the speed of network adapter on server and ETERNUS iSCSI host adapter should be matched.
 - Recommended example : 10Gbps LAN adapter - LAN switch - 10Gbps iSCSI host interface of ETERNUS

If the speed of network adapter on server and ETERNUS iSCSI host adapter are not matched, then transmission error may occur due to traffic congestion.

- Not recommended example : 10Gbps LAN adapter - LAN switch - 1Gbps host interface of ETERNUS.

Linux	OS [Kernel]		Connection type	HBA	Driver version	Path Failover	Cluster system	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	Oracle Linux6 (x86_64/x86)	Oracle Linux6.4 [Unbreakable Enterprise Kernel Release2] (x86_64/x86)	Direct / via switch	PY-LA234 S26361-F3611-L501	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
				PY-LA244/PY-LA232 S26361-F3739-L501 S26361-F3740-L501	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
				PY-LA101/PY-LA101L PYBLA101/PYBLA101L S26361-F3516-L1/L201 S26361-F3516-E1/E201	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
				PY-LA111 S26361-F3242-L1	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
				PY-LA222 S26361-F3610-L502	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
				PY-LA242/PYBLA242/ PYBLA242L S26361-F3629-L502/E2/E202	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
				PY-LA252/PYBLA252 /PYBLA252L S26361-F3752-L502/E2/E202	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
				On Board LAN	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
	Oracle Linux6 (x86_64/x86)	Oracle Linux6.3 [Unbreakable Enterprise Kernel Release2] (x86_64/x86)	Direct / via switch	PY-LA234 S26361-F3611-L501	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
				PY-LA244/PY-LA232 S26361-F3739-L501 S26361-F3740-L501	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
				PY-LA101/PY-LA101L PYBLA101/PYBLA101L S26361-F3516-L1/L201 S26361-F3516-E1/E201	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
				PY-LA111 S26361-F3242-L1	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
				PY-LA222 S26361-F3610-L502	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
				PY-LA242/PYBLA242/ PYBLA242L S26361-F3629-L502/E2/E202	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
				PY-LA252/PYBLA252 /PYBLA252L S26361-F3752-L502/E2/E202	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
				On Board LAN	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	

Linux	OS [Kernel]		Connection type	HBA	Driver version	Path Follower	Cluster system	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
Other Companies' Servers	Oracle Linux6 (x86_64/x86)	Oracle Linux6.4 [Unbreakable Enterprise Kernel Release2] (x86_64/x86)	Direct / via switch	Intel ® PRO/1000 PT /Intel ® PRO/1000 PF	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
				Intel ® Ethernet Server Adapter X520-DA2	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
				Intel ® Gigabit CTDesktop Adapter	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
		Oracle Linux6.3 [Unbreakable Enterprise Kernel Release2] (x86_64/x86)	Direct / via switch	Intel ® PRO/1000 PT /Intel ® PRO/1000 PF	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
				Intel ® Ethernet Server Adapter X520-DA2	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
				Intel ® Gigabit CTDesktop Adapter	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
	Oracle Linux5 (x86_64/x86)	Oracle Linux5.10 [Unbreakable Enterprise Kernel Release2] (x86_64/x86)	Direct / via switch	Intel ® PRO/1000 PT /Intel ® PRO/1000 PF	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
				Intel ® Ethernet Server Adapter X520-DA2	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
				Intel ® Gigabit CTDesktop Adapter	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
		Oracle Linux5.9 [Unbreakable Enterprise Kernel Release2] (x86_64/x86)	Direct / via switch	Intel ® PRO/1000 PT /Intel ® PRO/1000 PF	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
				Intel ® Ethernet Server Adapter X520-DA2	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
				Intel ® Gigabit CTDesktop Adapter	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
		Oracle Linux5.8 [Unbreakable Enterprise Kernel Release2] (x86_64/x86)	Direct / via switch	Intel ® PRO/1000 PT /Intel ® PRO/1000 PF	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
				Intel ® Ethernet Server Adapter X520-DA2	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
				Intel ® Gigabit CTDesktop Adapter	OS bundled	DeviceMapper	-	No	Supported (V20L16 or later)	Supported (V10L50 or later)	

Notes

- For each Operating System, Path Failover software, Cluster System software, Volume manager software, please apply necessary patches which are suggested by the product suppliers.
- PCI-bus on Bus column indicates PCI or PCI-X.
- For internal FC-switch of other vender's Blade server, please refer to "FC switch" by checking OEM vender's switch model.
- If multipath configuration is supported, then single path configuration is also supported. But multipath configuration may be mandatory because of cluster requirement.

Linux	OS (Kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model		Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	Asianux Server4 (x86_64/x86)	Asianux Server4 SP1 [2.6.32-131.12.1.el6] (x86/x86_64)	Direct/ via switch	PCI-bus/ PCI-Express	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PY-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	5.12a2	2.00A4	OS bundled	Refer to "Switch pages" for supported FC switches.	DeviceMapper	-	No	Supported (V20L11 or later)	Supported (V10L20 or later)	
			Direct/ via switch	PCI-bus/ PCI-Express	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	3.0	5.03.16	OS bundled		DeviceMapper	-	No	Supported (V20L11 or later)	Supported (V10L20 or later)	

Linux	OS (Kernel)		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model		Instruction for use
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	
Other Companies' Servers	Asianux Server4 (x86_64/x86)	Asianux Server4 SP1 [2.6.32-131.12.1.el6] (x86/x86_64)	Direct/ via switch	PCI-bus/ PCI-Express	LPe12000/LPe12002/LPe1250 HP: AJ762A/AJ763A IBM: 42D0485/42D0494	5.12a2	2.00A4	OS bundled	Refer to "Switch pages" for supported FC switches.	DeviceMapper	-	No	Supported (V20L11 or later)	Supported (V10L20 or later)	
			Direct/ via switch	PCI-bus/ PCI-Express	QLE2560/QLE2562 HP: Ak344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	3.0	5.03.16	OS bundled		DeviceMapper	-	No	Supported (V20L11 or later)	Supported (V10L20 or later)	

Notes

- For each Operating System, Path Failover software, Cluster System software, please apply necessary patches which are suggested by the product suppliers.
- When enabling Jumbo Frame setting, please disable "Flow Control" of LAN switch.
- If multipath configuration is supported, then single path configuration is also supported. But multipath configuration may be mandatory because of cluster requirement.
- When connecting ETERNUS disk array and server on iSCSI via LAN switch, it is recommended that the speed of network adapter on server and ETERNUS iSCSI host adapter should be matched.
- Recommended example : 10Gbps LAN adapter - LAN switch - 10Gbps iSCSI host interface of ETERNUS

If the speed of network adapter on server and ETERNUS iSCSI host adapter are not matched, then transmission error may occur due to traffic congestion.

- Not recommended example : 10Gbps LAN adapter - LAN switch - 1Gbps host interface of ETERNUS.

iSCSI native connection

Linux	OS [Kernel]		Connection type	HBA	Driver version	Path Failover	Cluster system	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	Asianux Server4 (x86_64/x86)	Asianux Server4 SP1 [2.6.32-131.12.1.el6] (x86/x86_64)	Direct/ via switch	PG-LND203/ S26361-F3331-L1	OS bundled	DeviceMapper	-	No	Supported (V20L11 or later)	Supported (V10L25 or later)	
			Direct/ via switch	PG-284G/PG-284GL /PG-2841G(L)/ PGB284G/PGB284GL PY-LA242/PYBLA242/ PYBLA242L/ S26361-F3555-L501	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L30 or later)	

Linux	OS [Kernel]		Connection type	HBA	Driver version	Path Failover	Cluster system	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
Other Companies' Servers	Asianux Server4 (x86_64/x86)	Asianux Server4 SP1 [2.6.32-131.12.1.el6] (x86/x86_64)	Direct/ via switch	Intel 82575EB	OS bundled	DeviceMapper	-	No	Supported (V20L11 or later)	Supported (V10L25 or later)	
			Direct/ via switch	Intel Ethernet X520	OS bundled	DeviceMapper	-	No	Supported (V20L10 or later)	Supported (V10L30 or later)	

VMware FC connection [Edition 147 : January 24, 2018]													
Notes - VMware Multi-Pathing plug-in for ETERNUS is referred as "VAMP" in this document. Supported vSphere edition is "Enterprise" and "Enterprise Plus". http://www.fujitsu.com/global/support/products/computing/storage/download/vmware-mp-plug-in.html													
Server	VMware vSphere 6.5	HBA				Connected Type	Switch	Path Failover	SAN boot	Model			Instruction for use
		model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMEQUEST 2000 series	VMware vSphere 6.5 (ESXi6.5) GA	MC-0JFC3* MC-0JFC9*	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware which are supported by PRIMEQUEST 2000 series.
		MC-0JFC4* MC-0JFC4*	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch		VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
		MC-0JFC5* MC-0JFC6*	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch		VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
		MC-0JFC7* MC-0JFC8*	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch		VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
		MC-0JFCB* MC-0JFCC*	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch		VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
PRIMERGY	VMware vSphere 6.5 (ESXi6.5) GA	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201 S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Planned 2	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
		PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch		VMware standard	Planned 2	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
		S26361-F4994-L501/E1 S26361-F4994-L502/E2 PY-FC221/PY-FC221L PYBFC221/PYBFC221L PY-FC222/PY-FC222L PYBFC222/PYBFC222L	See Instruction for use	See Instruction for use	VMware standard	via switch	VMware standard	Planned 2	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.	
		PY-FC012/ PYBFC012/PYBFC0122 S26361-F4994-E402/ S26361-F4994-L402	See Instruction for use	See Instruction for use	VMware standard	via switch	VMware standard	Planned 2	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.	
		S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L PG-FC204/PG-FC204L PY-FC201/PY-FC201L PYBFC201/PYBFC201L PY-FC202/PY-FC202L PYBFC202/PYBFC202L	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Planned 2	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
		S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L PG-FC206/PG-FC206L PY-FC211/PY-FC211L PYBFC211/PYBFC211L PY-FC212/PY-FC212L PYBFC212/PYBFC212L	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch	VMware standard	Planned 2	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.	
		MC-FC82E PG-FC0202/PY-FC0202 S26361-F3874-L1	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch	VMware standard	Planned 2	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.	
		Other Companies' Servers	VMware vSphere 6.5 (ESXi6.5) GA	LPe16000B/LPe16002B/ LPe16000/LPe16002	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)
QLE2690/ QLE2692/ QLE2694	See Instruction for use			See Instruction for use	VMware standard	Direct/via switch	VMware standard	Yes		Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
QLE2670/QLE2672 QLE2660/QLE2662	See Instruction for use			See Instruction for use	VMware standard	Direct/via switch	VMware standard	Yes		Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
LPe12000/LPe12002/LPe1250	See Instruction for use			See Instruction for use	VMware standard	Direct/via switch	VMware standard	Yes		Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
QLE2560/QLE2562	See Instruction for use			See Instruction for use	VMware standard	Direct/via switch	VMware standard	Yes		Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	

Server	VMware vSphere 6.0	HBA				Connected Type	Switch	Path Failover	SAN boot	Model			Instruction for use
		model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMEQUEST 2000 series	VMware vSphere 6.0 (ESXi 6.0) GA/U1/U2	MC-0JFC3* MC-0JFC9* MC-0JFC4* MC-0JFCA*	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware which are supported by PRIMEQUEST 2000 series.
								VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
		MC-0JFC7* MC-0JFC8*	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch		VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware which are supported by PRIMEQUEST 2000 series.
								VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
		MC-0JFC5* MC-0JFC6*	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch		VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware which are supported by PRIMEQUEST 2000 series.
								VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
		MC-0JFCB* MC-0JFCC*	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch		VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware which are supported by PRIMEQUEST 2000 series.
								VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
PRIMERGY	VMware vSphere 6.0 (ESXi 6.0) GA/U1/U2	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201 S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
								VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
		PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
								VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
		S26361-F4994-L501/E1 S26361-F4994-L502/E2 PY-FC221/PY-FC221L PYBFC221/PYBFC221L PY-FC222/PY-FC222L PYBFC222/PYBFC222L	See Instruction for use	See Instruction for use	VMware standard	via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
								VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
		PY-FC012/ PYBFC012/PYBFC0122 S26361-F4994-E402/ S26361-F4994-L402	See Instruction for use	See Instruction for use	VMware standard	via switch		VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
								VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
		S26361-F3961-L1/L201/ S26361-F3961-L20L202/ PG-FC203/PG-FC203L PG-FC204/PG-FC204L PY-FC201/PY-FC201L PYBFC201/PYBFC201L PY-FC202/PY-FC202L PYBFC202/PYBFC202L	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
								VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
		S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L PG-FC206/PG-FC206L PY-FC211/PY-FC211L PYBFC211/PYBFC211L PY-FC212/PY-FC212L PYBFC212/PYBFC212L	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
								VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
		MC-FC82E PG-FC0202/PY-FC0202 S26361-F3874-L1	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
								VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	
Other Companies' Servers	VMware vSphere 6.0 (ESXi 6.0) GA/U1/U2	All FC-HBAs certified by VMware are supported. Please refer to VMware HCL for usable FC-HBAs.	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	We recommend to use the latest BIOS/Firmware versions of HBA supported by server vendor.

Server	VMware vSphere 5	HBA				Connected Type	Switch	Path Failover	SAN boot	Model			Instruction for use
		model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMEQUEST 2000 series (PQ2800E2/PQ2800L2/ PQ2400E2/PQ2400L2/ PQ2400S2/ PQ2400S2 Lite/ PQ2800B2/ PQ2800E/PQ2800L/ PQ2400E/PQ2400L/ PQ2400S/ PQ2400S Lite/ PQ2800B only)	VMware vSphere 5.5 (ESXi 5.5) Update2	MC-0JFC3* MC-0JFC9*	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware which are supported by PRIMEQUEST 2000 series.
		MC-0JFC4* MC-0JFCA*						VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
		MC-0JFC7* MC-0JFC8*	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch		VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware which are supported by PRIMEQUEST 2000 series.
								VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
		MC-0JFC5* MC-0JFC6*	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch		VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware which are supported by PRIMEQUEST 2000 series.
								VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
		MC-0JFCB* MC-0JFCC*	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch		VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	Please use BIOS/Firmware which are supported by PRIMEQUEST 2000 series.
								VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
PRIMEQUEST 2000 series (PQ2800E/PQ2800L/ PQ2400E/PQ2400L/ PQ2400S/ PQ2400S Lite/ PQ2800B only)	VMware vSphere 5.5 (ESXi 5.5)	MC-0JFC3* MC-0JFC9*	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	Please use BIOS/Firmware which are supported by PRIMEQUEST 2000 series.
		MC-0JFC4* MC-0JFCA*						VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	
		MC-0JFC7* MC-0JFC8*	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch		VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	Please use BIOS/Firmware which are supported by PRIMEQUEST 2000 series.
								VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	
PRIMEQUEST 1000 series (PQ1400S2/ 1400E2/1400L2/ 1800E2/1800L2 only)	VMware vSphere 5.5 (ESXi 5.5)	MC-0JFC11/MC-0JFC1L/ MC-0JFC21/MC-0JFC2L	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch	Refer to "Switch pages" for supported FC switches.	VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	Please use BIOS/Firmware which are supported by PRIMEQUEST 1000 series.
								VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	
PRIMERGY	VMware vSphere 5.5 (ESXi 5.5) Update 2/Update 3	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201 S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
								VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	
		PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
								VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	
		S26361-F4994-L501/E1 S26361-F4994-L502/E2 PY-FC221/PY-FC221L PYBFC221/PYBFC221L PY-FC222/PY-FC222L PYBFC222/PYBFC222L	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY. - When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.
								VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	
	VMware vSphere 5.5 (ESXi 5.5) GA/Update 1/ Update 2/Update 3	PY-FC012/ PYBFC012/PYBFC0122 S26361-F4994-E402/ S26361-F4994-L402	See Instruction for use	See Instruction for use	VMware standard	via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
								VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	
		S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L PG-FC204/PG-FC204L PY-FC201/PY-FC201L PYBFC201/PYBFC201L PY-FC202/PY-FC202L PYBFC202/PYBFC202L	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch		VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
								VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	
		S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L PG-FC206/PG-FC206L PY-FC211/PY-FC211L PYBFC211/PYBFC211L PY-FC212/PY-FC212L PYBFC212/PYBFC212L	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch		VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
								VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	
		MC-FC82E PG-FC0202/PY-FC002 S26361-F3874-L1	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch		VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
								VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L52 or later)	Supported (V10L52 or later)	
Other Companies' Servers	VMware vSphere 5.5 (ESXi 5.5) Update 1/Update 2/ Update 3	All FC-HBAs certified by VMware are supported. Please refer to VMware HCL for usable FC-HBAs.	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	We recommend to use the latest BIOS/Firmware versions of HBA supported by server vendor.
	VMware vSphere 5.5 (ESXi 5.5)	All FC-HBAs certified by VMware are supported. Please refer to VMware HCL for usable FC-HBAs.	See Instruction for use	See Instruction for use	VMware standard	Direct/via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Supported (V10L50 or later)	We recommend to use the latest BIOS/Firmware versions of HBA supported by server vendor.

Server	VMware vSphere 5	HBA				Connected Type	Switch	Path Follower	SAN boot	Model			Instruction for use
		model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMEQUEST 2000 series (PQ2800E/PQ2800L/ PQ2400E/PQ2400L/ PQ2400S/ PQ2400S Lite/ PQ2800B only)	VMware vSphere 5.1 (ESXi 5.1) Update2	MC-0JFC3* MC-0JFC9*	See Instruction for use	See Instruction for use	VMware standard	Direct/Via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	- Please use BIOS/Firmware which are supported by PRIMEQUEST 2000 series.
		MC-0JFC4* MC-0JFCA*						VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	
		MC-0JFC7* MC-0JFC8*	See Instruction for use	See Instruction for use	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	- Please use BIOS/Firmware which are supported by PRIMEQUEST 2000 series.
								VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L54 or later)	Supported (V10L54 or later)	
PRIMEQUEST 1000 series (PQ1400S/ 1400E/1400L/ 1800E/1800L only)	VMware vSphere 5.1 (ESXi 5.1)	MC-0JFC11/ MC-0JFC21	-	-	VMware standard	Direct/Via switch	-	VMware standard	Yes	Planned 2	Planned 2	N.A.	
PRIMEQUEST 1000 series (PQ1400S2/ 1400E2/1400L2/ 1800E2/1800L2 only)	VMware vSphere 5.1 (ESXi 5.1) Update1	MC-0JFC11/MC-0JFC11/ MC-0JFC21/MC-0JFC21	5.10a3 or later 6.30a1 or later	1.11a5 or later 2.01a4 or later	VMware standard VMware standard	Direct/Via switch Direct/Via switch	Refer to "Switch pages" for supported FC switches.	VAMP 1.1.0 or later VMware standard	Yes Yes	Supported (V20L16 or later) Supported (V20L16 or later)	Supported (V10L52 or later) Supported (V10L35 or later)	N.A. N.A.	
	VMware vSphere 5.1 (ESXi 5.1)	MC-0JFC11/ MC-0JFC21	5.10a3 or later 6.30a1 or later	1.11a5 or later 2.01a4 or later	VMware standard VMware standard	Direct/Via switch Direct/Via switch		VAMP 1.1.0 or later VMware standard	Yes Yes	Supported (V20L16 or later) Supported (V20L16 or later)	Supported (V10L52 or later) Supported (V10L35 or later)	N.A. N.A.	
PRIMERGY	VMware vSphere 5.1 (ESXi 5.1) Update 2/Update 3	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201 S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202	See Instruction for use	See Instruction for use	VMware standard	Direct/Via switch Note 1	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
								VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
		PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	See Instruction for use	See Instruction for use	VMware standard	Direct/Via switch Note 1	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
								VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
							Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	N.A.	
	VMware vSphere 5.1 (ESXi 5.1) Update 1/Update 2/ Update 3	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	2.12a6 or later	2.82a4 or later	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	N.A.	
		S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L PG-FC204/PG-FC204L PY-FC201/PY-FC201L PYBFC201/PYBFC201L PY-FC202/PY-FC202L PYBFC202/PYBFC202L	5.12a2 or later	2.00a4 or later	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	N.A.	
		S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L PG-FC206/PG-FC206L PY-FC211/PY-FC211L PYBFC211/PYBFC211L PY-FC212/PY-FC212L PYBFC212/PYBFC212L	2.16 or later	-	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	N.A.	
		PG-FC201	3.03a11 or later	2.82a4 or later	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	N.A.	
		MC-FC82E PG-FC202/PY-FC202 S26361-F3874-L1	3.11a5 or later	2.00a4 or later	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	N.A.	

Server	VMware vSphere 5	HBA				Connected Type	Switch	Path Failover	SAN boot	Model			Instruction for use
		model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMERGY	VMware vSphere 5.1 (ESXi 5.1)	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	2.12a6 or later	2.82a4 or later	VMware standard	Direct/Via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	N.A.	
		S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L PG-FC204/PG-FC204L PY-FC201/PY-FC201L PYBFC201/PYBFC201L PY-FC202/PY-FC202L PYBFC202/PYBFC202L	5.12a2 or later	2.00a4 or later	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	N.A.	
		S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L PG-FC206/PG-FC206L PY-FC211/PY-FC211L PYBFC211/PYBFC211L PY-FC212/PY-FC212L PYBFC212/PYBFC212L	2.16 or later	-	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	N.A.	
		PG-FC201	3.03a11 or later	2.82a4 or later	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	N.A.	
		MC-FC82E PG-FC202/PY-FC202 S26361-F3874-L1	3.11a5 or later	2.00a4 or later	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	N.A.	
Other Companies' Servers	VMware vSphere 5.1 (ESXi 5.1) Update 2/Update 3	QLE2690/ QLE2692/ QLE2694	See Instruction for use	See Instruction for use	VMware standard	Direct/Via switch Note 1	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
								VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
		QLE2670/QLE2672 QLE2660/QLE2662	See Instruction for use	See Instruction for use	VMware standard	Direct/Via switch Note 1	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
								VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	Supported (V10L60 or later)	
	VMware vSphere 5.1 (ESXi 5.1) Update 1/Update 2/ Update 3	LP11000/LP11002/LP1150 LPe11000/LPe11002/LPe1150	2.12a6 or later	2.82a4 or later	VMware standard	Direct/Via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L12 or later)	Supported (V10L31 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L12 or later)	Supported (V10L31 or later)	N.A.	
		LPe12000/LPe12002/LPe1250	5.12a2 or later	2.00a4 or later	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L12 or later)	Supported (V10L31 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L12 or later)	Supported (V10L31 or later)	N.A.	
		QLA2460/QLA2462/ QLE2460/QLE2462/QLE2464 FC1143/FC1243/ QMH2462(403619-B21) IBM: 39R6525/39R6527 39M5894/39M5895 26R0890/26R0884	-	-	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L12 or later)	Supported (V10L31 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L12 or later)	Supported (V10L31 or later)	N.A.	
		QLE2560/QLE2562 HP: AK344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.16 or later	-	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L12 or later)	Supported (V10L31 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L12 or later)	Supported (V10L31 or later)	N.A.	
	VMware vSphere 5.1 (ESXi 5.1)	LP11000/LP11002/LP1150 LPe11000/LPe11002/LPe1150	2.12a6 or later	2.82a4 or later	VMware standard	Direct/Via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L12 or later)	Supported (V10L31 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L12 or later)	Supported (V10L31 or later)	N.A.	
		LPe12000/LPe12002/LPe1250	5.12a2 or later	2.00a4 or later	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L12 or later)	Supported (V10L31 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L12 or later)	Supported (V10L31 or later)	N.A.	
		QLA2460/QLA2462/ QLE2460/QLE2462/QLE2464 FC1143/FC1243/ QMH2462(403619-B21) IBM: 39R6525/39R6527 39M5894/39M5895 26R0890/26R0884	-	-	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L12 or later)	Supported (V10L31 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L12 or later)	Supported (V10L31 or later)	N.A.	
		QLE2560/QLE2562 HP: AK344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.16 or later	-	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L12 or later)	Supported (V10L31 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L12 or later)	Supported (V10L31 or later)	N.A.	

Server	VMware vSphere 5	HBA				Connected Type	Switch	Path Failover	SAN boot	Model			Instruction for use
		model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMEQUEST 1000 series (PQ1400S/ 1400E/1400L/ 1800E/1800L only)	VMware vSphere 5.0 (ESXi 5.0) Update1/Update2	MC-0JFC11/ MC-0JFC21	4.12a7 or later	2.00Aa4 or later	VMware standard	Direct/Via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L12 or later)	Supported (V10L25 or later)	-	
	VMware vSphere 5.0 (ESXi 5.0)	MC-0JFC11/MC-0JFC21	4.00a1 or later	1.11a5 or later	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L12 or later)	Supported (V10L25 or later)	N.A.	
PRIMEQUEST 1000 series (PQ1400S2/ 1400E2/1400L2/ 1800E2/1800L2 only)	VMware vSphere 5.0 (ESXi 5.0) Update1/Update2	MC-0JFC11/ MC-0JFC21	5.10a3 or later	1.11a5 or later	VMware standard	Direct/Via switch		VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L52 or later)	-	
			4.12a7 or later	2.00Aa4 or later	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L12 or later)	Supported (V10L25 or later)	-	
	VMware vSphere 5.0 (ESXi 5.0)	MC-0JFC11/MC-0JFC21	5.10a3 or later	1.11a5 or later	VMware standard	Direct/Via switch		VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L52 or later)	-	
			4.00a1 or later	1.11a5 or later	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L12 or later)	Supported (V10L25 or later)	N.A.	
PRIMERGY	VMware vSphere 5.0 (ESXi 5.0) Update3	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	-	-	VMware standard	Direct/Via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	-	
					VMware standard	Direct/Via switch		VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	-	
		S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L PG-FC204/PG-FC204L PY-FC201/PY-FC201L PYBFC201/PYBFC201L PY-FC202/PY-FC202L PYBFC202/PYBFC202L	-	-	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	-	
					VMware standard	Direct/Via switch		VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	-	
		S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L PG-FC206/PG-FC206L PY-FC211/PY-FC211L PYBFC211/PYBFC211L PY-FC212/PY-FC212L PYBFC212/PYBFC212L	-	-	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	-	
					VMware standard	Direct/Via switch		VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	-	
		PG-FC201	-	-	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	-	
					VMware standard	Direct/Via switch		VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	-	
		PG-FC202 PY-FC202	-	-	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	-	
					VMware standard	Direct/Via switch		VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	-	
	VMware vSphere 5.0 (ESXi 5.0) Update1/Update2	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	2.12a6 or later	2.82a4 or later	VMware standard	Direct/Via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	N.A.	
		S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L PG-FC204/PG-FC204L PY-FC201/PY-FC201L PYBFC201/PYBFC201L PY-FC202/PY-FC202L PYBFC202/PYBFC202L	5.12a2 or later	2.00a4 or later	VMware standard	Direct/Via switch		VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	N.A.	
		S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L PG-FC206/PG-FC206L PY-FC211/PY-FC211L PYBFC211/PYBFC211L PY-FC212/PY-FC212L PYBFC212/PYBFC212L	2.16 or later	-	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	N.A.	
		S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L PG-FC206/PG-FC206L PY-FC211/PY-FC211L PYBFC211/PYBFC211L PY-FC212/PY-FC212L PYBFC212/PYBFC212L	3.03a11 or later	2.82a4 or later	VMware standard	Direct/Via switch		VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	N.A.	
		S26361-F3306-L601 PG-FC201	3.03a11 or later	2.82a4 or later	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	N.A.	
		MC-FC82E PG-FC202/PY-FC202	3.11a5 or later	2.00a4 or later	VMware standard	Direct/Via switch		VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	N.A.	

Server	VMware vSphere 5	HBA				Connected Type	Switch	Path Failover	SAN boot	Model			Instruction for use
		model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMERGY	VMware vSphere 5.0 (ESXi 5.0)	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	2.12a6 or later	2.82a4 or later	VMware standard	Direct/Via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	No	Supported (V20L10 or later)	Supported (V10L16 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	N.A.	
		S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201L/PY-FC201L	5.12a2 or later	2.00a4 or later	VMware standard	Direct/Via switch		VMware standard	No	Supported (V20L10 or later)	Supported (V10L16 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	N.A.	
		S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16 or later	-	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	N.A.	
		S26361-F3306-L601 PG-FCD201	3.03a11 or later	2.82a4 or later	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	N.A.	
		MC-FC82E PG-FCD202/PY-FCD02	3.11a5 or later	2.00a4 or later	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	N.A.	
Other Companies' Servers	VMware vSphere 5.0 (ESXi 5.0) Update3	LP11000/LP11002/LP1150 LPe11000/LPe11002/LPe1150 HP: FC2243/FC2143/FC2142SR/ FC2242SR/LPe1105-HP IBM: LP1105-BC	2.12a6 or later	2.82a4 or later	VMware standard	Direct/Via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	-	
		LPe12000/LPe12002/LPe1250 HP: AJ762A/AJ763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	VMware standard	Direct/Via switch			Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	-	
		QLA2460/QLA2462/ QLE2460/QLE2462/QLE2464 HP: FC1142SR/FC1242SR/ FC1143/FC1243/ QMH2462(403619-B21) IBM: 39R6525/39R6527 39M5894/39M5895 26R0890/26R0884	-	-	VMware standard	Direct/Via switch			Yes	Supported (V20L10 or later)	Supported (V10L20 or later)	-	
		QLE2560/QLE2562 HP: AK344A/AJ764A QMH2562/ QMH2572 IBM: 42D0501/42D0510	2.16 or later	-	VMware standard	Direct/Via switch			Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	-	
	VMware vSphere 5.0 (ESXi 5.0) Update1/Update2	LP11000/LP11002/LP1150 LPe11000/LPe11002/LPe1150	2.12a6 or later	2.82a4 or later	VMware standard	Direct/Via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	N.A.	
		LPe12000/LPe12002/LPe1250	5.12a2 or later	2.00a4 or later	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	N.A.	
		QLA2460/QLA2462/ QLE2460/QLE2462/QLE2464	-	-	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L20 or later)	N.A.	
	VMware vSphere 5.0 (ESXi 5.0)	QLE2560/QLE2562 HP: AK344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.16 or later	-	VMware standard	Direct/Via switch		VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	N.A.	
		LP11000/LP11002/LP1150 LPe11000/LPe11002/LPe1150	2.12a6 or later	2.82a4 or later	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	N.A.	
		LPe12000/LPe12002/LPe1250	5.12a2 or later	2.00a4 or later	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	N.A.	
		QLA2460/QLA2462/ QLE2460/QLE2462	-	-	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L20 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L20 or later)	N.A.	
		QLE2560/QLE2562 HP: AK344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.16 or later	-	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	N.A.	
								VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	N.A.	

Server	VMware vSphere 4	HBA				Connected Type	Switch	Path Failover	SAN boot	Model			Instruction for use
		model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMEQUEST 1000 series (PQ1400S2 Lite/ 1400S2/1400E2/ 1400L2/1800E2/ 1800L2 only)	VMware vSphere 4.1 (ESX 4.1) Update3	MC-0JFC11/ MC-0JFC21	-	-	VMware standard	Direct/Via switch	Refer to "Switch pages" for supported FC switches.	VAMP 1.1.0 or later	Yes	Supported (V20L16 or later)	Supported (V10L52 or later)	-	
		MC-0JFC11/ MC-0JFC21	-	-	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L52 or later)	-	
	VMware vSphere 4.1 (ESX 4.1) Update 1/Update 2	MC-0JFC11/MC-0JFC21	-	-	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L52 or later)	-	
		MC-0JFC11/MC-0JFC21	-	-	VMware standard	Direct/Via switch		VMware standard	Yes	Planned 2	Supported (V10L11 or later)	N.A.	
PRIMEQUEST 1000 series (PQ1400S/ 1400E/1400L/ 1800E/1800L only)	VMware vSphere 4.1 (ESX 4.1) Update1/Update2/ Update 3	MC-0JFC11/MC-0JFC21	-	-	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
	VMware vSphere 4.1 (ESX 4.1)	MC-0JFC11/MC-0JFC21	-	-	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
PRIMERGY	VMware vSphere 4.1 (ESX 4.1/ESXi 4.1) Update 1/Update 2/ Update 3	S26361-F3141-L10/L210/ PG-FC107	-	-	VMware standard	Direct/Via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	No	Supported (V20L10 or later)	Planned 2	N.A.	When using PG-FC205/PG-FC205U/PG-FC206/PG-FC206L on VMware vSphere 4.1(ESX4.1/ESXi4.1), please download the driver from VMware web site and apply to ESX. The driver should be used is "VMware ESX/ESXi 4.x Driver CD for QLogic FC-FCoE Driver for 2400/2500/8100/8200 Series Fibre Channel and Converged Network Adapters" version "841.k1.16.2-1vmw". Please follow the downloaded README file for apply method. Driver download URL http://downloads.vmware.com/pd/info/datacenter_downloads/vmware_vsphere_4/4_0/drivers_tools
		S26361-F3141-L1/ PG-FC201	-	-	VMware standard	Direct/Via switch		VAMP 1.1.0 or later	No	Supported (V20L10 or later)	Planned 2	N.A.	
		S26361-F3141-L1/ PG-FC201	-	-	VMware standard	Direct/Via switch		VMware standard	No	Supported (V20L10 or later)	Planned 2	N.A.	
		S26361-F3141-L1/ PG-FC201	-	-	VMware standard	Direct/Via switch		VAMP 1.1.0 or later	No	Supported (V20L10 or later)	Planned 2	N.A.	
		S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	-	-	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	-	-	VMware standard	Direct/Via switch		VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203U/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	-	-	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205U/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.1 or later	-	841.k1.16.2-1vmw or later	Direct/Via switch		VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		S26361-F3306-L601 PG-FC201	-	-	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		S26361-F3306-L601 PG-FC201	-	-	VMware standard	Direct/Via switch		VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		MC-FC82E PG-FC202/PY-FC202	-	-	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		MC-FC82E PG-FC202/PY-FC202	-	-	VMware standard	Direct/Via switch		VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	

Server	VMware vSphere 4	HBA				Connected Type	Switch	Path Failover	SAN boot	Model			Instruction for use
		model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMERGY	VMware vSphere 4.1 (ESX 4.1/ESXi 4.1)	S26361-F3141-L10/L210/ PG-FC107	-	-	VMware standard	Direct/Via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	No	Supported (V20L10 or later)	Planned 2	N.A.	
		S26361-F3141-L1/ PG-FC201	-	-	VMware standard	Direct/Via switch		VAMP 1.1.0 or later	No	Supported (V20L10 or later)	Planned 2	N.A.	
		S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	-	-	VMware standard	Direct/Via switch		VMware standard	No	Supported (V20L10 or later)	Planned 2	N.A.	
		S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	-	-	VMware standard	Direct/Via switch		VAMP 1.1.0 or later	No	Supported (V20L10 or later)	Planned 2	N.A.	
		S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	-	-	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	-	-	VMware standard	Direct/Via switch		VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.1 or later	-	841.k1.16.2-1vmw or later	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.1 or later	-	841.k1.16.2-1vmw or later	Direct/Via switch		VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		S26361-F3306-L601 PG-FCD201	-	-	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		MC-FC82E PG-FCD202/PY-FC202	-	-	VMware standard	Direct/Via switch		VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
Other Companies' Servers	VMware vSphere 4.1 (ESX 4.1/ESXi 4.1) Update 1/Update 2/ Update 3	LP11000/LP11002/LP1150 LPe11000/LPe11002/LPe1150	-	-	VMware standard	Direct/Via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	When using QLE2560/QLE2562 on VMware vSphere 4.1(ESX4.1/ESXi4.1), please download the driver from VMware web site and apply to ESX. The driver should be used is "VMware ESX/ESXi 4.x Driver CD for QLogic FC-FCoE Driver for 2400/2500/8100/8200 Series Fibre Channel and Converged Network Adapters" version "841.k1.16.2-1vmw". Please follow the downloaded README file for apply method. Driver download URL http://downloads.vmware.com/jsp/info/datacenter_downloads/vmware_vsphere_4/4_0/drivers_tools
		LPe12000/LPe12002/LPe1250	-	-	VMware standard	Direct/Via switch		VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		QLA2460/QLA2462/ QLE2460/QLE2462			VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		QLA2460/QLA2462/ QLE2460/QLE2462			VMware standard	Direct/Via switch		VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		LP10000/LP1050	-	-	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Planned 2	N.A.	
		LP1050ex	-	-	VMware standard	Direct/Via switch		VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Planned 2	N.A.	
	VMware vSphere 4.1 (ESX 4.1/ESXi 4.1)	LP11000/LP11002/LP1150 LPe11000/LPe11002/LPe1150	-	-	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		LPe12000/LPe12002/LPe1250	-	-	VMware standard	Direct/Via switch		VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		QLE2560/QLE2562 HP: AK344A/AJ764A QMH2562/ QWH2572 IBM: 42D0501/42D0510	2.1 or later	-	841.k1.16.2-1vmw	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		QLE2560/QLE2562 HP: AK344A/AJ764A QMH2562/ QWH2572 IBM: 42D0501/42D0510	2.1 or later	-	841.k1.16.2-1vmw	Direct/Via switch		VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		QLE2560/QLE2562 HP: AK344A/AJ764A QMH2562/ QWH2572 IBM: 42D0501/42D0510	2.1 or later	-	841.k1.16.2-1vmw	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Planned 2	N.A.	
		QLE2560/QLE2562 HP: AK344A/AJ764A QMH2562/ QWH2572 IBM: 42D0501/42D0510	2.1 or later	-	841.k1.16.2-1vmw	Direct/Via switch		VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Planned 2	N.A.	
	VMware vSphere 4.1 (ESX 4.1/ESXi 4.1)	LP11000/LP11002/LP1150 LPe11000/LPe11002/LPe1150	-	-	VMware standard	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		LPe12000/LPe12002/LPe1250	-	-	VMware standard	Direct/Via switch		VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		QLE2560/QLE2562 HP: AK344A/AJ764A QMH2562/ QWH2572 IBM: 42D0501/42D0510	2.1 or later	-	841.k1.16.2-1vmw	Direct/Via switch		VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		QLE2560/QLE2562 HP: AK344A/AJ764A QMH2562/ QWH2572 IBM: 42D0501/42D0510	2.1 or later	-	841.k1.16.2-1vmw	Direct/Via switch		VAMP 1.1.0 or later	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	

Server	VMware vSphere 4	HBA				Connected Type	Switch	Path Fallover	SAN boot	Model			Instruction for use
		model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMEQUEST 1000 series (PQ1400S/ 1400E/1400L/ 1800E/1800L only)	VMware vSphere 4 (ESX 4.0) Update 1/Update 2	MC-0JFC11/MC-0JFC21	4.00a1 or later	1.11a5 or later	VMware standard	Direct/via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	SAN boot of ESXi 4.0 is not supported.
PRIMERGY	VMware vSphere 4 (ESX 4.0/ESXi 4.0) Update 1/ Update 2/ Update 3/ Update 4	S26361-F3141-L1/L210/ PG-FC107	-	-	VMware standard	Direct/via switch			No	Supported (V20L10 or later)	Planned 2	N.A.	
		S26361-F3141-L1/ PG-FC201	-	-	VMware standard	Direct/via switch			No	Supported (V20L10 or later)	Planned 2	N.A.	
		S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	-	-	VMware standard	Direct/via switch			Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		S26361-F3023-L1/ PG-FCD101/PG-FCD102	-	-	VMware standard	Direct/via switch			Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		S26361-F3306-L601 PG-FCD201	-	-	VMware standard	Direct/via switch			Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	-	-	VMware standard	Direct/via switch			Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.1 or later	-	841.k1.16.2-1vmw	Direct/via switch			Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		MC-FC82E PG-FCD202/PY-FCD02	-	-	VMware standard	Direct/via switch			Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	-	-	VMware standard	Direct/via switch			Yes	Supported (V20L10 or later)	Planned 2	N.A.	
		LP11000/LP11002/LP1150 LPe11000/LPe11002/LPe1150	-	-	VMware standard	Direct/via switch			Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
Other Companies' Servers		LPe12000/LPe12002/LPe1250	-	-	VMware standard	Direct/via switch			Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		QLA2460/QLA2462/ QLE2460/QLE2462	-	-	VMware standard	Direct/via switch			Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	N.A.	
		QLE2560/QLE2562 HP: A1344A/A1376AA QMH2562/QMH2572 IBM: 42D0501/42D0510	2.1 or later	-	841.k1.16.2-1vmw or later	Direct/via switch			Yes	Supported (V20L10 or later)	Planned 2	N.A.	

Server	VMware vSphere 4	HBA				Connected Type	Switch	Path Failover	SAN boot	Model			Instruction for use
		model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMERGY	VMware vSphere 4 (ESX 4.0/ESXi 4.0)	S26361-F3141-L10/L210/ PG-FC107	-	-	VMware standard	Direct/via switch	Refer to "Switch pages" for supported FC switches.	VMware standard	No	Supported (V20L10 or later)	N.A.	N.A.	DX80 8Gbps model can not be connected. Please use 4Gbps model in case of DX80. SAN boot of ESXi 4.0 is not supported.
		S26361-F3141-L1/ PG-FC201	-	-	VMware standard	Direct/via switch			No	Supported (V20L10 or later)	N.A.	N.A.	
		S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	-	-	VMware standard	Direct/via switch			Yes	Supported (V20L10 or later)	N.A.	N.A.	
		S26361-F3023-L1/ PG-FCD101/PG-FCD102	-	-	VMware standard	Direct/via switch			Yes	Supported (V20L10 or later)	N.A.	N.A.	
		S26361-F3306-L601 PG-FCD201	-	-	VMware standard	Direct/via switch			Yes	Supported (V20L10 or later)	N.A.	N.A.	
		S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	-	-	VMware standard	Direct/via switch			Yes	Supported (V20L10 or later)	N.A.	N.A.	
		S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.1 or later	-	841.k1.16.2-1vmw	Direct/via switch			Yes	Supported (V20L10 or later)	N.A.	N.A.	DX80 8Gbps model can not be connected. Please use 4Gbps model in case of DX80. SAN boot of ESXi 4.0 is not supported. When using PG-FC205/PG-FC205L/PG-FC206L on VMware vSphere 4.1(ESX4.0/ESXi4.0), please download the driver from VMware web site and apply to ESX. The driver should be used is "VMware ESX/ESXi 4.x Driver CD for QLogic FC-FCoE Driver for 2400/2500/8100/8200 Series Fibre Channel and Converged Network Adapters" version "841.k1.16.2-1vmw". Please follow the downloaded README file for apply method. Driver download URL http://downloads.vmware.com/pd/info/datacenter_downloads/vmware_vsphere_4/4_0lndrivers_tool
		MC-FC82E PG-FCD202/PY-FCD02	-	-	VMware standard	Direct/via switch			Yes	Supported (V20L10 or later)	N.A.	N.A.	DX80 8Gbps model can not be connected. Please use 4Gbps model in case of DX80. SAN boot of ESXi 4.0 is not supported.
Other Companies' Servers	LP10000/LP10000DC/ LP1050/LP1050DC/ LP1050Ex/LP10000ExDC	-	-	VMware standard	Direct/via switch	Yes	Supported (V20L10 or later)	N.A.	N.A.				
	LP11000/LP11002/LP1150 LPe11000/LPe11002/LPe1150	-	-	VMware standard	Direct/via switch	Yes	Supported (V20L10 or later)	N.A.	N.A.				
	LPe12000/LPe12002/LPe1250	-	-	VMware standard	Direct/via switch	Yes	Supported (V20L10 or later)	N.A.	N.A.				
	QLA2460/QLA2462/ QLE2460/QLE2462	-	-	VMware standard	Direct/via switch	Yes	Supported (V20L10 or later)	N.A.	N.A.				
	QLE2560/QLE2562 HP: AK344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.1 or later	-	841.k1.16.2-1vmw or later	Direct/via switch	Yes	Supported (V20L10 or later)	N.A.	N.A.	DX80 8Gbps model can not be connected. Please use 4Gbps model in case of DX80. SAN boot of ESXi 4.0 is not supported. When using QLE2560/QLE2562 on VMware vSphere 4.1(ESX4.0/ESXi4.0), please download the driver from VMware web site and apply to ESX. The driver should be used is "VMware ESX/ESXi 4.x Driver CD for QLogic FC-FCoE Driver for 2400/2500/8100/8200 Series Fibre Channel and Converged Network Adapters" version "841.k1.16.2-1vmw". Please follow the downloaded README file for apply method. Driver download URL http://downloads.vmware.com/pd/info/datacenter_downloads/vmware_vsphere_4/4_0lndrivers_tools			

Backup software support by v Storage APIs for Data Protection(VADP)

- Only VMFS area can be backuped when using VMware Infrastructure 3.5
There is no restriction for backup area when using VMware vSphere 4 or above.
- If backup Servers platform is either Windows or RHEL under PRIMERGY environment, please check support & usage condition to Fujitsu Web site or Fujitsu sales personnel.
- When using backup Servers under condition other than above, please check support condition and configuration to VMware and Servers vendor, also check by backup software manual.

ETERNUS Multipath driver support on VMware Consolidated Backup (VCB) connection

Server	VMware ESX	VCB Proxy server OS		VCB	EMPD	Model		Instruction for uses
						DX60 S2	DX80 S2 DX90 S2	
PRIMERGY & other vendors Servers	ESX 4.0/ESX 4.0 update1/update2 ESXi 4.0/ESXi 4.0 update1/update2	Windows 2003 (32-bit version)	SP1/SP2/ R2/R2 SP2	1.5U1/1.5U2	V2.0L14 or later	Supported (V20L10 or later)	Supported (V10L11 or later)	- Single path connection is supported (no ETERNUS Multipath Driver) - For compatibility of VCB, please refer to "VMware Consolidated Backup Compatibility"
		Windows 2003 x64 Editions (64-bit version)	SP2/ R2/R2 SP2	1.5U1/1.5U2	V2.0L14 or later	Supported (V20L10 or later)	Supported (V10L11 or later)	- Single path connection is supported (no ETERNUS Multipath Driver) - For compatibility of VCB, please refer to "VMware Consolidated Backup Compatibility"
		Windows 2008 (32-bit version)	Standard/ Enterprise, without SP	1.5U1/1.5U2	V2.0L14 or later	Supported (V20L10 or later)	Supported (V10L11 or later)	- Single path connection is supported (no ETERNUS Multipath Driver) - For compatibility of VCB, please refer to "VMware Consolidated Backup Compatibility" - Server Core(command line) installations of Windows Server 2008 Standard/Enterprise/Datacenter are not supported.
		Windows 2008 x64 Editions (64-bit version)	Standard/ Enterprise, without SP	1.5U1/1.5U2	V2.0L14 or later	Supported (V20L10 or later)	Supported (V10L11 or later)	- Single path connection is supported (no ETERNUS Multipath Driver) - For compatibility of VCB, please refer to "VMware Consolidated Backup Compatibility" - Server Core(command line) installations of Windows Server 2008 Standard/Enterprise/Datacenter are not supported.
	ESX 4.1/ ESXi 4.1	Windows 2003 (32-bit version)	SP1/SP2/ R2/R2 SP2	1.5U2	V2.0L14 or later	Supported (V20L10 or later)	Supported (V10L11 or later)	- Single path connection is supported (no ETERNUS Multipath Driver) - For compatibility of VCB, please refer to "VMware Consolidated Backup Compatibility"
		Windows 2003 x64 Editions (64-bit version)	SP2/ R2/R2 SP2	1.5U2	V2.0L14 or later	Supported (V20L10 or later)	Supported (V10L11 or later)	- Single path connection is supported (no ETERNUS Multipath Driver) - For compatibility of VCB, please refer to "VMware Consolidated Backup Compatibility"
		Windows 2008 (32-bit version)	Standard/ Enterprise, without SP	1.5U2	V2.0L14 or later	Supported (V20L10 or later)	Supported (V10L11 or later)	- Single path connection is supported (no ETERNUS Multipath Driver) - For compatibility of VCB, please refer to "VMware Consolidated Backup Compatibility" - Server Core(command line) installations of Windows Server 2008 Standard/Enterprise/Datacenter are not supported.
		Windows 2008 x64 Editions (64-bit version)	Standard/ Enterprise, without SP	1.5U2	V2.0L14 or later	Supported (V20L10 or later)	Supported (V10L11 or later)	- Single path connection is supported (no ETERNUS Multipath Driver) - For compatibility of VCB, please refer to "VMware Consolidated Backup Compatibility" - Server Core(command line) installations of Windows Server 2008 Standard/Enterprise/Datacenter are not supported.

Notes	- "Flow control" of LAN switch should be disabled.
	- When connecting ETERNUS disk array and server on iSCSI via LAN switch, it is recommended that the speed of network adapter on server and ETERNUS iSCSI host adapter should be matched. - Recommended example : 10Gbps LAN adapter - LAN switch - 10Gbps iSCSI host interface of ETERNUS
If the speed of network adapter on server and ETERNUS iSCSI host adapter are not matched, then transmission error may occur due to traffic congestion.	
- Not recommended example : 10Gbps LAN adapter - LAN switch - 1Gbps host interface of ETERNUS.	
- VMware Multi-Pathing plug-in for ETERNUS is referred as "VAMP" in this document.	
Supported vSphere edition is "Enterprise" and "Enterprise Plus".	
http://www.fujitsu.com/global/support/products/computing/storage/download/vmware-mp-plug-in.html	

iSCSI native connection

Server	VMware vSphere 6.5	iSCSI Initiator type	Connected Type	NIC or HBA	HBA's Driver	Software Initiator	Path Failover	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMEQUEST 2000 series	VMware vSphere 6.5 (ESXi 6.5) GA	Software Initiator	LAN switch (See Instruction for use)	NIC and CNA for PRIMEQUEST 2000	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
PRIMERGY	VMware vSphere 6.5 (ESXi 6.5) GA	Software Initiator	LAN switch (See Instruction for use)	NIC and CNA for PRIMERGY	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
Other Companies' Servers	VMware vSphere 6.5 (ESXi 6.5) GA	Software Initiator	LAN switch (See Instruction for use)	NIC / CNA *4	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L60 or later)	

*4 Supported only for NICs that are certified by VMware

Server	VMware vSphere 6.0	iSCSI Initiator type	Connected Type	NIC or HBA	HBA's Driver	Software Initiator	Path Failover	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMEQUEST 2000 series	VMware vSphere 6.0 (ESXi 6.0) GA/U1/U2	Software Initiator	LAN switch (See Instruction for use)	LAN port (1GbE) on IO unit(MC-3HUX31) (On Board)	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L60 or later)	Please disable "Flow Control" of LAN switch. - If each port of LAN switch can be set individually, then disable both port connected to ETERNUS and port connected to server. If each port of LAN switch can not be set individually, then disable entire LAN switch. If the switch has separate setting for send and receive, then disable "Flow Control" for both send and receive. - When multiple LAN switches are cascaded, please apply this to the switches which are directly connected to ETERNUS.
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
			LAN switch (See Instruction for use)	LAN port (10GbE) on IO unit(MC-3HUX41) (On Board)	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
			LAN switch (See Instruction for use)	MC-QJGE81/MCXQJGE81/ MC-QJGE82/MCXQJGE82/ MC-QJGE8L	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
			LAN switch (See Instruction for use)	MC-QJGE91/MCXQJGE91/ MC-QJGE92/MCXQJGE92/ MC-QJGE9L	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
			LAN switch (See Instruction for use)	MC-QJXE31/MCXQJXE31/ MC-QJXE32/MCXQJXE32/ MC-QJXE3L	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
			LAN switch (See Instruction for use)	MC-QJXE41/MCXQJXE41/ MC-QJXE42/MCXQJXE42/ MC-QJXE4L	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
			LAN switch (See Instruction for use)	Dual channel LAN card (1GbE) MC-QJGEA1/MCXQJGEA1/ MC-QJGEA2/MC-QJGEAL	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
			LAN switch (See Instruction for use)	Quad channel LAN card (1GbE) MC-QJGEB1/MCXQJGEB1/ MC-QJGEB2/MC-QJGEBL	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L60 or later)	

Server	VMware vSphere 6.0	iSCSI Initiator type	Connected Type	NIC or HBA	HBA's Driver	Software Initiator	Path Failover	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	VMware vSphere6.0 (ESXi 6.0) GA/U1/U2	Software Initiator	LAN switch (See Instruction for use)	PG-288/PG-288U/PY-LA111/ PG-289/289U/ PG-286L/286L1/ PG-286L1/PG-286L11/ PG-289L/PG-289L1/ PG-LND201/PG-LND203 PY-LAD04/PYBLAD041/ PYBLAD042 S26361-F3331-L1/E1	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L50 or later)	Please disable "Flow Control" of LAN switch. - If each port of LAN switch can be set individually, then disable both port connected to ETERNUS and port connected to server. If each port of LAN switch can not be set individually, then disable entire LAN switch. If the switch has separate setting for send and receive, then disable "Flow Control" for both send and receive. - When multiple LAN switches are cascaded, please apply this to the switches which are directly connected to ETERNUS. For availability of on-board LAN, please refer to system configuration chart of PRIMERGY or ask sales representative.
			LAN switch (See Instruction for use)	PG-287J/PY-LA234 S26361-F3611-L501	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
			LAN switch (See Instruction for use)	PG-285/PG-285L/ PGB285/PGB285L PY-LA10J/PY-LA101L PYBLA10J/PYBLA101L S26361-F3516-L1/L201 S26361-F3516-E1/E201	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
			LAN switch (See Instruction for use)	PG-286J/PG2862/ PGB2862L/PY-LA222 S26361-F3610-L502	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
			LAN switch (See Instruction for use)	PG-284G/PG-284GL /PG-284G(L)/ PGB284G/PGB284GL PY-LA242 S26361-F3629-L502/E2/E202	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
			LAN switch (See Instruction for use)	PY-LA264/PYBLA264/ PYBLA264L PY-LA262/PYBLA262/ PYBLA262L S26361-F4610-L504/E4/E204 S26361-F4610-L502/E2/E202	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
			LAN switch (See Instruction for use)	PY-LA232/PYBLA232U PY-LA244/PYBLA244U S26361-F3740-L501/E701 S26361-F3739-L501/E701	VMware standard	VMware standard	VMware standard	No	- *2	- *2	
			LAN switch (See Instruction for use)	PY-LA252 /PYBLA252 /PYBLA252L S26361-F3752-L502/E2/E202	VMware standard	VMware standard	VMware standard	No	- *2	- *2	
			LAN switch (See Instruction for use)	PG-LND204/PGBLND204/ PGBLND2042 PY-LAD12 PYBLAD121 PYBLAD122 S26361-F3997-L1/E1	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
			LAN switch (See Instruction for use)	On board LAN	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
			LAN switch (See Instruction for use)	PY-CN202/PY-CN202L PYBCN202/PYBCN202L S26361-F3592-L2L202/E2/E202	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
			LAN switch (See Instruction for use)	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
			LAN switch (See Instruction for use)	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
		Hardware Initiator	LAN switch (See Instruction for use)	On board CNA(BE3) PY-CND02 PYBCND021 PYBCND022 S26361-F3592-L532/E532	VMware standard	Hardware Initiator	VMware standard	Yes	-	Supported (V10L50 or later)	
			LAN switch (See Instruction for use)				VAMP 1.1.0 or later	Yes	-	Supported (V10L50 or later)	
Other Companies' Servers	VMware vSphere6.0 (ESXi 6.0) GA/U1/U2	Software Initiator	LAN switch (See Instruction for use)	NIC / CNA *4	VMware standard	VMware standard	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Please disable "Flow Control" of LAN switch. - If each port of LAN switch can be set individually, then disable both port connected to ETERNUS and port connected to server. If each port of LAN switch can not be set individually, then disable entire LAN switch. If the switch has separate setting for send and receive, then disable "Flow Control" for both send and receive. - When multiple LAN switches are cascaded, please apply this to the switches which are directly connected to ETERNUS.
		Hardware Initiator	LAN switch (See Instruction for use)	OCe11102	VMware standard	Hardware Initiator	VMware standard	Yes	-	Supported (V10L52 or later)	

*2 : VMware certification is not obtained yet.

*4 Supported only for NICs that are certified by VMware

Server	VMware vSphere 5	iSCSI Initiator type	Connected Type	NIC or HBA	HBA's Driver	Software Initiator	Path Failover	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMEQUEST 2000 series (PQ2800E2/PQ2800L2/ PQ2400E2/PQ2400L2/ PQ2400S2/ PQ2400S2 Lite/ PQ2800B2/ PQ2800E/PQ2800L/ PQ2400E/PQ2400L/ PQ2400S/ PQ2400S Lite/ PQ2800B only)	VMware vSphere 5.5 (ESXi 5.5) Update2	Software Initiator	LAN switch	LAN port (1GbE) on IO unit(MC-3HUX31) (On Board)	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
			LAN switch	LAN port (10GbE) on IO unit(MC-3HUX41) (On Board)	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
			LAN switch	Dual channel LAN card (1GbE) MC-0JGEA*	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
			LAN switch	Quad channel LAN card (1GbE) MC-0JGEB*	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
			LAN switch	Dual channel LAN card (10GbE) MC-0JXE3*	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
			LAN switch	Dual channel LAN card (10GbE) MC-0JXE4*	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
			LAN switch	Dual channel CNA (10Gbps) MC-0JCE6*	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L60 or later)	
PRIMEQUEST 2000 series (PQ2800E/PQ2800L/ PQ2400E/PQ2400L/ PQ2400S/ PQ2400S Lite/ PQ2800B only)	VMware vSphere 5.5 (ESXi 5.5)	Software Initiator	LAN switch	LAN port (1GbE) on IO unit(MC-3HUX31) (On Board)	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
			LAN switch	LAN port (10GbE) on IO unit(MC-3HUX41) (On Board)	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
			LAN switch	MC-0JGE81/MC0JGE81/ MC-0JGE82/MC0JGE82/ MC-0JGE8L	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
			LAN switch	MC-0JGE91/MC0JGE91/ MC-0JGE92/MC0JGE92/ MC-0JGE9L	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
			LAN switch	MC-0JXE31/MC0JXE31/ MC-0JXE32/MC0JXE32/ MC-0JXE3L	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
			LAN switch	MC-0JXE41/MC0JXE41/ MC-0JXE42/MC0JXE42/ MC-0JXE4L	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
			LAN switch	Dual channel LAN card (1GbE) MC-0JGEA1/MC0JGEA1/ MC-0JGEA2/MC-0JGEAL	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
PRIMEQUEST 1000 series (PQ1400S2/ 1400E2/1400L2/ 1800E2/1800L2 only)	VMware vSphere5.5 (ESXi 5.5)	Software Initiator	LAN switch (See Instruction for use)	LAN port on [I/O unit] (On board)	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
			LAN switch (See Instruction for use)	MC-0JGE11/MC-0JGE31	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Planned 2	Planned 2	
							VMware standard	No	Planned 2	Planned 2	

Server	VMware vSphere 5	iSCSI Initiator type	Connected Type	NIC or HBA	HBA's Driver	Software Initiator	Path Failover	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	VMware vSphere5.5 (ESXi 5.5) Update 1/Update 2/ Update 3	Software Initiator	LAN switch (See Instruction for use)	PY-LAD04/PYBLAD041/ PYBLAD042 S26361-F3331-L1/E1	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	Please disable "Flow Control" of LAN switch. - If each port of LAN switch can be set individually, then disable both port connected to ETERNUS and port connected to server. If each port of LAN switch can not be set individually, then disable entire LAN switch. If the switch has separate setting for send and receive, then disable "Flow Control" for both send and receive. - When multiple LAN switches are cascaded, please apply this to the switches which are directly connected to ETERNUS. For availability of on-board LAN, please refer to system configuration chart of PRIMERGY or ask sales representative.
			LAN switch (See Instruction for use)	PY-LA242 S26361-F3629-L502/E2/E202	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
			LAN switch (See Instruction for use)	PY-LA264/PYBLA264/ PYBLA262/ PYBLA262L S26361-F4610-L504/E4/E204 S26361-F4610-L502/E2/E202	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
			LAN switch (See Instruction for use)	PY-LA252 /PYBLA252 /PYBLA252L S26361-F3752-L502/E2/E202	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
			LAN switch (See Instruction for use)	PY-LAD12 PYBLAD121 PYBLAD122 S26361-F3997-L1/E1	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
			LAN switch (See Instruction for use)	On board LAN	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
			LAN switch (See Instruction for use)	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5302-L211 S26361-F5302-E211	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
			LAN switch (See Instruction for use)	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
		Hardware Initiator	LAN switch (See Instruction for use)	On board CNA(BE3) PY-CND02 PYBCND021 PYBCND022 S26361-F3592-L532/E532	VMware standard	Hardware Initiator	VMware standard	Yes	-	Supported (V10L52 or later)	
							VMware standard	Yes	-	Supported (V10L52 or later)	
	VMware vSphere5.5 (ESXi 5.5) Update 1/Update 2	Software Initiator	LAN switch (See Instruction for use)	PG-288/PG-288L/PY-LA111/ PG-289/289L/ PG-2861/2861L/ PG-28611/PG-28611L/ PG-2891/PG-2891L/ PG-LND201/PG-LND203	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
			LAN switch (See Instruction for use)	PG-2871/PY-LA234 S26361-F3611-L501	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
			LAN switch (See Instruction for use)	PG-285/PG-285L/ PGB285/PGB285L PY-LA101/PY-LA101L PYBLA101/PYBLA101L S26361-F3516-L1/L201 S26361-F3516-E1/E201	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
			LAN switch (See Instruction for use)	PG-2862/PGB2862/ PGB2862L/PY-LA222 S26361-F3610-L502	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
			LAN switch (See Instruction for use)	PG-284G/PG-284GL /PG-2841G(L)/ PGB284G/PGB284GL	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
			LAN switch (See Instruction for use)	PY-LA232/PYBLA232U PY-LA244/PYBLA244U S26361-F3740-L501/E701 S26361-F3739-L501/E701	VMware standard	VMware standard	VMware standard	No	-*2	-*2	
			LAN switch (See Instruction for use)	PG-LND204/PGBLND204/ PGBLND2042	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
			LAN switch (See Instruction for use)	PY-CN202/PY-CN202L PYBCN202/PYBCN202L S26361-F3592-L2/L202/E2/E202	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
							VMware standard	No	-*2	-*2	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	

*2 : VMware certification is not obtained yet.

Server	VMware vSphere 5	iSCSI Initiator type	Connected Type	NIC or HBA	HBA's Driver	Software Initiator	Path Failover	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	VMware vSphere5.5 (ESXi 5.5)	Software Initiator	LAN switch (See Instruction for use)	PG-288/PG-288U/PY-LA111/ PG-289/289U/ PG-286L/286L1/ PG-286L1/PG-286L11/ PG-289L/PG-289L1/ PG-LND201/PG-LND203 PY-LAD04/PYBLAD041/ PYBLAD042 S26361-F3331-L1/E1	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	Please disable "Flow Control" of LAN switch. - If each port of LAN switch can be set individually, then disable both port connected to ETERNUS and port connected to server. If each port of LAN switch can not be set individually, then disable entire LAN switch. If the switch has separate setting for send and receive, then disable "Flow Control" for both send and receive. * When multiple LAN switches are cascaded, please apply this to the switches which are directly connected to ETERNUS. For availability of on-board LAN, please refer to system configuration chart of PRIMERGY or ask sales representative.
							VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
			LAN switch (See Instruction for use)	PG-287J/PY-LA234 S26361-F3611-L501	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
			LAN switch (See Instruction for use)	PG-285/PG-285L/ PGB285/PGB285L PY-LA10J/PY-LA101L PYBLA10J/PYBLA101L S26361-F3516-L1/L201 S26361-F3516-E1/E201	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
			LAN switch (See Instruction for use)	PG-2862/PGB2862/ PGB2862L/PY-LA222 S26361-F3610-L502	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
			LAN switch (See Instruction for use)	PG-284G/PG-284GL /PG-2841G(L)/ PGB284G/PGB284GL PY-LA242 S26361-F3629-L502/E2/E202	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
			LAN switch (See Instruction for use)	PY-LA264/PYBLA264/ PYBLA264L PY-LA262/PYBLA262/ PYBLA262L S26361-F4610-L504/E4/E204 S26361-F4610-L502/E2/E202	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
			LAN switch (See Instruction for use)	PY-LA232/PYBLA232U PY-LA244/PYBLA244U S26361-F3740-L501/E701 S26361-F3739-L501/E701	VMware standard	VMware standard	VMware standard	No	- *2	- *2	
							VAMP 1.1.0 or later	No	- *2	- *2	
			LAN switch (See Instruction for use)	PY-LA252 /PYBLA252 /PYBLA252L S26361-F3752-L502/E2/E202	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
			LAN switch (See Instruction for use)	PG-LND204/PGBLND204/ PGBLND2042 PY-LAD12 PYBLAD121 PYBLAD122 S26361-F3997-L1/E1	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
			LAN switch (See Instruction for use)	On board LAN	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
			LAN switch (See Instruction for use)	PY-CN202/PY-CN202L PYBCN202/PYBCN202L S26361-F3592-L2L202/E2/E202	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
			LAN switch (See Instruction for use)	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5302-L211 S26361-F5302-E211	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
			LAN switch (See Instruction for use)	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
		Hardware Initiator	LAN switch (See Instruction for use)	On board CNA(BE3) PY-CND02 PYBCND021 PYBCND022 S26361-F3592-L532/E532	VMware standard	Hardware Initiator	VMware standard	Yes	-	Supported (V10L52 or later)	
							VAMP 1.1.0 or later	Yes	-	Supported (V10L52 or later)	
Other Companies' Servers	VMware vSphere5.5 (ESXi 5.5) Update 1/Update 2/ Update 3	Software Initiator	LAN switch (See Instruction for use)	NIC / CNA *4	VMware standard	VMware standard	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Please disable "Flow Control" of LAN switch. - If each port of LAN switch can be set individually, then disable both port connected to ETERNUS and port connected to server. If each port of LAN switch can not be set individually, then disable entire LAN switch. If the switch has separate setting for send and receive, then disable "Flow Control" for both send and receive. * When multiple LAN switches are cascaded, please apply this to the switches which are directly connected to ETERNUS.
		Hardware Initiator	LAN switch (See Instruction for use)	OCe11102	VMware standard	Hardware Initiator	VMware standard	Yes	-	Supported (V10L52 or later)	
	VMware vSphere5.5 (ESXi 5.5)	Software Initiator	LAN switch (See Instruction for use)	NIC / CNA *4	VMware standard	VMware standard	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	Please disable "Flow Control" of LAN switch. - If each port of LAN switch can be set individually, then disable both port connected to ETERNUS and port connected to server. If each port of LAN switch can not be set individually, then disable entire LAN switch. If the switch has separate setting for send and receive, then disable "Flow Control" for both send and receive. * When multiple LAN switches are cascaded, please apply this to the switches which are directly connected to ETERNUS.
		Hardware Initiator	LAN switch (See Instruction for use)	OCe11102	VMware standard	Hardware Initiator	VMware standard	Yes	-	Supported (V10L52 or later)	

*2 : VMware certification is not obtained yet.

*4 Supported only for NICs that are certified by VMware

Server	VMware vSphere 5	iSCSI Initiator type	Connected Type	NIC or HBA	HBA's Driver	Software Initiator	Path Failover	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMEQUEST 2000 series (PQ2800E/PQ2800L/ PQ2400E/PQ2400L/ PQ2400S/ PQ2400S Lite/ PQ2800B only)	VMware vSphere 5.1 (ESXi 5.1) Update 2	Software Initiator	LAN switch	LAN port (1GbE) on IO unit(MC-3HUX31) (On Board)	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
			LAN switch	LAN port (10GbE) on IO unit(MC-3HUX41) (On Board)	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
			LAN switch	MC-QJGE81/MC-QJGE81/ MC-QJGE82/MC-QJGE82/ MC-QJGE8L	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
			LAN switch	MC-QJGE91/MC-QJGE91/ MC-QJGE92/MC-QJGE92/ MC-QJGE9L	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
			LAN switch	MC-QJXE31/MC-QJXE31/ MC-QJXE32/MC-QJXE32/ MC-QJXE3L	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
			LAN switch	MC-QJXE41/MC-QJXE41/ MC-QJXE42/MC-QJXE42/ MC-QJXE4L	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
			LAN switch	Dual channel LAN card (1GbE) MC-QJGEA1/MC-QJGEA1/ MC-QJGEA2/MC-QJGEAL	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
			LAN switch	Quad channel LAN card (1GbE) MC-QJGEB1/MC-QJGEB1/ MC-QJGEB2/MC-QJGEBL	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L54 or later)	
PRIMEQUEST 1000 series (PQ1400S2/ 1400E2/1400L2/ 1800E2/1800L2 only)	VMware vSphere5.1 (ESXi 5.1) Update1	Software Initiator	LAN switch (See Instruction for use)	LAN port on [I/O unit] (On board)	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L52 or later)	Please disable "Flow Control" of LAN switch. - If each port of LAN switch can be set individually, then disable both port connected to ETERNUS and port connected to server. If each port of LAN switch can not be set individually, then disable entire LAN switch. If the switch has separate setting for send and receive, then disable "Flow Control" for both send and receive. - When multiple LAN switches are cascaded, please apply this to the switches which are directly connected to ETERNUS.
			LAN switch (See Instruction for use)	MC-QJGE11/MC-QJGE31	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L35 or later)	
	VMware vSphere5.1 (ESXi 5.1)	Software Initiator	LAN switch (See Instruction for use)	LAN port on [I/O unit] (On board)	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L52 or later)	Please disable "Flow Control" of LAN switch. - If each port of LAN switch can be set individually, then disable both port connected to ETERNUS and port connected to server. If each port of LAN switch can not be set individually, then disable entire LAN switch. If the switch has separate setting for send and receive, then disable "Flow Control" for both send and receive. - When multiple LAN switches are cascaded, please apply this to the switches which are directly connected to ETERNUS.
			LAN switch (See Instruction for use)	MC-QJGE11/MC-QJGE31	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
							VMware standard	No	Supported (V20L16 or later)	Supported (V10L35 or later)	
PRIMEQUEST 1000 series (PQ1400S/ 1400E/1400L/ 1800E/1800L only)	VMware vSphere 5.1 (ESXi 5.1)	Software Initiator	LAN switch (See Instruction for use)	LAN port on [I/O unit] (On board)/ MC-QJGE11	VMware standard	VMware standard	VMware standard	No	Planned 2	Planned 2	Please disable "Flow Control" of LAN switch. - If each port of LAN switch can be set individually, then disable both port connected to ETERNUS and port connected to server. If each port of LAN switch can not be set individually, then disable entire LAN switch. If the switch has separate setting for send and receive, then disable "Flow Control" for both send and receive. - When multiple LAN switches are cascaded, please apply this to the switches which are directly connected to ETERNUS.

Server	VMware vSphere 5	iSCSI Initiator type	Connected Type	NIC or HBA	HBA's Driver	Software Initiator	Path Failover	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	VMware vSphere5.1 (ESXi 5.1) Update 1/Update 2/ Update 3	Software Initiator	LAN switch (See Instruction for use)	PG-288/PG-288L/PY-LA111/ PG-289/289L/ PG-2861/2861L/ PG-2861L/PG-2861L1/ PG-2891/PG-2891L/ PG-LND201/PG-LND203 PY-LAD04/PYBLAD041/ PYBLAD042 S26361-F3331-L1/E1	VMware standard	VMware standard	VMware standard	No	Supported (V20L13 or later)	Supported (V10L35 or later)	Please disable "Flow Control" of LAN switch. - If each port of LAN switch can be set individually, then disable both port connected to ETERNUS and port connected to server. If each port of LAN switch can not be set individually, then disable entire LAN switch. If the switch has separate setting for send and receive, then disable "Flow Control" for both send and receive. - When multiple LAN switches are cascaded, please apply this to the switches which are directly connected to ETERNUS.
							VAMP 1.1.0 or later	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
			LAN switch (See Instruction for use)	PG-2871/PY-LA234 S26361-F3611-L501	VMware standard	VMware standard	VMware standard	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
			LAN switch (See Instruction for use)	PG-285/PG-285L/ PGB285/PGB285L PY-LA101/PY-LA101L PYBLA101/PYBLA101L S26361-F3516-L1/L201 S26361-F3516-E1/E201	VMware standard	VMware standard	VMware standard	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
			LAN switch (See Instruction for use)	PG-2862/PGB2862/ PGB2862L/PY-LA222 S26361-F3610-L502	VMware standard	VMware standard	VMware standard	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
			LAN switch (See Instruction for use)	PG-284G/PG-284GL /PG-2841G(L) PGB284G/PGB284GL PY-LA242 S26361-F3629-L502/E2/E202	VMware standard	VMware standard	VMware standard	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
			LAN switch (See Instruction for use)	PY-LA232/PYBLA232U PY-LA244/PYBLA244U S26361-F3740-L501/E701 S26361-F3739-L501/E701	VMware standard	VMware standard	VMware standard	No	Supported (V20L14 or later)	Supported (V10L45 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L14 or later)	Supported (V10L45 or later)	
			LAN switch (See Instruction for use)	PY-LA252 /PYBLA252 /PYBLA252L S26361-F3752-L502/E2/E202	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L45 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L45 or later)	
			LAN switch (See Instruction for use)	PG-LND204/PGBLND204/ PGBLND2042 PY-LAD12 PYBLAD121 PYBLAD122 S26361-F3997-L1/E1	VMware standard	VMware standard	VMware standard	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
			LAN switch (See Instruction for use)	On board LAN	VMware standard	VMware standard	VMware standard	Yes Note 1	Supported (V20L13 or later)	Supported (V10L35 or later)	
							VAMP 1.1.0 or later	Yes Note 1	Supported (V20L13 or later)	Supported (V10L35 or later)	
			LAN switch (See Instruction for use)	On board CNA(BE3) PY-CND02 PYBCND021 PYBCND022 S26361-F3592-L532/E532	VMware standard	VMware standard	VMware standard	No	Planned 2	Supported (V10L40 or later)	
							VAMP 1.1.0 or later	No	Planned 2	Supported (V10L40 or later)	

Note 1 : Some models support iSCSI boot. Please ask server side.

Server	VMware vSphere 5	iSCSI Initiator type	Connected Type	NIC or HBA	HBA's Driver	Software Initiator	Path Failover	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	VMware vSphere5.1 (ESXi 5.1)	Software Initiator	LAN switch (See Instruction for use)	PG-288/PG-288L/PY-LA111/ PG-289/289L/ PG-2861/2861L/ PG-2891/PG-289L/ PG-LND201/PG-LND203 PY-LAD04/PYBLAD041/ PYBLAD042 S26361-F3331-L1/E1	VMware standard	VMware standard	VMware standard	No	Supported (V20L13 or later)	Supported (V10L35 or later)	Please disable "Flow Control" of LAN switch. - If each port of LAN switch can be set individually, then disable both port connected to ETERNUS and port connected to server. If each port of LAN switch can not be set individually, then disable entire LAN switch. If the switch has separate setting for send and receive, then disable "Flow Control" for both send and receive. - When multiple LAN switches are cascaded, please apply this to the switches which are directly connected to ETERNUS.
							VAMP 1.1.0 or later	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
			LAN switch (See Instruction for use)	PG-2871/PY-LA234 S26361-F3611-L501	VMware standard	VMware standard	VMware standard	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
			LAN switch (See Instruction for use)	PG-285/PG-285L/ PGB285/PGB285L PY-LA101/PY-LA101L PYBLA101/PYBLA101L S26361-F3516-L1/L201 S26361-F3516-E1/E201	VMware standard	VMware standard	VMware standard	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
			LAN switch (See Instruction for use)	PG-2862/PGB2862/ PGB2862L/PY-A222 S26361-F3610-L502	VMware standard	VMware standard	VMware standard	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
			LAN switch (See Instruction for use)	PG-284G/PG-284GL /PG-2841G(L) PGB284G/PGB284GL PY-LA242 S26361-F3629-L502/E2/E202	VMware standard	VMware standard	VMware standard	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
			LAN switch (See Instruction for use)	PY-LA232/PYBLA232U PY-LA244/PYBLA244U S26361-F3740-L501/E701 S26361-F3739-L501/E701	VMware standard	VMware standard	VMware standard	No	Supported (V20L14 or later)	Supported (V10L45 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L14 or later)	Supported (V10L45 or later)	
			LAN switch (See Instruction for use)	PY-LA252 /PYBLA252 /PYBLA252L S26361-F3752-L502/E2/E202	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L45 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L45 or later)	
			LAN switch (See Instruction for use)	PG-LND204/PGBLND204/ PGBLND2042 PY-LAD12 PYBLAD121 PYBLAD122 S26361-F3997-L1/E1	VMware standard	VMware standard	VMware standard	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
			LAN switch (See Instruction for use)	On board LAN	VMware standard	VMware standard	VMware standard	Yes Note 1	Supported (V20L13 or later)	Supported (V10L35 or later)	
							VAMP 1.1.0 or later	Yes Note 1	Supported (V20L13 or later)	Supported (V10L35 or later)	
			LAN switch (See Instruction for use)	On board CNA(BE3) PY-CND02 PYBCND021 PYBCND022 S26361-F3592-L532/E532	VMware standard	VMware standard	VMware standard	No	Planned 2	Supported (V10L40 or later)	
							VAMP 1.1.0 or later	No	Planned 2	Supported (V10L40 or later)	

Note 1 : Some models support iSCSI boot. Please ask server side.

Server	VMware vSphere 5	iSCSI Initiator type	Connected Type	NIC or HBA	HBA's Driver	Software Initiator	Path Failover	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
Other Companies' Servers	VMware vSphere5.1 (ESXi 5.1) Update 1/Update 2/ Update 3	Software Initiator	LAN switch (See Instruction for use)	Intel PRO/1000 PT/ Intel PRO/1000 PF	VMware standard	VMware standard	VMware standard	Yes Note 2	Supported (V20L12 or later)	Supported (V10L31 or later)	Please disable "Flow Control" of LAN switch. - If each port of LAN switch can be set individually, then disable both port connected to ETERNUS and port connected to server. If each port of LAN switch can not be set individually, then disable entire LAN switch. If the switch has separate setting for send and receive, then disable "Flow Control" for both send and receive. - When multiple LAN switches are cascaded, please apply this to the switches which are directly connected to ETERNUS.
							VAMP 1.1.0 or later	Yes Note 2	Supported (V20L12 or later)	Supported (V10L31 or later)	
			LAN switch (See Instruction for use)	Intel Ethernet I350T2 Intel Ethernet I350T4	VMware standard	VMware standard	VMware standard	Yes Note 2	Supported (V20L14 or later)	Supported (V10L45 or later)	
							VAMP 1.1.0 or later	Yes Note 2	Supported (V20L14 or later)	Supported (V10L45 or later)	
			LAN switch (See Instruction for use)	Intel Gigabit ET/ET2/EF	VMware standard	VMware standard	VMware standard	Yes Note 2	Supported (V20L12 or later)	Supported (V10L31 or later)	
							VAMP 1.1.0 or later	Yes Note 2	Supported (V20L12 or later)	Supported (V10L31 or later)	
			LAN switch (See Instruction for use)	Broadcom 5708S	VMware standard	VMware standard	VMware standard	Yes Note 2	Planned 2	Planned 2	
							VAMP 1.1.0 or later	Yes Note 2	Planned 2	Planned 2	
			LAN switch (See Instruction for use)	Intel 10 Gigabit XF	VMware standard	VMware standard	VMware standard	Yes Note 2	Planned 2	Planned 2	
							VAMP 1.1.0 or later	Yes Note 2	Planned 2	Planned 2	
			LAN switch (See Instruction for use)	Intel Ethernet X540	VMware standard	VMware standard	VMware standard	Yes Note 2	Supported (V20L16 or later)	Supported (V10L45 or later)	
							VAMP 1.1.0 or later	Yes Note 2	Supported (V20L16 or later)	Supported (V10L45 or later)	
			LAN switch (See Instruction for use)	Intel Ethernet X520	VMware standard	VMware standard	VMware standard	Yes Note 2	Supported (V20L12 or later)	Supported (V10L31 or later)	
							VAMP 1.1.0 or later	Yes Note 2	Supported (V20L12 or later)	Supported (V10L31 or later)	
	VMware vSphere5.1 (ESXi 5.1)	Software Initiator	LAN switch (See Instruction for use)	Intel PRO/1000 PT/ Intel PRO/1000 PF	VMware standard	VMware standard	VMware standard	Yes Note 2	Supported (V20L12 or later)	Supported (V10L31 or later)	Please disable "Flow Control" of LAN switch. - If each port of LAN switch can be set individually, then disable both port connected to ETERNUS and port connected to server. If each port of LAN switch can not be set individually, then disable entire LAN switch. If the switch has separate setting for send and receive, then disable "Flow Control" for both send and receive. - When multiple LAN switches are cascaded, please apply this to the switches which are directly connected to ETERNUS.
							VAMP 1.1.0 or later	Yes Note 2	Supported (V20L12 or later)	Supported (V10L31 or later)	
			LAN switch (See Instruction for use)	Intel Ethernet I350T2 Intel Ethernet I350T4	VMware standard	VMware standard	VMware standard	Yes Note 2	Supported (V20L14 or later)	Supported (V10L45 or later)	
							VAMP 1.1.0 or later	Yes Note 2	Supported (V20L14 or later)	Supported (V10L45 or later)	
			LAN switch (See Instruction for use)	Intel Gigabit ET/ET2/EF	VMware standard	VMware standard	VMware standard	Yes Note 2	Supported (V20L12 or later)	Supported (V10L31 or later)	
							VAMP 1.1.0 or later	Yes Note 2	Supported (V20L12 or later)	Supported (V10L31 or later)	
			LAN switch (See Instruction for use)	Broadcom 5708S	VMware standard	VMware standard	VMware standard	Yes Note 2	Planned 2	Planned 2	
							VAMP 1.1.0 or later	Yes Note 2	Planned 2	Planned 2	
			LAN switch (See Instruction for use)	Intel 10 Gigabit XF	VMware standard	VMware standard	VMware standard	Yes Note 2	Planned 2	Planned 2	
							VAMP 1.1.0 or later	Yes Note 2	Planned 2	Planned 2	
			LAN switch (See Instruction for use)	Intel Ethernet X540	VMware standard	VMware standard	VMware standard	Yes Note 2	Supported (V20L16 or later)	Supported (V10L45 or later)	
							VAMP 1.1.0 or later	Yes Note 2	Supported (V20L16 or later)	Supported (V10L45 or later)	
			LAN switch (See Instruction for use)	Intel Ethernet X520	VMware standard	VMware standard	VMware standard	Yes Note 2	Supported (V20L12 or later)	Supported (V10L31 or later)	
							VAMP 1.1.0 or later	Yes Note 2	Supported (V20L12 or later)	Supported (V10L31 or later)	

Note 2 : Please ask server vendor if server supports iSCSI boot.

Server	VMware vSphere 5	iSCSI Initiator type	Connected Type	NIC or HBA	HBA's Driver	Software Initiator	Path Failover	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMEQUEST 1000 series (PQ1400S2/ 1400E2/1400L2/ 1800E2/1800L2 only)	VMware vSphere 5 (ESXi 5.0) Update 1/ Update 2	Software Initiator	LAN switch (See Instruction for use)	LAN port on [I/O unit] (On board)	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L52 or later)	Please disable "Flow Control" of LAN switch. - If each port of LAN switch can be set individually, then disable both port connected to ETERNUS and port connected to server. If each port of LAN switch can not be set individually, then disable entire LAN switch. If the switch has separate setting for send and receive, then disable "Flow Control" for both send and receive. - When multiple LAN switches are cascaded, please apply this to the switches which are directly connected to ETERNUS.
			LAN switch (See Instruction for use)	MC-0JGE11/MC-0JGE31	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
			LAN switch (See Instruction for use)	LAN port on [I/O unit] (On board)	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L12 or later)	Supported (V10L25 or later)	
			LAN switch (See Instruction for use)	MC-0JGE11/MC-0JGE31	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L12 or later)	Supported (V10L25 or later)	
	VMware vSphere 5 (ESXi 5.0)	Software Initiator	LAN switch (See Instruction for use)	LAN port on [I/O unit] (On board)	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
			LAN switch (See Instruction for use)	MC-0JGE11/MC-0JGE31	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
PRIMEQUEST 1000 series (PQ1400S/ 1400E/1400L/ 1800E/1800L only)	VMware vSphere 5 (ESXi 5.0) Update 1/ Update 2	Software Initiator	LAN switch (See Instruction for use)	LAN port on [I/O unit] (On board/ MC-0JGE11	VMware standard	VMware standard	VMware standard	No	Supported (V20L12 or later)	Supported (V10L25 or later)	Please disable "Flow Control" of LAN switch. - If each port of LAN switch can be set individually, then disable both port connected to ETERNUS and port connected to server. If each port of LAN switch can not be set individually, then disable entire LAN switch. If the switch has separate setting for send and receive, then disable "Flow Control" for both send and receive. - When multiple LAN switches are cascaded, please apply this to the switches which are directly connected to ETERNUS.
	VMware vSphere 5 (ESXi 5.0)		LAN switch (See Instruction for use)	LAN port on [I/O unit] (On board/ MC-0JGE11	VMware standard	VMware standard	VMware standard	No	Supported (V20L12 or later)	Supported (V10L25 or later)	
PRIMERGY	VMware vSphere5.0 (ESXi 5.0) Update 1/Update 2	Software Initiator	LAN switch (See Instruction for use)	PG-289/PG-289LPY-LA111/ PG-289/289L/ PG-2861/2861L/ PG-28611/PG-2861L1/ PG-2891/PG-289L1/ PG-LND201/PG-LND203 PY-LAD04/PYBLAD04/ PYBLAD042 S26361-F3331-L1/E1	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L16 or later)	Please disable "Flow Control" of LAN switch. - If each port of LAN switch can be set individually, then disable both port connected to ETERNUS and port connected to server. If each port of LAN switch can not be set individually, then disable entire LAN switch. If the switch has separate setting for send and receive, then disable "Flow Control" for both send and receive. - When multiple LAN switches are cascaded, please apply this to the switches which are directly connected to ETERNUS.
			LAN switch (See Instruction for use)	PG-2871/PY-LA234 S26361-F3611-L501	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L16 or later)	
			LAN switch (See Instruction for use)	PG-285/PG-285L/ PGB285/PGB285L PY-LA101/PY-LA101L PYBLA101/PYBLA101L S26361-F3516-L1/L201 S26361-F3516-E1/E201	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L16 or later)	
			LAN switch (See Instruction for use)	PG-2862/PGB2862/ PGB2862LPY-LA222 S26361-F3610-L502	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L16 or later)	
			LAN switch (See Instruction for use)	PG-284G/PG-284GL /PG-2841G(L)/ PGB284G/PGB284GL PY-LA242 S26361-F3629-L502/E2/E202	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
			LAN switch (See Instruction for use)	PY-LA232/PYBLA232U PY-LA244/PYBLA244U S26361-F3740-L501/E701 S26361-F3739-L501/E701	VMware standard	VMware standard	VMware standard	No	Supported (V20L14 or later)	Supported (V10L45 or later)	
			LAN switch (See Instruction for use)	PY-LA252 /PYBLA252 /PYBLA252L S26361-F3752-L502/E2/E202	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L45 or later)	
			LAN switch (See Instruction for use)	PG-LND204/PGBLND204/ PGBLND2042 PY-LAD12 PYBLAD121 PYBLAD122 S26361-F3997-L1/E1	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
			LAN switch (See Instruction for use)	On board LAN	VMware standard	VMware standard	VMware standard	Yes Note 1	Supported (V20L10 or later)	Supported (V10L20 or later)	
			LAN switch (See Instruction for use)	On board CNA(BE3) PY-CND02 PYBCND021 PYBCND022 S26361-F3592-L532/E532	VMware standard	VMware standard	VMware standard	No	Planned 2	Supported (V10L40 or later)	
			LAN switch (See Instruction for use)				VAMP 1.1.0 or later	No	Planned 2	Supported (V10L40 or later)	

Note 1 : Some models support iSCSI boot. Please ask server side.

Server	VMware vSphere 5	iSCSI Initiator type	Connected Type	NIC or HBA	HBA's Driver	Software Initiator	Path Failover	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	VMware vSphere 5 (ESXi 5.0)	Software Initiator	LAN switch (See Instruction for use)	PG-288/PG-288L/ PG-289/289L/ PG-LND201/PG-LND203/ S26361-F3451-L1/ S26361-F3331-L1/ S26361-F3241-L1/L201/ S26361-F3228-L1/L201	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L16 or later)	Please disable "Flow Control" of LAN switch. - If each port of LAN switch can be set individually, then disable both port connected to ETERNUS and port connected to server. If each port of LAN switch can not be set individually, then disable entire LAN switch. If the switch has separate setting for send and receive, then disable "Flow Control" for both send and receive. - When multiple LAN switches are cascaded, please apply this to the switches which are directly connected to ETERNUS.
							VAMP 1.1.0 or later	No	Supported (V20L10 or later)	Supported (V10L16 or later)	
			LAN switch (See Instruction for use)	PG-2871/ S26361-F3611-L501/ PY-LA234	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L16 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L10 or later)	Supported (V10L16 or later)	
			LAN switch (See Instruction for use)	PG-285	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L16 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L10 or later)	Supported (V10L16 or later)	
			LAN switch (See Instruction for use)	PG-2862/PG82862/ PG82862L/PY-LA222 S26361-F3610-L502	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L16 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L10 or later)	Supported (V10L16 or later)	
			LAN switch (See Instruction for use)	PG-284G/ PY-LA242/ S26361-F3555-L501	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
			LAN switch (See Instruction for use)	PY-LA232/PYBLA232U PY-LA244/PYBLA244U S26361-F3740-L501/E701 S26361-F3739-L501/E701	VMware standard	VMware standard	VMware standard	No	Supported (V20L14 or later)	Supported (V10L45 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L14 or later)	Supported (V10L45 or later)	
			LAN switch (See Instruction for use)	PY-LA252 /PYBLA252L S26361-F3752-L502/E2/E202	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L45 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L45 or later)	
			LAN switch (See Instruction for use)	PG-LND204/PGBLND204/ PGBLND2042 PY-LAD12 PYBLAD121 PYBLAD122 S26361-F3997-L1/E1	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L10 or later)	Supported (V10L20 or later)	
			LAN switch (See Instruction for use)	On board LAN	VMware standard	VMware standard	VMware standard	Yes Note 1	Supported (V20L10 or later)	Supported (V10L20 or later)	
							VAMP 1.1.0 or later	Yes Note 1	Supported (V20L10 or later)	Supported (V10L20 or later)	
			LAN switch (See Instruction for use)	On board CNA(BE3) PY-CND02 PYBCND021 PYBCND022 S26361-F3592-L532/E532	VMware standard	VMware standard	VMware standard	No	Planned 2	Supported (V10L40 or later)	
							VAMP 1.1.0 or later	No	Planned 2	Supported (V10L40 or later)	

Note 1 : Some models support iSCSI boot. Please ask server side.

Server	VMware vSphere 5	iSCSI Initiator type	Connected Type	NIC or HBA	HBA's Driver	Software Initiator	Path Failover	iSCSI Boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
Other Companies' Servers	VMware vSphere5.0 (ESXi 5.0) Update 1/Update 2	Software Initiator	LAN switch (See Instruction for use)	Intel PRO/1000 PT/ Intel PRO/1000 PF	VMware standard	VMware standard	VMware standard	Yes Note 2	Supported (V20L10 or later)	Supported (V10L16 or later)	Please disable "Flow Control" of LAN switch. - If each port of LAN switch can be set individually, then disable both port connected to ETERNUS and port connected to server. If each port of LAN switch can not be set individually, then disable entire LAN switch. If the switch has separate setting for send and receive, then disable "Flow Control" for both send and receive. - When multiple LAN switches are cascaded, please apply this to the switches which are directly connected to ETERNUS.
							VAMP 1.1.0 or later	Yes Note 2	Supported (V20L10 or later)	Supported (V10L16 or later)	
			LAN switch (See Instruction for use)	Intel Ethernet I350T2 Intel Ethernet I350T4	VMware standard	VMware standard	VMware standard	Yes Note 2	Supported (V20L14 or later)	Supported (V10L45 or later)	
							VAMP 1.1.0 or later	Yes Note 2	Supported (V20L14 or later)	Supported (V10L45 or later)	
			LAN switch (See Instruction for use)	Intel Gigabit ET/ET2/EF	VMware standard	VMware standard	VMware standard	Yes Note 2	Supported (V20L10 or later)	Supported (V10L16 or later)	
							VAMP 1.1.0 or later	Yes Note 2	Supported (V20L10 or later)	Supported (V10L16 or later)	
			LAN switch (See Instruction for use)	Broadcom 5708S	VMware standard	VMware standard	VMware standard	Yes Note 2	Planned 2	Planned 2	
							VAMP 1.1.0 or later	Yes Note 2	Planned 2	Planned 2	
			LAN switch (See Instruction for use)	Intel 10 Gigabit XF	VMware standard	VMware standard	VMware standard	Yes Note 2	Planned 2	Planned 2	
							VAMP 1.1.0 or later	Yes Note 2	Planned 2	Planned 2	
			LAN switch (See Instruction for use)	Intel Ethernet X540	VMware standard	VMware standard	VMware standard	Yes Note 2	Supported (V20L16 or later)	Supported (V10L45 or later)	
							VAMP 1.1.0 or later	Yes Note 2	Supported (V20L16 or later)	Supported (V10L45 or later)	
			LAN switch (See Instruction for use)	Intel Ethernet X520	VMware standard	VMware standard	VMware standard	Yes Note 2	Supported (V20L10 or later)	Supported (V10L20 or later)	
							VAMP 1.1.0 or later	Yes Note 2	Supported (V20L10 or later)	Supported (V10L20 or later)	
	VMware vSphere 5 (ESXi 5.0)	Software Initiator	LAN switch (See Instruction for use)	Intel PRO/1000 PT/ Intel PRO/1000 PF	VMware standard	VMware standard	VMware standard	Yes Note 2	Supported (V20L10 or later)	Supported (V10L16 or later)	
							VAMP 1.1.0 or later	Yes Note 2	Supported (V20L10 or later)	Supported (V10L16 or later)	
			LAN switch (See Instruction for use)	Intel Ethernet I350T2 Intel Ethernet I350T4	VMware standard	VMware standard	VMware standard	Yes Note 2	Supported (V20L14 or later)	Supported (V10L45 or later)	
							VAMP 1.1.0 or later	Yes Note 2	Supported (V20L14 or later)	Supported (V10L45 or later)	
			LAN switch (See Instruction for use)	Intel Gigabit ET/ET2/EF	VMware standard	VMware standard	VMware standard	Yes Note 2	Supported (V20L10 or later)	Supported (V10L16 or later)	
							VAMP 1.1.0 or later	Yes Note 2	Supported (V20L10 or later)	Supported (V10L16 or later)	
			LAN switch (See Instruction for use)	Broadcom 5708S	VMware standard	VMware standard	VMware standard	Yes Note 2	Planned 2	Planned 2	
							VAMP 1.1.0 or later	Yes Note 2	Planned 2	Planned 2	
			LAN switch (See Instruction for use)	Intel 10 Gigabit XF	VMware standard	VMware standard	VMware standard	Yes Note 2	Planned 2	Planned 2	
							VAMP 1.1.0 or later	Yes Note 2	Planned 2	Planned 2	
			LAN switch (See Instruction for use)	Intel Ethernet X540	VMware standard	VMware standard	VMware standard	Yes Note 2	Supported (V20L16 or later)	Supported (V10L45 or later)	
							VAMP 1.1.0 or later	Yes Note 2	Supported (V20L16 or later)	Supported (V10L45 or later)	
			LAN switch (See Instruction for use)	Intel Ethernet X520	VMware standard	VMware standard	VMware standard	Yes Note 2	Supported (V20L10 or later)	Supported (V10L20 or later)	
							VAMP 1.1.0 or later	Yes Note 2	Supported (V20L10 or later)	Supported (V10L20 or later)	

Note 2 : Please ask server vendor if server supports iSCSI boot.

Server	VMware vSphere 4	iSCSI Initiator type	Connected Type	NIC or HBA	HBA's Driver	Software Initiator	Path Failover	iSCSI Boot Note 3	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMEQUEST 1000 series (PQ1400S2 Lite/ 1400S2/1400E2/ 1400L2/1800E2/ 1800L2 only)	VMware vSphere 4.1 (ESX 4.1) Update3	Software Initiator	LAN switch (See Instruction for use)	MC-QJXE11	VMware standard	VMware standard	VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L52 or later)	Please disable "Flow Control" of LAN switch. - If each port of LAN switch can be set individually, then disable both port connected to ETERNUS and port connected to server. If each port of LAN switch can not be set individually, then disable entire LAN switch. If the switch has separate setting for send and receive, then disable "Flow Control" for both send and receive. - When multiple LAN switches are cascaded, please apply this to the switches which are directly connected to ETERNUS.
						VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
	VMware vSphere 4.1 (ESX 4.1) Update1 Update2	Software Initiator	LAN switch (See Instruction for use)	MC-QJXE11	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
PRIMEQUEST 1000 series	VMware vSphere 4.1 (ESX 4.1) Update 1	Software Initiator	LAN switch (See Instruction for use)	LAN port on [I/O unit] (On board)	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	Please disable "Flow Control" of LAN switch. - If each port of LAN switch can be set individually, then disable both port connected to ETERNUS and port connected to server. If each port of LAN switch can not be set individually, then disable entire LAN switch. If the switch has separate setting for send and receive, then disable "Flow Control" for both send and receive. - When multiple LAN switches are cascaded, please apply this to the switches which are directly connected to ETERNUS.
			LAN switch (See Instruction for use)	MC-QJGE11/MC-QJGE31	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
PRIMEQUEST 1000 series (PQ1400S/ 1400E/1400L/ 1800E/1800L only)	VMware vSphere 4.1 (ESX 4.1)	Software Initiator	LAN switch (See Instruction for use)	LAN port on [I/O unit] (On board)/ MC-QJGE11	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
	VMware vSphere 4 (ESX 4.0) Update 1/ Update 2		LAN switch (See Instruction for use)	LAN port on [I/O unit] (On board)/ MC-QJGE11	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	

Note 3 : VMware ESX does not support boot from iSCSI storage.

Server	VMware vSphere 4	iSCSI Initiator type	Connected Type	NIC or HBA	HBA's Driver	Software Initiator	Path Failover	iSCSI Boot Note 3	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	VMware vSphere 4.1 (ESX 4.1/ESXi 4.1) Update 1/Update 2/ Update 3	Software Initiator	LAN switch (See Instruction for use)	PG-288/PG-288L/ PG-289/289L/ PG-286L/286L1/ PG-LND201/PG-LND203/ PG-2871/ S26361-F3241-L1/L201/ S26361-F3228-L1/L201/ S26361-F3611-L501/ PY-LA234	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	Please disable "Flow Control" of LAN switch. - If each port of LAN switch can be set individually, then disable both port connected to ETERNUS and port connected to server. If each port of LAN switch can not be set individually, then disable entire LAN switch. If the switch has separate setting for send and receive, then disable "Flow Control" for both send and receive. - When multiple LAN switches are cascaded, please apply this to the switches which are directly connected to ETERNUS.
							VAMP 1.1.0 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	PG-285	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L12 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	PG-2862/ PY-LA222	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	PG-284G/ PY-LA242/ S26361-F3555-L501	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L12 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	PY-LA232/PYBLA232U PY-LA244/PYBLA244U	VMware standard	VMware standard	VMware standard	No	Supported (V20L14 or later)	Supported (V10L45 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L14 or later)	Supported (V10L45 or later)	
			LAN switch (See Instruction for use)	PG-LND204/ S26361-F3997-L1	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L12 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	On board LAN	VMware standard	VMware standard	VMware standard	No	Planned 2	Supported (V10L12 or later)	
							VAMP 1.1.0 or later	No	Planned 2	Supported (V10L12 or later)	
	VMware vSphere 4.1 (ESX 4.1/ESXi 4.1)	Software Initiator	LAN switch (See Instruction for use)	PG-288/PG-288L/ PG-289/289L/ PG-286L/286L1/ PG-LND201/PG-LND203/ PG-2871/ S26361-F3241-L1/L201/ S26361-F3228-L1/L201/ S26361-F3611-L501/ PY-LA234	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	PG-285	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	PG-2862/ PY-LA222	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	PG-284G/ PY-LA242/ S26361-F3555-L501	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	PY-LA232/PYBLA232U PY-LA244/PYBLA244U	VMware standard	VMware standard	VMware standard	No	Supported (V20L14 or later)	Supported (V10L45 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L14 or later)	Supported (V10L45 or later)	
			LAN switch (See Instruction for use)	PG-LND204/ S26361-F3997-L1	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	On board LAN	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)	

Note 3 : VMware ESX does not support boot from iSCSI storage.

Server	VMware vSphere 4	iSCSI Initiator type	Connected Type	NIC or HBA	HBA's Driver	Software Initiator	Path Follower	iSCSI Boot Note 3	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	VMware vSphere 4 (ESX 4.0/ESXi 4.0) Update 2/ Update 3/ Update 4	Software Initiator	LAN switch (See Instruction for use)	PG-288/PG-288L/ PG-289/289L/ PG-2861/2861L/ PG-LND201/PG-LND203/ PG-2871/ S26361-F3241-L1/L201/ S26361-F3228-L1/L201/ S26361-F3611-L501/ PY-LA234	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	Please disable "Flow Control" of LAN switch. - If each port of LAN switch can be set individually, then disable both port connected to ETERNUS and port connected to server. If each port of LAN switch can not be set individually, then disable entire LAN switch. If the switch has separate setting for send and receive, then disable "Flow Control" for both send and receive. - When multiple LAN switches are cascaded, please apply this to the switches which are directly connected to ETERNUS.
			LAN switch (See Instruction for use)	PG-285	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	PG-2862/ PY-LA222	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	PG-284G/ PY-LA242/ S26361-F3555-L501	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	PG-LND204/ S26361-F3997-L1	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	On board LAN	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
	VMware vSphere 4 (ESX 4.0/ESXi 4.0) Update 1	Software Initiator	LAN switch (See Instruction for use)	PG-288/PG-288L/ PG-289/289L/ PG-2861/2861L/ PG-LND201/PG-LND203/ PG-2871/ S26361-F3241-L1/L201/ S26361-F3228-L1/L201/ S26361-F3611-L501/ PY-LA234	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	PG-285	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	PG-2862/ PY-LA222	2.4.10	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	PG-284G/ PY-LA242/ S26361-F3555-L501	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	PG-LND204/ S26361-F3997-L1	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	On board LAN	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
	VMware vSphere 4 (ESX 4.0/ESXi 4.0)	Software Initiator	LAN switch (See Instruction for use)	PG-288/PG-288L/ PG-289/289L/ PG-2861/2861L/ PG-LND201/PG-LND203/ PG-2871/ S26361-F3241-L1/L201/ S26361-F3228-L1/L201/ S26361-F3611-L501/ PY-LA234	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	On board LAN	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	

Note 3 : VMware ESX does not support boot from iSCSI storage.

Server	VMware vSphere 4	iSCSI Initiator type	Connected Type	NIC or HBA	HBA's Driver	Software Initiator	Path Failover	iSCSI Boot Note 3	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
Other Companies' Servers	VMware vSphere 4.1 (ESX 4.1/ESXi 4.1) Update 1/Update 2/ Update 3	Software Initiator	LAN switch (See Instruction for use)	Intel PRO/1000 PT	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	Please disable "Flow Control" of LAN switch. - If each port of LAN switch can be set individually, then disable both port connected to ETERNUS and port connected to server. If each port of LAN switch can not be set individually, then disable entire LAN switch. If the switch has separate setting for send and receive, then disable "Flow Control" for both send and receive. - When multiple LAN switches are cascaded, please apply this to the switches which are directly connected to ETERNUS.
							VAMP 1.1.0 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	Intel Ethernet I350T2 Intel Ethernet I350T4	VMware standard	VMware standard	VMware standard	No	Supported (V20L14 or later)	Supported (V10L45 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L14 or later)	Supported (V10L45 or later)	
			LAN switch (See Instruction for use)	Intel Gigabit ET/ET2/EF	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	Broadcom 5708S	VMware standard	VMware standard	VMware standard	No	Planned 2	Supported (V10L12 or later)	
							VAMP 1.1.0 or later	No	Planned 2	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	Intel 10 Gigabit XF	VMware standard	VMware standard	VMware standard	No	Planned 2	Supported (V10L12 or later)	
							VAMP 1.1.0 or later	No	Planned 2	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	Intel Ethernet X520	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L12 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L16 or later)	Supported (V10L12 or later)	
	VMware vSphere 4.1 (ESX 4.1/ESXi 4.1)	Software Initiator	LAN switch (See Instruction for use)	Intel PRO/1000 PT	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	Intel PRO/1000 PF	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	Intel Ethernet I350T2 Intel Ethernet I350T4	VMware standard	VMware standard	VMware standard	No	Supported (V20L14 or later)	Supported (V10L45 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L14 or later)	Supported (V10L45 or later)	
			LAN switch (See Instruction for use)	Intel Gigabit ET/ET2/EF	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
							VAMP 1.1.0 or later	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
	VMware vSphere 4 (ESX 4.0/ESXi 4.0) Update 1/ Update 2/ Update 3/ Update 4	Software Initiator	LAN switch (See Instruction for use)	Intel PRO/1000 PT	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	Intel PRO/1000 PF	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	Intel Gigabit ET/ET2/EF	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	Broadcom 5708S	VMware standard	VMware standard	VMware standard	No	Planned 2	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	Intel 10 Gigabit XF	VMware standard	VMware standard	VMware standard	No	Planned 2	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	Intel Ethernet X520	VMware standard	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L12 or later)	
	VMware vSphere 4 (ESX 4.0/ESXi 4.0)	Software Initiator	LAN switch (See Instruction for use)	Intel PRO/1000 PT	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	Intel PRO/1000 MT	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	
			LAN switch (See Instruction for use)	Intel PRO/1000 PF	VMware standard	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L12 or later)	

Note 3 : VMware ESX does not support boot from iSCSI storage.

Notes

SAS connection

Server	VMware vSphere 6.5	Connected Type	HBA				Path Failover	Boot	Model		Instruction for use
			model name	BIOS version	Firmware version	Driver version			DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	VMware vSphere 6.5 (ESXi 6.5) GA	Direct	PY-SC3FE S26361-F3845-L501	See Instruction for use *1	See Instruction for use *1	VMware standard	VMware standard	No	N.A.	Supported (V10L60 or later)	*1 Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
		SW-Blade	PY-SCD08/PYBSCD082 S26361-F4480-L1/E1	See Instruction for use *1	See Instruction for use *1	VMware standard	VMware standard	No	N.A.	Supported (V10L60 or later)	
Other Companies' Servers	VMware vSphere 6.5 (ESXi 6.5) GA	Direct	LSI SAS9300-8e	See Instruction for use *2	See Instruction for use *2	VMware standard	VMware standard	No	N.A.	Supported (V10L60 or later)	*2 Please use BIOS/Firmware/Driver which are supported by HBA or Server vendor.
		Direct	LSISAS3442E-R	See Instruction for use *2	See Instruction for use *2	VMware standard	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	
		Direct	LSI SAS9200-8e	See Instruction for use *2	See Instruction for use *2	VMware standard	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L60 or later)	

Server	VMware vSphere 6.0	Connected Type	HBA				Path Failover	Boot	Model		Instruction for use
			model name	BIOS version	Firmware version	Driver version			DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	VMware vSphere 6.0 (ESXi 6.0) GA/U1/U2	Direct	PY-SC3FE S26361-F3845-L501	See Instruction for use *1	See Instruction for use *1	VMware standard	VMware standard	No	N.A.	Supported (V10L50 or later)	*1 Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
		Direct	PG-228B/PG-228BL/ PY-SC1Y0 S26361-F3271-L1 S26361-F3271-L201	See Instruction for use *1	See Instruction for use *1	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
			PG-22DC/PG-22DCU/ PY-SC2Z0 S26361-F3628-L501	See Instruction for use *1	See Instruction for use *1	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L50 or later)	
		SW-Blade	PY-SCD08/PYBSCD082 S26361-F4480-L1/E1	See Instruction for use *1	See Instruction for use *1	VMware standard	VMware standard	No	N.A.	Supported (V10L50 or later)	
Other Companies' Servers	VMware vSphere 6.0 (ESXi 6.0) GA/U1/U2	Direct	LSI SAS9300-8e	See Instruction for use *2	See Instruction for use *2	VMware standard	VMware standard	No	N.A.	Supported (V10L56 or later)	*2 Please use BIOS/Firmware/Driver which are supported by HBA or Server vendor.
		Direct/ via switch	LSISAS3442E-R	6.30.00.00 or later	1.30.41.00-IT	VMware standard	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	
		Direct	LSI SAS9200-8e	7.07.00.00 or later	5.00.13.00-IT or later	VMware standard	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	
		via Switch	LSI SAS9200-8e	7.07.00.00 or later	5.00.13.00-IT or later	VMware standard	VMware standard	Yes	N.A.	Supported (V10L50 or later)	

Server	VMware vSphere 5	Connected Type	HBA				Path Follower	Boot	Model		Instruction for use
			model name	BIOS version	Firmware version	Driver version			DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	VMware vSphere 5.5 (ESXi 5.5) Update 2/Update 3	Direct	PY-SC3FE S26361-F3845-L501	See Instruction for use *1	See Instruction for use *1	VMware standard	VMware standard	No	N.A.	Supported (V10L56 or later)	*1 Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
	VMware vSphere 5.5 (ESXi 5.5) Update 1/Update 2/ Update 3	SW-Blade	PY-SCD08/PYBSCD082 S26361-F4480-L1/E1	See Instruction for use *1	See Instruction for use *1	VMware standard	VMware standard	No	N.A.	Supported (V10L52 or later)	
		Direct	PG-228B/PG-228BL/ PY-SC1Y0 S26361-F3271-L1 S26361-F3271-L201	See Instruction for use *1	See Instruction for use *1	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
			PG-22DC/PG-22DCL/ PY-SC2Z0 S26361-F3628-L501	See Instruction for use *1	See Instruction for use *1	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	*1 Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
	VMware vSphere 5.5 (ESXi 5.5)	Direct	PG-228B/PG-228BL/ PY-SC1Y0 S26361-F3271-L1 S26361-F3271-L201	See Instruction for use *1	See Instruction for use *1	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
			PG-22DC/PG-22DCL/ PY-SC2Z0 S26361-F3628-L501	See Instruction for use *1	See Instruction for use *1	VMware standard	VMware standard	No	Supported (V20L16 or later)	Supported (V10L52 or later)	
		SW-Blade	PY-SCD08/PYBSCD082 S26361-F4480-L1/E1	See Instruction for use *1	See Instruction for use *1	VMware standard	VMware standard	No	N.A.	Supported (V10L52 or later)	
Other Companies' Servers	VMware vSphere 5.5 (ESXi 5.5) Update 2/Update 3	Direct	LSI SAS9300-8e	See Instruction for use *2	See Instruction for use *2	VMware standard	VMware standard	No	N.A.	Supported (V10L56 or later)	*2 Please use BIOS/Firmware/Driver which are supported by HBA or Server vendor.
	VMware vSphere 5.5 (ESXi 5.5) Update 1/Update 2/ Update 3	Direct/ via switch	LSISAS3442E-R	6.30.00.00 or later	1.30.41.00-IT	VMware standard	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	
		Direct	LSI SAS9200-8e	7.07.00.00 or later	5.00.13.00-IT or later	VMware standard	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	
		via Switch	LSI SAS9200-8e	7.07.00.00 or later	5.00.13.00-IT or later	VMware standard	VMware standard	Yes	N.A.	Supported (V10L50 or later)	
	VMware vSphere 5.5 (ESXi 5.5)	Direct/ via switch	LSISAS3442E-R	6.30.00.00 or later	1.30.41.00-IT	VMware standard	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	
		Direct	LSI SAS9200-8e	7.07.00.00 or later	5.00.13.00-IT or later	VMware standard	VMware standard	Yes	Supported (V20L16 or later)	Supported (V10L50 or later)	
		via Switch	LSI SAS9200-8e	7.07.00.00 or later	5.00.13.00-IT or later	VMware standard	VMware standard	Yes	N.A.	Supported (V10L50 or later)	

Server	VMware vSphere 5	Connected Type	HBA				Path Failover	Boot	Model		Instruction for use
			model name	BIOS version	Firmware version	Driver version			DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	VMware vSphere 5.1 (ESXi 5.1) Update 2/Update 3	Direct	PY-SC3FE S26361-F3845-L501	See Instruction for use *1	See Instruction for use *1	VMware standard	VMware standard	No	N.A.	Supported (V10L56 or later)	*1 Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
	VMware vSphere 5.1 (ESXi 5.1) Update 1/Update 2/ Update 3	Direct	PG-228B/PG-228BL/ PY-SC1Y0 S26361-F3271-L1 S26361-F3271-L201	6.30.00.00 or later	1.30.41.00-IT	VMware standard	VMware standard	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
			PG-22DC/PG-22DCL/ PY-SC2Z0 S26361-F3628-L501	7.07.00.00 or later	10.00.00.00-IT or later	VMware standard	VMware standard	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
		SW-Blade	PY-SCD08/PYBSCD082 S26361-F4480-L1/E1	7.11.00.00 or later	7.00.00.00-IT or later	VMware standard	VMware standard	No	N.A.	Supported (V10L50 or later)	
	VMware vSphere 5.1 (ESXi 5.1)	Direct	PG-228B/PG-228BL/ PY-SC1Y0 S26361-F3271-L1 S26361-F3271-L201	6.30.00.00 or later	1.30.41.00-IT	VMware standard	VMware standard	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
			PG-22DC/PG-22DCL/ PY-SC2Z0 S26361-F3628-L501	7.07.00.00 or later	10.00.00.00-IT or later	VMware standard	VMware standard	No	Supported (V20L13 or later)	Supported (V10L35 or later)	
Other Companies' Servers	VMware vSphere 5.1 (ESXi 5.1) Update 2/Update 3	Direct	LSI SAS9300-8e	See Instruction for use *2	See Instruction for use *2	VMware standard	VMware standard	No	N.A.	Supported (V10L56 or later)	*2 Please use BIOS/Firmware/Driver which are supported by HBA or Server vendor.
	VMware vSphere 5.1 (ESXi 5.1) Update 1/Update 2/ Update 3	Direct	LSISAS3442E-R	6.30.00.00 or later	1.30.41.00-IT	VMware standard	VMware standard	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	
			LSI SAS9200-8e	7.07.00.00 or later	5.00.13.00-IT or later	VMware standard	VMware standard	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	
	VMware vSphere 5.1 (ESXi 5.1)	Direct	LSISAS3442E-R	6.30.00.00 or later	1.30.41.00-IT	VMware standard	VMware standard	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	
			LSI SAS9200-8e	7.07.00.00 or later	5.00.13.00-IT or later	VMware standard	VMware standard	Yes	Supported (V20L13 or later)	Supported (V10L35 or later)	

Server	VMware vSphere 5	Connected Type	HBA				Path Failover	Boot	Model		Instruction for use
			model name	BIOS version	Firmware version	Driver version			DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	VMware vSphere 5.0 (ESXi 5.0) Update1/Update2	Direct	PG-228B/PG-228BL/ PY-SC1Y0 S26361-F3271-L1 S26361-F3271-L201	6.30.00.00	1.30.41.00-IT	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L16 or later)	
		Direct	PG-22DC/PG-22DCL/ PY-SC2Z0 S26361-F3628-L501	7.07.00.00	10.00.00.00-IT or later	VMware standard	VMware standard	No	Supported (V20L12 or later)	Supported (V10L20 or later)	
		SW-Blade	PY-SCD08/PYBSCD082 S26361-F4480-L1/E1	7.11.00.00 or later	7.00.00.00-IT or later	VMware standard	VMware standard	No	N.A.	Supported (V10L50 or later)	
	VMware vSphere 5.0 (ESXi 5.0)	Direct	PG-228B/PG-228BL/ S26361-F3271-L1/ S26361-F3271-L201	6.30.00.00	1.30.41.00-IT	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L16 or later)	
		Direct	PG-22DC/PG-22DCL/ PY-SC2Z0 S26361-F3628-L501	7.07.00.00	10.00.00.00-IT or later	VMware standard	VMware standard	No	Supported (V20L12 or later)	Supported (V10L20 or later)	
		SW-Blade	PY-SCD08/PYBSCD082 S26361-F4480-L1/E1	7.11.00.00 or later	7.00.00.00-IT or later	VMware standard	VMware standard	No	N.A.	Supported (V10L50 or later)	
Other Companies' Servers	VMware vSphere 5.0 (ESXi 5.0) Update1/Update2	Direct	LSISAS3442E-R	6.30.00.00	1.30.41.00-IT	VMware standard	VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	
		Direct	LSI SAS9200-8e	7.07.00.00	5.00.13.00-IT	VMware standard	VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L20 or later)	
	VMware vSphere 5.0 (ESXi 5.0)	Direct	LSISAS3442E-R	6.30.00.00	1.30.41.00-IT	VMware standard	VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L16 or later)	
		Direct	LSI SAS9200-8e	7.07.00.00	5.00.13.00-IT	VMware standard	VMware standard	Yes	Supported (V20L10 or later)	Supported (V10L20 or later)	

Server	VMware vSphere 4	Connected Type	HBA				Path Follower	Boot	Model		Instruction for use
			model name	BIOS version	Firmware version	Driver version			DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	VMware vSphere 4.1 (ESX 4.1/ESXi 4.1) Update 1/Update 2/ Update 3	Direct	PG-228B/PG-228BL/ S26361-F3271-L1/ S26361-F3271-L201	6.30.00.00	1.30.41.00-IT	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
		Direct	PG-22DC/PG-22DCL	7.07.00.00	10.00.00.00-IT or later	VMware standard	VMware standard	No	N.A.	Supported (V10L11 or later)	
		SW-Blade	PY-SCD08/PYBSCD082 S26361-F4480-L1/E1	7.11.00.00 or later	7.00.00.00-IT or later	VMware standard	VMware standard	No	N.A.	Supported (V10L50 or later)	
	VMware vSphere 4 (ESX 4.1/ESXi 4.1)	Direct	PG-228B/PG-228BL/ S26361-F3271-L1/ S26361-F3271-L201	6.26.00.00	1.27.41.00-IT	VMware standard	VMware standard	No	Supported (V20L10 or later)	-	
					1.30.40.00		VMware standard		Supported (V20L10 or later)	-	Host Affinity function can not be used. Please disable Host Affinity function.
				6.30.00.00	1.30.41.00	VMware standard	VMware standard		Supported (V20L10 or later)	Supported (V10L11 or later)	
		SW-Blade	PY-SCD08/PYBSCD082 S26361-F4480-L1/E1	7.11.00.00 or later	7.00.00.00-IT or later	VMware standard	VMware standard	No	N.A.	Supported (V10L50 or later)	
	VMware vSphere 4 (ESX 4.0/ESXi 4.0) Update 2/ Update 3/ Update 4	Direct	PG-228B/PG-228BL/ S26361-F3271-L1/ S26361-F3271-L201	6.30.00.00	1.30.41.00-IT	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
	VMware vSphere 4 (ESX 4.0/ESXi 4.0) Update 1/Update 2/ Update 3/Update 4	Direct	PG-228B/PG-228BL/ S26361-F3271-L1/ S26361-F3271-L201	6.30.00.00	1.30.41.00-IT	VMware standard	VMware standard	No	Planned 2	Supported (V10L11 or later)	
		Direct	PG-22DC/PG-22DCL	7.07.00.00	10.00.00.00-IT or later	VMware standard	VMware standard	No	N.A.	Supported (V10L11 or later)	
	VMware vSphere 4 (ESX 4.0/ESXi 4.0)	Direct	PG-228B/PG-228BL/ S26361-F3271-L1/ S26361-F3271-L201	6.26.00.00	1.27.41.00-IT	VMware standard	VMware standard	No	Supported (V20L10 or later)	-	
					1.30.40.00				Supported (V20L10 or later)	-	Host Affinity function can not be used. Please disable Host Affinity function.
				6.30.00.00	1.30.41.00				Planned 2	Supported (V10L11 or later)	
Other Companies' Servers	VMware vSphere 4.1 (ESX 4.1/ESXi 4.1) Update 1/Update 2/ Update 3	Direct	LSISAS3442E-R	6.34.00.00	1.32.00.00	VMware standard	VMware standard	Yes	Planned 2	-	
				6.30.00.00	1.30.41.00-IT	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
		Direct via switch (LSI SAS6160/6161)	LSI SAS9200-8e	7.17.00.00	9.00.00.00	09.00.00.00- 1.vmw	VMware standard	See Instruction for use	Planned 2	Supported (V10L11 or later)	Local boot will be supported by end of July, 2011. SAN boot will be supported 2011.4Q.
				7.17.00.00	9.00.00.00	09.00.00.00- 1.vmw	VMware standard		N.A.	Planned 2	
	VMware vSphere 4 (ESX 4.1/ESXi 4.1)	Direct	LSISAS3442E-R	6.26.00.00	1.27.41.00	VMware standard	VMware standard	Yes	Supported (V20L10 or later)	-	
				6.30.00.00	1.30.40.00	VMware standard	VMware standard		Supported (V20L10 or later)	-	Host Affinity function can not be used. Please disable Host Affinity function. VMware editions supported by VMware VAMP are "Enterprise" and "Enterprise Plus"
	VMware vSphere 4 (ESX 4.0/ESXi 4.0) Update 2/ Update 3/ Update 4	Direct	LSISAS3442E-R	6.30.00.00	1.30.41.00-IT	VMware standard	VMware standard	No	Supported (V20L10 or later)	Supported (V10L11 or later)	
	VMware vSphere 4 (ESX 4.0/ESXi 4.0) Update 1 / Update 2/ Update 3/ Update 4	Direct	LSISAS3442E-R	6.26.00.00	1.27.41.00	VMware standard	VMware standard	Yes	Supported (V20L10 or later)	-	
				6.30.00.00	1.30.40.00				Supported (V20L10 or later)	-	Host Affinity function can not be used. Please disable Host Affinity function.
		Direct/ via switch (LSI SAS6160/6161)	LSI SAS9200-8e	6.34.00.00	1.32.00.00	VMware standard	VMware standard	Yes	Planned 2	Supported (V10L11 or later)	
		Direct via switch (LSI SAS6160/6161)		7.17.00.00	9.00.00.00	09.00.00.00- 1.vmw	VMware standard	See Instruction for use	Planned 2	Supported (V10L11 or later)	Local boot will be supported by end of July, 2011. SAN boot will be supported 2011.4Q.
				7.17.00.00	9.00.00.00	09.00.00.00- 1.vmw			N.A.	Planned 2	
	VMware vSphere 4 (ESX 4.0/ESXi 4.0)	Direct	LSISAS3442E-R	6.26.00.00	1.27.41.00-IT	VMware standard	VMware standard	Yes	Supported (V20L10 or later)	-	
				6.34.00.00	1.32.00.00	VMware standard	VMware standard	Yes	Planned 2	Supported (V10L11 or later)	

Note

FCoE-FCoE(switch) connection : This sheet is for the system of connection of Server(CNA card) -- FCoE switch - ETERNUS FCoE port.

Server	VMware vSphere 6	Connection type			HBA				Path Failover	SAN boot	Model	Instruction for uses
		via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6720/6730, NOS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE Driver version			DX80 S2 DX90 S2	
PRIMEQUEST 2000 Series	VMware vSphere 6.5 (ESXi 6.5) GA	Supported	Supported	Supported	MC-0JCE6*/ MC-0JCE9*	See Instruction for use	See Instruction for use	VMware standard	VMware standard	See Instruction for use	Supported (V10L60 or later)	- Please ask availability of iSCSI boot to Server side. - Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST2000 series.
	VMware vSphere 6.0 (ESXi 6.0) GA/U1/U2	Supported	Supported	Supported	MC-0JCE6*	See Instruction for use	See Instruction for use	VMware standard	VMware standard	See Instruction for use	Supported (V10L60 or later)	- Please ask availability of iSCSI boot to Server side. - Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST2000 series.
PRIMERGY	VMware vSphere 6.0 (ESXi 6.0) GA/U1/U2	Supported	Supported	Supported	PG-292(BL)/ PY-CN202 S26361-F3592-L2/E2	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L50 or later)	- Please ask availability of iSCSI boot to Server side. - Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
		Supported	Supported	Supported	MC-CNA102E	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L50 or later)	
Other Companies' Servers	VMware vSphere 6.0 (ESXi 6.0) GA/U1/U2	Supported	Supported	Supported	OCe10102 HP: NC551/NC551m CN1000E	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L50 or later)	- Please ask availability of iSCSI boot to Server side. - Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
		Supported	Planned 2	Supported	QLE8140/QLE8142	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L50 or later)	
		Supported	Planned 2	Supported	QLE8150/QLE8152	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L50 or later)	

Server	VMware vSphere 5	Connection type			HBA				Path Failover	SAN boot	Model	Instruction for uses
		via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6720/6730, NOS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE Driver version			DX80 S2 DX90 S2	
PRIMEQUEST 2000 series (PQ2800E2/PQ2800L2/ PQ2400E2/PQ2400L2/ PQ2400S2/PQ2400S2 Lite/ PQ2800B2/ PQ2800E/PQ2800L/ PQ2400E/PQ2400L/ PQ2400S/PQ2400S Lite/ PQ2800B only)	VMware vSphere 5.5 (ESXi 5.5) Update2	Supported	Supported	Supported	MC-0JCE6*	See Instruction for use	See Instruction for use	VMware standard	VMware standard	See Instruction for use	Supported (V10L60 or later)	- Please ask availability of iSCSI boot to Server side. - Please use BIOS/Firmware/Driver which are supported by PRIMEQUEST2000 series.
PRIMERGY	VMware vSphere 5.5 (ESXi 5.5) Update 1/Update 2/ Update 3	Supported	Supported	Supported	PY-CND02 S26361-F3552-L532	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L52 or later)	- Please ask availability of SAN boot to Server side. - Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
		Supported	Supported	Supported	PG-292(BL)/ PY-CN202 S26361-F3592-L2/E2	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L52 or later)	
		Supported	Supported	Supported	MC-CNA102E	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L52 or later)	
	VMware v Sphere 5.5 (ESXi 5.5)	Supported	Supported	Supported	PG-292(BL)/ PY-CN202 S26361-F3592-L2/E2	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L52 or later)	
		Supported	Supported	Supported	MC-CNA102E	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L52 or later)	
Other Companies' Servers	VMware vSphere 5.5 (ESXi 5.5) Update 1/Update 2/ Update 3	Supported	Supported	Supported	OCe10102 HP: NC551/NC551m CN1000E	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L50 or later)	- Please ask availability of iSCSI boot to Server side. - Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
		Supported	Planned 2	Supported	QLE8140/QLE8142	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L50 or later)	
		Supported	Planned 2	Supported	QLE8150/QLE8152	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L50 or later)	
	VMware v Sphere 5.5 (ESXi 5.5)	Supported	Supported	Supported	OCe10102 HP: NC551/NC551m CN1000E	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L50 or later)	- Please ask availability of iSCSI boot to Server side. - Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
		Supported	Planned 2	Supported	QLE8140/QLE8142	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L50 or later)	
		Supported	Planned 2	Supported	QLE8150/QLE8152	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L50 or later)	

Server	VMware vSphere 5	Connection type			HBA				Path Fallover	SAN boot	Model	Instruction for uses
		via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6720/6730, NOS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE Driver version			DX80 S2 DX90 S2	
PRIMERGY	VMware vSphere 5.1 (ESXi 5.1) Update 2/Update 3	Supported	Supported	Supported	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5302-L211 S26361-F5302-E211	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L60 or later)	SAN boot may not be available due to server side restriction. Please check SAN boot support status of server. - Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
	VMware vSphere 5.1 (ESXi 5.1) Update 1/Update 2/ Update 3	Supported	Supported	Supported	PG-292(BL)/ PY-CN202 S26361-F3592-L2/E2	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L35 or later)	
		Supported	Supported	Supported	MC-CNA102E	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L35 or later)	
	VMware vSphere 5.1 (ESXi 5.1)	Supported	Supported	Supported	PG-292(BL)/ PY-CN202 S26361-F3592-L2/E2	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L35 or later)	
		Supported	Supported	Supported	MC-CNA102E	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L35 or later)	
Other Companies' Servers	VMware vSphere 5.1 (ESXi 5.1) Update 2/Update 3	Supported	Supported	Supported	Oce14102	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L60 or later)	SAN boot may not be available due to server side restriction. Please check SAN boot support status of server. - Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
	VMware vSphere 5.1 (ESXi 5.1) Update 1/Update 2/ Update 3	Supported	Supported	Supported	OCe10102 HP: NC551/NC551m CN1000E	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L35 or later)	
		Supported	Planned 2	Supported	QLE8140/QLE8142	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L35 or later)	
		Supported	Planned 2	Supported	QLE8150/QLE8152	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L35 or later)	
	VMware vSphere 5.1 (ESXi 5.1)	Supported	Supported	Supported	OCe10102 HP: NC551/NC551m CN1000E	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L35 or later)	
		Supported	Planned 2	Supported	QLE8140/QLE8142	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L35 or later)	
		Supported	Planned 2	Supported	QLE8150/QLE8152	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L35 or later)	

Server	VMware vSphere 5	Connection type			HBA				Path Failover	SAN boot	Model	Instruction for uses
		via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6720/6730, NOS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE Driver version			DX80 S2 DX90 S2	
PRIMERGY	VMware vSphere 5.0 (ESXi 5.0) Update 1/Update 2	Supported	Supported	Supported	PG-292(BL)/ PY-CN202 S26361-F3592-L2/E2	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L22 or later)	SAN boot may not be available due to server side restriction. Please check SAN boot support status of server. - Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
		Supported	Supported	Supported	MC-CNA102E	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L22 or later)	
	VMware vSphere 5.0 (ESXi 5.0)	Supported	Supported	Supported	S26361-F3592-L2/L202/ PG-292B/L/ PY-CN202	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L22 or later)	
		Supported	Supported	Supported	MC-CNA102E	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L22 or later)	
Other Companies' Servers	VMware vSphere 5.0 (ESXi 5.0) Update 1/Update 2	Supported	Supported	Supported	OCe10102 HP: NC551/NC551m CN1000E	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L22 or later)	SAN boot may not be available due to server side restriction. Please check SAN boot support status of server. - Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
		Supported	Planned 2	Supported	QLE8140/QLE8142	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L20 or later)	
		Supported	Planned 2	Supported	QLE8150/QLE8152	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L22 or later)	
	VMware vSphere 5.0 (ESXi 5.0)	Supported	Supported	Supported	OCe10102 HP: NC551/NC551m CN1000E	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L22 or later)	
		Supported	Planned 2	Supported	QLE8140/QLE8142	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L20 or later)	
		Supported	Planned 2	Supported	QLE8150/QLE8152	See Instruction for use	See Instruction for use	VMware standard	VMware standard	Yes	Supported (V10L22 or later)	

Server	VMware vSphere 4	Connection type			HBA				Path Failover	SAN boot	Model	Instruction for uses
		via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6720/6730, NOS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE Driver version			DX80 S2 DX90 S2	
PRIMERGY	VMware vSphere 4.1 (ESX 4.1/ESXi 4.1) Update 1/Update 2/ Update 3	Supported	Supported	Supported	S26361-F3592-L2/L202/ PG-292B/L/ PY-CN202	4.02a7	2.703.397.1	8.2.1.90.28	VMware standard	No	Supported (V10L11 or later)	
		Supported	Supported	Supported	MC-CNA102E	–	–	8.2.1.90.28	VMware standard	No	Supported (V10L11 or later)	
	VMware vSphere 4 (ESX 4.0) Update 1/Update 2/ Update 3/Update 4	Supported	Supported	Supported	S26361-F3592-L2/L202/ PG-292B/L/ PY-CN202	4.02a7	2.703.397.1	8.2.0.90.28	VMware standard	No	Supported (V10L11 or later)	
		Supported	Supported	Supported	MC-CNA102E	–	–	8.2.0.90.28	VMware standard	No	Supported (V10L11 or later)	
Other Companies' Servers	VMware vSphere 4.1 (ESX 4.1/ESXi 4.1) Update 1/Update 2/ Update 3	Supported	Supported	Supported	OCe10102 HP: NC551/NC551m CN1000E	4.02a7	2.703.397.1	8.2.1.90.28	VMware standard	No	Supported (V10L11 or later)	
		Supported	Planned 2	Supported	QLE8140/QLE8142	–	–	VMware standard	VMware standard	No	Supported (V10L11 or later)	
		Supported	Planned 2	Supported	QLE8150/QLE8152	–	–	VMware standard	VMware standard	No	Supported (V10L11 or later)	
	VMware vSphere 4 (ESX 4.0/ESXi 4.0) Update 1/Update 2/ Update 3/ Update 4	Supported	Planned 2	Supported	OCe10102 HP: NC551/NC551m CN1000E	4.02a7	2.703.397.1	8.2.0.90.28	VMware standard	No	Supported (V10L11 or later)	

Note

FC-FCoE(switch) connection : This sheet is for the system of connection of Servers(CNA card) -- FCoE switch - ETERNUS FC port.

Server	VMware vSphere 6	Connection type			HBA				Path Failover	SAN boot	Model		Instruction for uses
		via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6730, NOS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE Driver version			DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	VMware vSphere 6.0 (ESXi 6.0) GA/U1/U2	Supported	Supported	Supported	PG-292(BL)/ PY-CN202 S26361-F3592-L2/E2	See Instruction for use	See Instruction for use	VMware standard	VMware standard	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	- Please ask availability of SAN boot to Server side. - Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
		Supported	Supported	Supported	MC-CNA102E	See Instruction for use	See Instruction for use	VMware standard	VMware standard	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	
Other Companies' Servers	VMware v Sphere 6.0 (ESXi 6.0) GA/U1/U2	Supported	Supported	Supported	OCe10102 HP: NC551/NC551m CN1000E	See Instruction for use	See Instruction for use	VMware standard	VMware standard	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	- Please ask availability of SAN boot to Server side. - Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.

Server	VMware vSphere 5	Connection type			HBA				Path Failover	SAN boot	Model		Instruction for uses
		via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6730, NOS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE Driver version			DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	VMware vSphere 5.5 (ESXi 5.5) Update 1/Update 2/ Update 3	Supported	Supported	Supported	PY-CND02 S26361-F3552-L532	See Instruction for use	See Instruction for use	VMware standard	VMware standard	See Instruction for use	Supported (V20L16 or later)	Supported (V10L52 or later)	- Please ask availability of SAN boot to Server side. - Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
		Supported	Supported	Supported	PG-292(BL)/ PY-CN202 S26361-F3592-L2/E2	See Instruction for use	See Instruction for use	VMware standard	VMware standard	See Instruction for use	Supported (V20L16 or later)	Supported (V10L52 or later)	
		Supported	Supported	Supported	MC-CNA102E	See Instruction for use	See Instruction for use	VMware standard	VMware standard	See Instruction for use	Supported (V20L16 or later)	Supported (V10L52 or later)	
	VMware v Sphere 5.5 (ESXi 5.5)	Supported	Supported	Supported	PG-292(BL)/ PY-CN202 S26361-F3592-L2/E2	See Instruction for use	See Instruction for use	VMware standard	VMware standard	See Instruction for use	Supported (V20L16 or later)	Supported (V10L52 or later)	
		Supported	Supported	Supported	MC-CNA102E	See Instruction for use	See Instruction for use	VMware standard	VMware standard	See Instruction for use	Supported (V20L16 or later)	Supported (V10L52 or later)	
Other Companies' Servers	VMware vSphere 5.5 (ESXi 5.5) Update 1/Update 2/ Update 3	Supported	Supported	Supported	OCe10102 HP: NC551/NC551m CN1000E	See Instruction for use	See Instruction for use	VMware standard	VMware standard	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	- Please ask availability of SAN boot to Server side. - Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
	VMware v Sphere 5.5 (ESXi 5.5)	Supported	Supported	Supported	OCe10102 HP: NC551/NC551m CN1000E	See Instruction for use	See Instruction for use	VMware standard	VMware standard	See Instruction for use	Supported (V20L16 or later)	Supported (V10L50 or later)	- Please ask availability of SAN boot to Server side. - Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.

Server	VMware vSphere 5	Connection type			HBA				Path Fallover	SAN boot	Model		Instruction for uses
		via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6730, NOS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE Driver version			DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	VMware vSphere 5.1 (ESXi 5.1) Update 1/Update 2/ Update 3	Supported	Supported	Supported	PG-292(BL/ PY-CN202 S26361-F3592-L2/E2	See instruction for use	See instruction for use	VMware standard	VMware standard	See instruction for use	Supported (V20L13 or later)	Supported (V10L35 or later)	- Please ask availability of SAN boot to Server side. - Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
		Supported	Supported	Supported	MC-CNA102E	See instruction for use	See instruction for use	VMware standard	VMware standard	See instruction for use	Supported (V20L13 or later)	Supported (V10L35 or later)	
	VMware v Sphere 5.1 (ESXi 5.1)	Supported	Supported	Supported	PG-292(BL/ PY-CN202 S26361-F3592-L2/E2	See instruction for use	See instruction for use	VMware standard	VMware standard	See instruction for use	Supported (V20L13 or later)	Supported (V10L35 or later)	
		Supported	Supported	Supported	MC-CNA102E	See instruction for use	See instruction for use	VMware standard	VMware standard	See instruction for use	Supported (V20L13 or later)	Supported (V10L35 or later)	
Other Companies' Servers	VMware vSphere 5.1 (ESXi 5.1) Update 1/Update 2/ Update 3	Supported	Supported	Supported	OCe10102 HP: NC551/NC551m CN1000E	See instruction for use	See instruction for use	VMware standard	VMware standard	See instruction for use	Supported (V20L13 or later)	Supported (V10L35 or later)	- Please ask availability of SAN boot to Server side. - Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
	VMware v Sphere 5.1 (ESXi 5.1)	Supported	Supported	Supported	OCe10102 HP: NC551/NC551m CN1000E	See instruction for use	See instruction for use	VMware standard	VMware standard	See instruction for use	Supported (V20L13 or later)	Supported (V10L35 or later)	

Server	VMware vSphere 5	Connection type			HBA				Path Fallover	SAN boot	Model		Instruction for uses
		via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6730, NOS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE Driver version			DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	VMware v Sphere 5.0 (ESXi 5.0) Update 1/Update 2	Supported	Supported	Supported	S26361-F3592-L2/L202/ PG-292B/L/ PY-CN202	See instruction for use	See instruction for use	VMware standard	VMware standard	No	Supported (V20L12 or later)	Supported (V10L22 or later)	- Please use BIOS/Firmware/Driver which are supported by PRIMERGY.
		Supported	Supported	Supported	MC-CNA102E	See instruction for use	See instruction for use	VMware standard	VMware standard	No	Supported (V20L12 or later)	Supported (V10L22 or later)	
	VMware v Sphere 5.0 (ESXi 5.0)	Supported	Supported	Supported	S26361-F3592-L2/L202/ PG-292B/L/ PY-CN202	See instruction for use	See instruction for use	VMware standard	VMware standard	No	Supported (V20L12 or later)	Supported (V10L22 or later)	
		Supported	Supported	Supported	MC-CNA102E	See instruction for use	See instruction for use	VMware standard	VMware standard	No	Supported (V20L12 or later)	Supported (V10L22 or later)	
Other Companies' Servers	VMware v Sphere 5.0 (ESXi 5.0) Update 1/Update 2	Supported	Supported	Supported	OCe10102 HP: NC551/NC551m CN1000E	See instruction for use	See instruction for use	VMware standard	VMware standard	No	Supported (V20L12 or later)	Supported (V10L22 or later)	- Please use BIOS/Firmware/Driver which are supported by server vendor and CNA vendor.
	VMware v Sphere 5.0 (ESXi 5.0)	Supported	Supported	Supported	OCe10102 HP: NC551/NC551m CN1000E	See instruction for use	See instruction for use	VMware standard	VMware standard	No	Supported (V20L12 or later)	Supported (V10L22 or later)	

Server	VMware vSphere 4	Connection type			HBA				Path Failover	SAN boot	Model		Instruction for uses
		via Switch (Brocade 8000 or Brocade FCoE blade only, Fabric OS is v6.3.1a)	via Switch (Brocade VDX6730, NOS v2.1.1)	via Switch Cisco Nexus5000	Model name	BIOS version/ EFI driver version	Firmware version	FC and FCoE Driver version			DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	VMware vSphere 4.1 (ESX 4.1/ESXi 4.1) Update 1/Update 2/ Update 3	Supported	Supported	Supported	S26361-F3592-L2/L202/ PG-292B/L/ PY-CN202	Note 1	Note 1	VMware standard	VMware standard	No	Supported (V20L12 or later)	Supported (V10L22 or later)	
		Supported	Supported	Supported	MC-CNA102E	Note 1	Note 1	VMware standard	VMware standard	No	Supported (V20L12 or later)	Supported (V10L22 or later)	
	VMware vSphere 4 (ESX 4.0) Update 1/Update 2/ Update 3/ Update 4	Supported	Supported	Supported	S26361-F3592-L2/L202/ PG-292B/L/ PY-CN202	Note 1	Note 1	VMware standard	VMware standard	No	Supported (V20L12 or later)	Supported (V10L22 or later)	
		Supported	Supported	Supported	MC-CNA102E	Note 1	Note 1	VMware standard	VMware standard	No	Supported (V20L12 or later)	Supported (V10L22 or later)	
Other Companies' Servers	VMware vSphere 4.1 (ESX 4.1/ESXi 4.1) Update 1/Update 2/ Update 3	Supported	Supported	Supported	OCe10102 HP: NC551/NC551m CN1000E	Note 2	Note 2	VMware standard	VMware standard	No	Supported (V20L12 or later)	Supported (V10L22 or later)	
	VMware vSphere 4 (ESX 4.0/ESXi 4.0) Update 1/Update 2/ Update 3/ Update 4	Supported	Supported	Supported	OCe10102 HP: NC551/NC551m CN1000E	Note 2	Note 2	VMware standard	VMware standard	No	Supported (V20L12 or later)	Supported (V10L22 or later)	

Note 1: Please use BIOS/Firmware/Driver which are supported by PRIMERGY.

Note 2: Please use BIOS/Firmware/Driver which are supported by server vendor and HBA vendor.

Notes

XenServer	HBA				Connected Type	Switch	Path Failover	SAN boot	Model		Instruction for use
	model name	BIOS version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	
XenServer 6.2.x	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	5.12a2	2.00a4	OS bundled	Direct/Via switch	Refer to "Switch pages" for supported FC switches.	XenServer standard	Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	The number of LUNs per server should be 128 or less.
	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	5.12a2	2.00a4	OS bundled	Direct/Via switch			Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	
	MC-FC82E PG-FCD202/PY-FCD02	3.11a5	2.00a4	OS bundled	Direct/Via switch			Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	
	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	Multiboot 2.16	-	OS bundled	Direct/Via switch			Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	
	LP11000/LP11002/LP1150 LPe11000/LPe11002/LPe1150 HP: FC2243/FC2143/FC2142SR/ FC2242SR/LPe1105-HP IBM: LP1105-BC	5.12a2	2.00a4	OS bundled	Direct/Via switch			Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	
	LPe12000/LPe12002/LPe1250 HP: AJ762A/AJ763A IBM: 42D0485/42D0494	5.12a2	2.00a4	OS bundled	Direct/Via switch			Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	
	QLA2460/QLA2462/ QLE2460/QLE2462/QLE2464 HP: FC1142SR/FC1242SR/ FC1143/FC1243/ QMH2462(403619-B21) IBM: 39R6525/39R6527 39M5894/39M5895 26R0890/26R0884	-	-	OS bundled	Direct/Via switch			Yes	Planned 2	Planned 2	
	QLE2560/QLE2562 HP: Ak344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Multiboot 2.16	-	OS bundled	Direct/Via switch			Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	

XenServer	HBA				Connected Type	Switch	Path Failover	SAN boot	Model		Instruction for use
	model name	BIOS version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	
XenServer 6.1.x	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	5.12a2	2.00a4	OS bundled	Direct/Via switch	Refer to "Switch pages" for supported FC switches.	XenServer standard	Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	The number of LUNs per server should be 128 or less.
	MC-FC82E PG-FC202/PY-FC202	3.11a5	2.00a4	OS bundled	Direct/Via switch			Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	
	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	Multiboot 2.16	-	OS bundled	Direct/Via switch			Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	
	LP11000/LP11002/LP1150 LPe11000/LPe11002/LPe1150 HP: FC2243/FC2143/FC2142SR/ FC2242SR/LPe1105-HP IBM: LP1105-BC	5.12a2	2.00a4	OS bundled	Direct/Via switch			Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	
	LPe12000/LPe12002/LPe1250 HP: AJ762A/AJ763A IBM: 42D0485/42D0494	5.12a2	2.00a4	OS bundled	Direct/Via switch			Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	
	QLA2460/QLA2462/ QLE2460/QLE2462/QLE2464 HP: FC1142SR/FC1242SR/ FC1143/FC1243/ QMH2462(403619-B21) IBM: 39R6525/39R6527 39M5894/39M5895 26R0890/26R0884	-	-	OS bundled	Direct/Via switch				Planned 2	Planned 2	
	QLE2560/QLE2562 HP: Ak344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Multiboot 2.16	-	OS bundled	Direct/Via switch			Yes	Supported (V20L14 or later)	Supported (V10L50 or later)	
XenServer 6.0.x	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	5.12a2	2.00a4	OS bundled	Direct/Via switch	Refer to "Switch pages" for supported FC switches.	XenServer standard	Yes	Supported (V20L10 or later)	Supported (V10L19 or later)	The number of LUNs per one server should be 96 or less.
	MC-FC82E PG-FC202/PY-FC202	3.11a5	2.00a4	8.3.5.39.1p	Direct/Via switch			Yes	Supported (V20L10 or later)	Supported (V10L19 or later)	
	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	Multiboot 2.16	-	8.03.07.03.55.6-k2	Direct/Via switch			Yes	Supported (V20L10 or later)	Supported (V10L19 or later)	
	LP11000/LP11002/LP1150 LPe11000/LPe11002/LPe1150 HP: FC2243/FC2143/FC2142SR/ FC2242SR/LPe1105-HP IBM: LP1105-BC	5.12a2	2.00a4	OS bundled	Direct/Via switch			Yes	Supported (V20L10 or later)	Supported (V10L19 or later)	
	LPe12000/LPe12002/LPe1250 HP: AJ762A/AJ763A IBM: 42D0485/42D0494	5.12a2	2.00a4	OS bundled	Direct/Via switch			Yes	Supported (V20L10 or later)	Supported (V10L19 or later)	
	QLA2460/QLA2462/ QLE2460/QLE2462/QLE2464 HP: FC1142SR/FC1242SR/ FC1143/FC1243/ QMH2462(403619-B21) IBM: 39R6525/39R6527 39M5894/39M5895 26R0890/26R0884	-	-	OS bundled	Direct/Via switch			Yes	Planned 2	Planned 2	
	QLE2560/QLE2562 HP: Ak344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Multiboot 2.16	-	8.03.07.03.55.6-k2	Direct/Via switch			Yes	Supported (V20L10 or later)	Supported (V10L19 or later)	

XenServer	HBA				Connected Type	Switch	Path Fallover	SAN boot	Model		Instruction for use
	model name	BIOS version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	
XenServer 5.6 SP2	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	5.12a2	2.00a4	8.3.5.39	Direct/via switch	Refer to "Switch pages" for supported FC switches.	XenServer standard	Yes	Supported (V20L10 or later)	Supported (V10L19 or later)	Please apply HotFix(CTX130751)
	MC-FC82E PG-FC202/PY-FC202	3.11a5	2.00a4	8.3.5.39	Direct/via switch			Yes	Supported (V20L10 or later)	Supported (V10L19 or later)	
	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	Multiboot 2.16	-	8.03.07.03.55.6-k	Direct/via switch			Yes	Planned 2	Planned 2	
	LP11000/LP11002/LP1150 LPe11000/LPe11002/LPe1150 HP: FC2243/FC2143/FC2142SR/ FC2242SR/LPe1105-HP IBM: LP1105-BC	5.12a2	2.00a4	8.3.5.39	Direct/via switch			Yes	Supported (V20L10 or later)	Supported (V10L19 or later)	
	LPe12000/LPe12002/LPe1250 HP: AJ762A/AJ763A IBM: 42D0485/42D0494	5.12a2	2.00a4	8.3.5.39	Direct/via switch			Yes	Supported (V20L10 or later)	Supported (V10L19 or later)	
	QLA2460/QLA2462/ QLE2460/QLE2462/QLE2464 HP: FC1142SR/FC1242SR/ FC1143/FC1243/ QMH2462(403619-B21) IBM: 39R6525/39R6527 39M5894/39M5895 26R0890/26R0884	-	-	OS bundled	Direct/via switch			Yes	Planned 2	Planned 2	
	QLE2560/QLE2562 HP: Ak344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	Multiboot 2.16	-	8.03.07.03.55.6-k	Direct/via switch			Yes	Planned 2	Planned 2	
XenServer 5.6 FP1	S26361-F3631-L1/ S26361-F3631-L2 / PG-FC205/PG-FC206	2.37	4.06.02	OS bundled	Direct/via switch	Refer to "Switch pages" for supported FC switches.	XenServer standard	Yes	Supported (V20L10 or later)	Planned 2	The number of LUNs per one server should be 64 or less.
	LP11000/LP11002/LP1150 LPe11000/LPe11002/LPe1150 HP: FC2243/FC2143/FC2142SR/ FC2242SR/LPe1105-HP IBM: LP1105-BC	2.02a2	2.82a3	OS bundled	Direct/via switch			Yes	-	Supported (V10L11 or later)	
	LPe12000/LPe12002/LPe1250 HP: AJ762A/AJ763A IBM: 42D0485/42D0494	2.02a2	2.82a3	OS bundled	Direct/via switch			Yes	-	Supported (V10L11 or later)	
	QLA2460/QLA2462/ QLE2460/QLE2462	1.94	4.06.02	OS bundled	Direct/via switch			Yes	Supported (V20L10 or later)	Planned 2	
	QLE2560/QLE2562 HP: Ak344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.37	4.06.02	OS bundled	Direct/via switch			Yes	Supported (V20L10 or later)	Planned 2	

XenServer	HBA				Connected Type	Switch	Path Failover	SAN boot	Model		Instruction for use
	model name	BIOS version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	
XenServer 5.6 GA	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	2.02a2	2.82a3	OS bundled	Direct/via switch	Refer to "Switch pages" for supported FC switches.	XenServer standard	No	Supported (V20L10 or later)	Supported (V10L11 or later)	The number of LUNs per one server should be 32 or less.
	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	2.02a2	1.11a5	OS bundled	Direct/via switch			No	Supported (V20L10 or later)	Supported (V10L11 or later)	
	S26361-F3306-L601 PG-FC201	3.03a11	2.82a3	OS bundled	Direct/via switch			No	Supported (V20L10 or later)	Supported (V10L11 or later)	
	MC-FC82E PG-FC202/PG-FC202	3.03a11	1.11a5	OS bundled	Direct/via switch			No	Supported (V20L10 or later)	Supported (V10L11 or later)	
	S26361-F3631-L1/ S26361-F3631-L2/ PG-FC205/PG-FC205L/ PG-FC206/PG-FC206L/ PY-FC211/PY-FC211L/ PY-FC212/PY-FC212L	2.16	4.06.02	OS bundled	Direct/via switch			No	Supported (V20L10 or later)	Supported (V10L11 or later)	
	LP11000/LP11002/LP1150 LPe11000/LPe11002/LPe1150 HP: FC2243/FC2143/FC2142SR/ FC2242SR/LPe1105-HP IBM: LP1105-BC	2.02a2	2.82a3	OS bundled	Direct/via switch	Refer to "Switch pages" for supported FC switches.	XenServer standard	No	Supported (V20L10 or later)	Supported (V10L11 or later)	The number of LUNs per one server should be 32 or less.
	LPe12000/LPe12002/LPe1250 HP: AJ762A/AJ763A IBM: 42D0485/42D0494	2.02a2	1.11a5	OS bundled	Direct/via switch			No	Supported (V20L10 or later)	Supported (V10L11 or later)	
	QLA2460/QLA2462/ QLE2460/QLE2462	2.1	4.06.02	OS bundled	Direct/via switch			No	Supported (V20L10 or later)	Planned 2	
		Multi-boot 1.94	—	OS bundled	Direct/via switch			No	Planned 2	Supported (V10L11 or later)	
	QLE2560/QLE2562 HP: Ak344A/AJ764A QMH2562/QMH2572 IBM: 42D0501/42D0510	2.1	4.06.02	OS bundled	Direct/via switch			No	Supported (V20L10 or later)	Planned 2	
XenServer 5.5 update2	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	2.02a2	2.82a3	OS bundled	Direct/via switch	Refer to "Switch pages" for supported FC switches.	XenServer standard	No	Supported (V20L10 or later)	Planned 2	
	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	2.02a2	1.11a5	OS bundled	Direct/via switch			No	Supported (V20L10 or later)	Planned 2	
	S26361-F3306-L601 PG-FC201	3.03a11	2.82a3	OS bundled	Direct/via switch			No	Supported (V20L10 or later)	Planned 2	
	MC-FC82E PG-FC202/PG-FC202	3.03a11	1.11a5	OS bundled	Direct/via switch			No	Supported (V20L10 or later)	Planned 2	
	LP11000/LP11002/LP1150 LPe11000/LPe11002/LPe1150 HP: FC2243/FC2143/FC2142SR/ FC2242SR/LPe1105-HP IBM: LP1105-BC	2.02a2	2.82a3	OS bundled	Direct/via switch	Refer to "Switch pages" for supported FC switches.	XenServer standard	No	Supported (V20L10 or later)	Planned 2	
	LPe12000/LPe12002/LPe1250 HP: AJ762A/AJ763A IBM: 42D0485/42D0494	2.02a2	1.11a5	OS bundled	Direct/via switch			No	Supported (V20L10 or later)	Planned 2	

Notes

- When connecting ETERNUS disk array and server on iSCSI via LAN switch, it is recommended that the speed of network adapter on server and ETERNUS iSCSI host adapter should be matched.

- Recommended example : 10Gbps LAN adapter - LAN switch - 10Gbps iSCSI host interface of ETERNUS

If the speed of network adapter on server and ETERNUS iSCSI host adapter are not matched, then transmission error may occur due to traffic congestion.

- Not recommended example : 10Gbps LAN adapter - LAN switch - 1Gbps host interface of ETERNUS.

iSCSI native connection

XenServer	Connected Type	HBA	Driver version	Path Failover	Cluster system	iSCSI Boot	Model		Instruction for use
							DX60 S2	DX80 S2 DX90 S2	
XenDesktop & XenServer 6.2.x	Direct / via switch	PG-284G/PG-284GL /PG-2841G(L)/ PGB284G/PGB284GL PY-LA242 S26361-F3629-L502/E2/E202	OS bundled	XenServer standard	—	No	Supported (V20L14 or later)	Supported (V10L50 or later)	Please ask server vendor for applicable XenDeskTop version.
	Direct / via switch	PG-2862/PY-LA222 S26361-F3610-L502	OS bundled	XenServer standard	—	No	Supported (V20L14 or later)	Supported (V10L50 or later)	
	Direct / via switch	PY-LA252/ PYBLA252/PYBLA252L S26361-F3752-L502/E2/E502	OS bundled	XenServer standard	—	No	Supported (V20L14 or later)	Supported (V10L50 or later)	
XenDesktop 4.0 & XenServer 6.1.x	Direct / via switch	PG-284G/PG-284GL /PG-2841G(L)/ PGB284G/PGB284GL PY-LA242 S26361-F3629-L502/E2/E202	OS bundled	XenServer standard	—	No	Supported (V20L14 or later)	Supported (V10L25 or later)	
	Direct / via switch	PG-2862/PY-LA222 S26361-F3610-L502	OS bundled	XenServer standard	—	No	Supported (V20L14 or later)	Supported (V10L25 or later)	
	Direct / via switch	PY-LA252/ PYBLA252/PYBLA252L S26361-F3752-L502/E2/E502	OS bundled	XenServer standard	—	No	Supported (V20L14 or later)	Supported (V10L50 or later)	
XenDesktop 4.0 & XenServer 6.0.x	Direct / via switch	PG-284G/PG-284GL /PG-2841G(L)/ PGB284G/PGB284GL PY-LA242 S26361-F3629-L502/E2/E202	OS bundled	XenServer standard	—	No	Supported (V20L14 or later)	Supported (V10L25 or later)	
	Direct / via switch	PG-2871/PY-LA234 S26361-F3611-L501	OS bundled	XenServer standard	—	No	Supported (V20L14 or later)	Supported (V10L25 or later)	
	Direct / via switch	PY-LA252/ PYBLA252/PYBLA252L S26361-F3752-L502/E2/E502	OS bundled	XenServer standard	—	No	Supported (V20L14 or later)	Supported (V10L50 or later)	

XenServer	Connected Type	HBA	Driver version	Path Failover	Cluster system	iSCSI Boot	Model		Instruction for use
							DX60 S2	DX80 S2 DX90 S2	
XenServer 6.2.x	Direct / via switch	Intel(R) Ethernet Server Adapter X520	OS bundled	XenServer standard	-	No	Supported (V20L14 or later)	Supported (V10L50 or later)	
	Direct / via switch	Intel® Ethernet I340 Server Adapter	OS bundled	XenServer standard	-	No	Supported (V20L14 or later)	Supported (V10L50 or later)	
	Direct / via switch	Intel(R) Ethernet X540	OS bundled	XenServer standard	-	No	Supported (V20L14 or later)	Supported (V10L50 or later)	
XenServer 6.1.x	Direct / via switch	Intel(R) Ethernet Server Adapter X520	OS bundled	XenServer standard	-	No	Supported (V20L14 or later)	Supported (V10L25 or later)	
	Direct / via switch	Intel® Ethernet I340 Server Adapter	OS bundled	XenServer standard	-	No	Supported (V20L14 or later)	Supported (V10L25 or later)	
	Direct / via switch	Intel(R) Ethernet X540	OS bundled	XenServer standard	-	No	Supported (V20L14 or later)	Supported (V10L50 or later)	
XenServer 6.0.x	Direct / via switch	Intel(R) Ethernet Server Adapter X520	OS bundled	XenServer standard	-	No	Supported (V20L14 or later)	Supported (V10L25 or later)	
	Direct / via switch	Intel® Ethernet I340 Server Adapter	OS bundled	XenServer standard	-	No	Supported (V20L14 or later)	Supported (V10L25 or later)	
	Direct / via switch	Intel(R) Ethernet X540	OS bundled	XenServer standard	-	No	Supported (V20L14 or later)	Supported (V10L50 or later)	

Notes	- For each Operating System, Path Failover software, Cluster System software, Volume manager software, please apply necessary patches which are suggested by the product suppliers. - PCI-bus on Bus column indicates PCI or PCI-X. - For internal FC-switch of other vendor's Blade server, please refer to "FC switch" by checking OEM vendor's switch model. - If multipath configuration is supported, then single path configuration is also supported. But multipath configuration may be mandatory because of cluster requirement.
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Server	OS		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use		
					model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA			
PRIMERGY	Oracle VM (x86_64)	Oracle VM Server 3.3.x (x86_64)	Direct/ via switch Note 1	PCI-Express	PY-FC221/PY-FC221L PYBFC221/PYBFC221L PY-FC222/PY-FC222L PYBFC222/PYBFC222L S26361-F4994-L501 S26361-F4994-E1/ S26361-F4994-L502/ S26361-F4994-E2	-	-	OS bundled	Refer to "Switch pages" for supported FC switches.	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)	- When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower. - ECO mode of ETERNUS can not be used.		
					ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-		Supported (V10L46 or later)	Supported (V10L50 or later)							
					Direct/ via switch Note 1	PCI-Express	PY-FCD12/ PYBFCD121/PYBFCD122 S26361-F4994-E402/ S26361-F4994-L402	-		-	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)	
			ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA			No	-		Supported (V10L46 or later)	Supported (V10L50 or later)							
			Direct/ via switch	PCI-Express			PY-FC311/PY-FC312/ S26361-F5313-L501/E1/E201 S26361-F5313-L502/E2/E202	-		-	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)	
					ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-		Supported (V10L46 or later)	Supported (V10L50 or later)							
					PCI-Express	PY-FC201/PY-FC201L PYBFC201/PYBFC201L PY-FC202/PY-FC202L PYBFC202/PYBFC202L S26361-F3961-L1/E1/L2/E2	-	-		OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)	- ECO mode of ETERNUS can not be used.	
				ETERNUS Oracle VM Storage Connect Plug-in		Oracle VM HA	No	-		Supported (V10L46 or later)	Supported (V10L50 or later)							
				PCI-Express		PY-FC211/PY-FC211L PYBFC211/PYBFC211L PY-FC212/PY-FC212L PYBFC212/PYBFC212L S26361-F3631-L1/E1/L2/E2	-	-		OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)		
					ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-		Supported (V10L46 or later)	Supported (V10L50 or later)							
			Oracle VM Server 3.2.7 (x86_64)		Direct/ via switch Note 1	PCI-Express	PY-FC221/PY-FC221L PYBFC221/PYBFC221L PY-FC222/PY-FC222L PYBFC222/PYBFC222L S26361-F4994-L501/ S26361-F4994-E1/ S26361-F4994-L502/ S26361-F4994-E2	-		-	OS bundled	Refer to "Switch pages" for supported FC switches.	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)
				ETERNUS Oracle VM Storage Connect Plug-in			Oracle VM HA	No		-	Supported (V10L46 or later)		Supported (V10L50 or later)					
		Direct/ via switch Note 1		PCI-Express			PY-FCD12/ PYBFCD121/PYBFCD122 S26361-F4994-E402/ S26361-F4994-L402	-	-	OS bundled	DeviceMapper		Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)	
					ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)								
					Direct/ via switch	PCI-Express	PY-FC201/PY-FC201L PYBFC201/PYBFC201L PY-FC202/PY-FC202L PYBFC202/PYBFC202L S26361-F3961-L1/E1/L2/E2	-	-	OS bundled	DeviceMapper		Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)	- ECO mode of ETERNUS can not be used.
		ETERNUS Oracle VM Storage Connect Plug-in		Oracle VM HA			No	-	Supported (V10L46 or later)	Supported (V10L50 or later)								
		PCI-Express		PY-FC211/PY-FC211L PYBFC211/PYBFC211L PY-FC212/PY-FC212L PYBFC212/PYBFC212L S26361-F3631-L1/E1/L2/E2			-	-	OS bundled	DeviceMapper	Oracle VM HA		No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)		
				ETERNUS Oracle VM Storage Connect Plug-in		Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)								
				Direct/ via switch Note 1		PCI-Express	PY-FC221/PY-FC221L PYBFC221/PYBFC221L PY-FC222/PY-FC222L PYBFC222/PYBFC222L S26361-F4994-L501/ S26361-F4994-E1/ S26361-F4994-L502/ S26361-F4994-E2	-	-	OS bundled	Refer to "Switch pages" for supported FC switches.		DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)
		ETERNUS Oracle VM Storage Connect Plug-in					Oracle VM HA	No	-	Supported (V10L46 or later)			Supported (V10L50 or later)					
		Direct/ via switch Note 1			PCI-Express		PY-FCD12/ PYBFCD121/PYBFCD122 S26361-F4994-E402/ S26361-F4994-L402	-	-	OS bundled			DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L46 or later)			Supported (V10L50 or later)					
			Direct/ via switch			PCI-Express	PY-FC201/PY-FC201L PYBFC201/PYBFC201L PY-FC202/PY-FC202L PYBFC202/PYBFC202L S26361-F3961-L1/E1/L2/E2	-	-	OS bundle		DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)	- ECO mode of ETERNUS can not be used.
		ETERNUS Oracle VM Storage Connect Plug-in			Oracle VM HA		No	-	Supported (V10L46 or later)	Supported (V10L50 or later)								
PCI-Express	PY-FC211/PY-FC211L PYBFC211/PYBFC211L PY-FC212/PY-FC212L PYBFC212/PYBFC212L S26361-F3631-L1/E1/L2/E2	-		-	OS bundled		DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)						
	ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA		No	-	Supported (V10L46 or later)	Supported (V10L50 or later)											
	Oracle VM Server 3.2.2 (x86_64)	Direct/ via switch Note 1		PCI-Express	PY-FC221/PY-FC221L PYBFC221/PYBFC221L PY-FC222/PY-FC222L PYBFC222/PYBFC222L S26361-F4994-L501/ S26361-F4994-E1/ S26361-F4994-L502/ S26361-F4994-E2	-	-	OS bundled	Refer to "Switch pages" for supported FC switches.	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)	- When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower. - ECO mode of ETERNUS can not be used.		
ETERNUS Oracle VM Storage Connect Plug-in					Oracle VM HA	No	-	Supported (V10L46 or later)		Supported (V10L50 or later)								
Direct/ via switch Note 1			PCI-Express		PY-FCD12/ PYBFCD121/PYBFCD122 S26361-F4994-E402/ S26361-F4994-L402	-	-	OS bundled		DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)			
		ETERNUS Oracle VM Storage Connect Plug-in		Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)										
		Direct/ via switch		PCI-Express	PY-FC201/PY-FC201L PYBFC201/PYBFC201L PY-FC202/PY-FC202L PYBFC202/PYBFC202L S26361-F3961-L1/E1/L2/E2	-	-	OS bundle		DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)	- ECO mode of ETERNUS can not be used.		
ETERNUS Oracle VM Storage Connect Plug-in			Oracle VM HA		No	-	Supported (V10L46 or later)	Supported (V10L50 or later)										
PCI-Express	PY-FC211/PY-FC211L PYBFC211/PYBFC211L PY-FC212/PY-FC212L PYBFC212/PYBFC212L S26361-F3631-L1/E1/L2/E2		-		-	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)						
	ETERNUS Oracle VM Storage Connect Plug-in		Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)											
	Oracle VM Server 3.2.1 (x86_64)		Direct/ via switch Note 1	PCI-Express	PY-FC221/PY-FC221L PYBFC221/PYBFC221L PY-FC222/PY-FC222L PYBFC222/PYBFC222L S26361-F4994-L501/ S26361-F4994-E1/ S26361-F4994-L502/ S26361-F4994-E2	-	-	OS bundled	Refer to "Switch pages" for supported FC switches.	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)	- When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower. - ECO mode of ETERNUS can not be used.		
ETERNUS Oracle VM Storage Connect Plug-in					Oracle VM HA	No	-	Supported (V10L46 or later)		Supported (V10L50 or later)								
Direct/ via switch Note 1		PCI-Express			PY-FCD12/ PYBFCD121/PYBFCD122 S26361-F4994-E402/ S26361-F4994-L402	-	-	OS bundled		DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)			
			ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)										
			Direct/ via switch	PCI-Express	PY-FC201/PY-FC201L PYBFC201/PYBFC201L PY-FC202/PY-FC202L PYBFC202/PYBFC202L S26361-F3961-L1/E1/L2/E2	-	-	OS bundled		DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)	- ECO mode of ETERNUS can not be used.		
ETERNUS Oracle VM Storage Connect Plug-in		Oracle VM HA			No	-	Supported (V10L46 or later)	Supported (V10L50 or later)										
PCI-Express	PY-FC211/PY-FC211L PYBFC211/PYBFC211L PY-FC212/PY-FC212L PYBFC212/PYBFC212L S26361-F3631-L1/E1/L2/E2	-			-	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)						
	ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA		No	-	Supported (V10L46 or later)	Supported (V10L50 or later)											

Note 1: When connecting with ETERNUS 16Gbps FC port without FC switch, please set link speed at 8Gbps or lower.

Server		OS		Connected Type	Bus	HBA				Switch	Path Failover	Cluster system	SAN boot	Model			Instruction for use
						model name	BIOS version/ EFI driver version	Firmware version	Driver version					DX60 S2	DX80 S2 DX90 S2	DX80 S2 DX90 S2 16Gbps CA	
PRIMERGY	Oracle VM (x86_64)	Oracle VM Server 3.1.1 (x86_64)	Direct/ via switch	PCI-bus/ PCI-Express	PY-FC201/PY-FC201L PY8FC201/PY8FC201L PY-FC202/PY-FC202L PY8FC202/PY8FC202L S26361-F3961-L1/E1/L2/E2	-	-	OS bundled	Refer to "Switch" pages" for supported FC switches.	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	Supported (V10L50 or later)	-ECO mode of ETERNUS can not be used.	
				PCI-bus/ PCI-Express	PY-FC211/PY-FC211L PY8FC211/PY8FC211L PY-FC212/PY-FC212L PY8FC212/PY8FC212L S26361-F3631-L1/E1/L2/E2	-	-	OS bundled		DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)		
			Direct/ via switch	PCI-bus/ PCI-Express	LPe16000B/LPe16002B /LPe16000L/LPe16002	-	-	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)		
				PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	-	-	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)		
Other Companies' Servers	Oracle VM (x86_64)	Oracle VM Server 3.3.x (x86_64)	Direct/ via switch Note 2	PCI-bus/ PCI-Express	QL E2672 /QL E2670	-	-	OS bundled	Refer to "Switch" pages" for supported FC switches.	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)	-ECO mode of ETERNUS can not be used.	
				PCI-bus/ PCI-Express	LPe12000L/LPe12002L/LPe1250	-	-	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)		
			Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	-	-	OS bundled		DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)		
				PCI-bus/ PCI-Express	QL E2560/QL E2562	-	-	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)		
			Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	-	-	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)		
				PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	-	-	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)		
			Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	-	-	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)		
				PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	-	-	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)		
			Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	-	-	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)		
				PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	-	-	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)		
			Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	-	-	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)		
				PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	-	-	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)		
		Oracle VM Server 3.2.2 (x86_64)	Direct/ via switch Note 2	PCI-bus/ PCI-Express	LPe16000B/LPe16002B /LPe16000L/LPe16002	-	1.1.43.3 or later	OS bundled	Refer to "Switch" pages" for supported FC switches.	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)	-ECO mode of ETERNUS can not be used.	
				PCI-bus/ PCI-Express	LPe12000L/LPe12002L/LPe1250	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)		
			Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)		
				PCI-bus/ PCI-Express	QL E2560/QL E2562	-	-	OS bundled		DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)		
			Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)		
				PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)		
			Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)		
				PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)		
			Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)		
				PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)		
			Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)		
				PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)		
Oracle VM Server 3.2.1 (x86_64)	Direct/ via switch Note 2	PCI-bus/ PCI-Express	LPe16000B/LPe16002B /LPe16000L/LPe16002	-	1.1.43.3 or later	OS bundled	Refer to "Switch" pages" for supported FC switches.	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)	-ECO mode of ETERNUS can not be used.			
		PCI-bus/ PCI-Express	LPe12000L/LPe12002L/LPe1250	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)				
	Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
		PCI-bus/ PCI-Express	QL E2560/QL E2562	-	-	OS bundled		DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)				
	Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
		PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
	Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
		PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
	Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
		PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
	Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
		PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
Oracle VM Server 3.1.1 (x86_64)	Direct/ via switch Note 2	PCI-bus/ PCI-Express	LPe16000B/LPe16002B /LPe16000L/LPe16002	-	1.1.43.3 or later	OS bundled	Refer to "Switch" pages" for supported FC switches.	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)	-ECO mode of ETERNUS can not be used.			
		PCI-bus/ PCI-Express	LPe12000L/LPe12002L/LPe1250	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)				
	Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
		PCI-bus/ PCI-Express	QL E2560/QL E2562	-	-	OS bundled		DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)				
	Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
		PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
	Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
		PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
	Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
		PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
	Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
		PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
Oracle VM Server 3.0.3 (x86_64)	Direct/ via switch Note 2	PCI-bus/ PCI-Express	LPe16000B/LPe16002B /LPe16000L/LPe16002	-	1.1.43.3 or later	OS bundled	Refer to "Switch" pages" for supported FC switches.	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)	-ECO mode of ETERNUS can not be used.			
		PCI-bus/ PCI-Express	LPe12000L/LPe12002L/LPe1250	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)				
	Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
		PCI-bus/ PCI-Express	QL E2560/QL E2562	-	-	OS bundled		DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)				
	Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
		PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
	Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
		PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
	Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
		PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
	Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
		PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
Oracle VM Server 3.0.2 (x86_64)	Direct/ via switch Note 2	PCI-bus/ PCI-Express	LPe16000B/LPe16002B /LPe16000L/LPe16002	-	1.1.43.3 or later	OS bundled	Refer to "Switch" pages" for supported FC switches.	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)	-ECO mode of ETERNUS can not be used.			
		PCI-bus/ PCI-Express	LPe12000L/LPe12002L/LPe1250	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)				
	Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
		PCI-bus/ PCI-Express	QL E2560/QL E2562	-	-	OS bundled		DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L46 or later)	Supported (V10L50 or later)				
	Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
		PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
	Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
		PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
	Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
		PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
	Direct/ via switch	PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				
		PCI-bus/ PCI-Express	HP: A1762A/A1763A IBM: 42D0485/42D0494	5.12a2 or later	2.00a4 or later	OS bundled		DeviceMapper	Oracle VM HA	No	-	Supported (V10L46 or later)	Supported (V10L50 or later)				

Notes	- For each Operating System, Path Failover software, Cluster System software, Volume manager software, please apply necessary patches which are suggested by the product suppliers. - PCI-bus on Bus column indicates PCI or PCI-X. - When enabling Jumbo Frame setting, please disable "Flow Control" of LAN switch. - If multipath configuration is supported, then single path configuration is also supported. But multipath configuration may be mandatory because of cluster requirement. - When connecting ETERNUS disk array and server on iSCSI via LAN switch, it is recommended that the speed of network adapter on server and ETERNUS iSCSI host adapter should be matched. - Recommended example : 10Gbps LAN adapter - LAN switch - 10Gbps iSCSI host interface of ETERNUS
	If the speed of network adapter on server and ETERNUS iSCSI host adapter are not matched, then transmission error may occur due to traffic congestion. - Not recommended example : 10Gbps LAN adapter - LAN switch - 1Gbps host interface of ETERNUS.

Server	OS		Connected Type	HBA	Driver version	Path Failover	Cluster system	iSCSI boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	Oracle VM (x86_64)	Oracle VM Server 3.3.x (x86_64)	Direct / via switch	NIC and CNA for PRIMERGY *1	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	- ECO mode of ETERNUS can not be used.
					ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)		
		Oracle VM Server 3.2.7 (x86_64)	Direct / via switch	PY-LA234 S26361-F3611-L501	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	- ECO mode of ETERNUS can not be used.
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
				PY-LA244/PY-LA232 S26361-F3739-L501 S26361-F3740-L501	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
				PY-LA101/PY-LA101L PYBLA101/PYBLA101L S26361-F3516-L1/L201 S26361-F3516-E1/E201	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
				PY-LA111 S26361-F3242-L1	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
				PY-LA222 S26361-F3610-L502	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
				PY-LA242/PYBLA242/ PYBLA242L S26361-F3629-L502/E2/E202	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
				PY-LA252/PYBLA252 /PYBLA252L S26361-F3752-L502/E2/E202	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
				On Board LAN	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	

*1 Please contact server supplier about available NIC and CNA.

Server	OS		Connected Type	HBA	Driver version	Path Failover	Cluster system	iSCSI boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
PRIMERGY	Oracle VM (x86_64)	Oracle VM Server 3.2.2 (x86_64)	Direct / via switch	PY-LA234 S26361-F3611-L501	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	- ECO mode of ETERNUS can not be used.
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
				PY-LA244/PY-LA232 S26361-F3739-L501 S26361-F3740-L501	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
				PY-LA101/PY-LA101L PYBLA101/PYBLA101L S26361-F3516-L1/L201 S26361-F3516-E1/E201	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
				PY-LA111 S26361-F3242-L1	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
				PY-LA222 S26361-F3610-L502	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
				PY-LA242/PYBLA242/ PYBLA242L S26361-F3629-L502/E2/E202	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
				PY-LA252/PYBLA252 /PYBLA252L S26361-F3752-L502/E2/E202	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
				On Board LAN	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
		Oracle VM Server 3.1.1 (x86_64)	Direct / via switch	PY-LA234 S26361-F3611-L501	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	- ECO mode of ETERNUS can not be used.
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
				PY-LA244/PY-LA232 S26361-F3739-L501 S26361-F3740-L501	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
				PY-LA101/PY-LA101L PYBLA101/PYBLA101L S26361-F3516-L1/L201 S26361-F3516-E1/E201	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
				PY-LA111 S26361-F3242-L1	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
				PY-LA222 S26361-F3610-L502	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
				PY-LA242/PYBLA242/ PYBLA242L S26361-F3629-L502/E2/E202	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
				PY-LA252/PYBLA252 /PYBLA252L S26361-F3752-L502/E2/E202	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
				On Board LAN	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	

Server	OS		Connected Type	HBA	Driver version	Path Failover	Cluster system	iSCSI boot	Model		Instruction for use
									DX60 S2	DX80 S2 DX90 S2	
Other Companies' Servers	Oracle VM (x86_64)	Oracle VM Server 3.3.x (x86_64)	Direct / via switch	Intel NIC / CNA	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	- ECO mode of ETERNUS can not be used.
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
		Oracle VM Server 3.2.7 (x86_64)	Direct / via switch	Intel ® PRO/1000 PT /Intel ® PRO/1000 PF	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	- ECO mode of ETERNUS can not be used.
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
				Intel ® Ethernet Server Adapter X520-DA2	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
				Intel ® Gigabit CTDesktop Adapter	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
		Oracle VM Server 3.2.2 (x86_64)	Direct / via switch	Intel ® PRO/1000 PT /Intel ® PRO/1000 PF	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	- ECO mode of ETERNUS can not be used.
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
				Intel ® Ethernet Server Adapter X520-DA2	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
				Intel ® Gigabit CTDesktop Adapter	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
		Oracle VM Server 3.1.1 (x86_64)	Direct / via switch	Intel ® PRO/1000 PT /Intel ® PRO/1000 PF	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	- ECO mode of ETERNUS can not be used.
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
				Intel ® Ethernet Server Adapter X520-DA2	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
				Intel ® Gigabit CTDesktop Adapter	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L45 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L45 or later)	
		Oracle VM Server 3.0.3 (x86_64)	Direct / via switch	Intel ® PRO/1000 PT /Intel ® PRO/1000 PF	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L25 or later)	- ECO mode of ETERNUS can not be used.
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L25 or later)	
				Intel ® Ethernet Server Adapter X520-DA2	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L25 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L25 or later)	
				Intel ® Gigabit CTDesktop Adapter	OS bundled	DeviceMapper	Oracle VM HA	No	Planned 2	Supported (V10L25 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L25 or later)	
		Oracle VM Server 3.0.2 (x86_64)	Direct / via switch	Intel ® PRO/1000 PT /Intel ® PRO/1000 PF	OS bundled	DeviceMapper	Oracle VM HA	No	Supported (V20L12 or later)	Supported (V10L22 or later)	- ECO mode of ETERNUS can not be used.
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L22 or later)	
				Intel ® Ethernet Server Adapter X520-DA2	OS bundled	DeviceMapper	Oracle VM HA	No	Supported (V20L12 or later)	Supported (V10L22 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L22 or later)	
				Intel ® Gigabit CTDesktop Adapter	OS bundled	DeviceMapper	Oracle VM HA	No	Supported (V20L12 or later)	Supported (V10L22 or later)	
						ETERNUS Oracle VM Storage Connect Plug-in	Oracle VM HA	No	-	Supported (V10L22 or later)	

Egenera FC connection [Edition 147 : January 24, 2018]							
Notes		For detail, please ask each server vendor.					

Egenera	HBA	Connected Type	Switch	SAN boot	Model		Instruction for use
					DX60 S2	DX80 S2 DX90 S2	
BladeFrame EX/ES PAN Version 5.2	embedded	Direct/via switch	Refer to "Switch pages" for supported FC switches.	Yes	Supported (V20L10 or later)	Supported (V10L11 or later)	Please apply driver patch for Egenera (EgenWin-2003.1.1.5 or later) when using Windows 2003 server as a guest OS.
PAN For Fujitsu PAN Version 6.0.9	embedded	Direct/via switch	Refer to "Switch pages" for supported FC switches.	No	Supported (V20L13 or later)	Supported (V10L25 or later)	Please apply patch for Egenera (WIN2008.2_BXPS1.0.PM6.0_3-2 or later) when using Windows 2008R2 server as a guest OS. Please change host response of ETERNUS. Parameter Inquiry Standard Data Version:Version 4 (from Version 5)

Notes

Symantec FileStore	Server	Connected Type	Bus	HBA				Switch	Model		Instruction for use
				model name	BIOS version/ EFI driver version	Firmware version	Driver version		DX60 S2	DX80 S2 DX90 S2	
5.6	RX300S5	Direct/via switch	PCI-Express	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	2.02a2	2.82a3	OS bundled (8.2.0.48.2p)	Refer to "Switch pages" for supported FC switches.	Planned 2	Supported (V10L11 or later)	
		Direct/via switch	PCI-Express	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	2.02a2	1.11a5	OS bundled (8.2.0.48.2p)		Planned 2	Supported (V10L11 or later)	
	RX300S6	Direct/via switch	PCI-Express	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	2.02a2	2.82a3	OS bundled (8.2.0.48.2p)	Refer to "Switch pages" for supported FC switches.	Supported (V20L10 or later)	Supported (V10L11 or later)	
		Direct/via switch	PCI-Express	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	2.02a2	1.11a5	OS bundled (8.2.0.48.2p)		Supported (V20L10 or later)	Supported (V10L11 or later)	The maximum number of LUNs is up to 512.
	RX300S7	Direct/via switch	PCI-Express	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	1.70a3 2.01a2 2.02a2	2.50a6 2.72a2 2.82a3	OS bundled	Refer to "Switch pages" for supported FC switches.	Supported (V20L10 or later)	Supported (V10L11 or later)	
		Direct/via switch	PCI-Express	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	2.02a2	1.10a5 1.11a5	OS bundled		Supported (V20L10 or later)	Supported (V10L11 or later)	The maximum number of LUNs is up to 512.
5.5sp1 Note 1	RX300S5	Direct/via switch	PCI-Express	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	2.02a2	2.82a3	8.2.0.22	Refer to "Switch pages" for supported FC switches.	Supported (V20L10 or later)	Planned 2	The maximum number of LUNs is up to 512.
		Direct/via switch	PCI-Express	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L					Planned 2	Planned 2	
	RX300S6	Direct/via switch	PCI-Express	S26361-F3306-L1/L201/ PG-FC202/PG-FC202L	1.70a3/2.01a2/ 2.02a2	2.50a0/2.72a2/ 2.82a2	8.2.0.22	Refer to "Switch pages" for supported FC switches.	Supported (V20L10 or later)	Supported (V10L11 or later)	The maximum number of LUNs is up to 512.
		Direct/via switch	PCI-Express	S26361-F3961-L1/L201/ S26361-F3961-L2/L202/ PG-FC203/PG-FC203L/ PG-FC204/PG-FC204L/ PY-FC202/PY-FC202L/ PY-FC201/PY-FC201L	2.02a2	1.10a5/1.11a5	8.2.0.22		Supported (V20L10 or later)	Supported (V10L11 or later)	The maximum number of LUNs is up to 512.

Note 1 : When configuring cluster, the number of paths for one storage has an upper limit. Please use the formula below.

The number of LUNs shared among clusters x the number of path to these LUNs of one node x the number of nodes < 1024

If multiple clusters are configured with one storage, the left side of above formula is sum of each cluster's above value.

Notes

FalconStor NSS	PRIMERGY	Connected Type	Bus	HBA				Switch	Path Failover	Model		Instruction for use
				model name	BIOS version/ EFI driver version	Firmware version	Driver version			DX60 S2	DX80 S2 DX90 S2	
6.15	RX300S6	via switch	PCI-Express	S26361-F3631-L2 PG-FC206L	2.10	-	NSS Native (OS Native)	Refer to "Switch pages" for supported FC switches.	NSS Native	Supported (V20L10 or later)	Supported (V10L11 or later)	
	Other Companies' server	via switch	PCI-Express	QLE2562	2.10	-	NSS Native (OS Native)		NSS Native	Supported (V20L10 or later)	Supported (V10L11 or later)	
7.0	PRIMERGY RX300S6	via switch	PCI-Express	S26361-F3631-L2 PG-FC206/PG-FC206L/ PY-FC212/PY-FC212L	2.10	-	NSS Native (OS Native)	Refer to "Switch pages" for supported FC switches.	NSS Native	Supported (V20L10 or later)	Supported (V10L11 or later)	
	PRIMERGY RX300S7	via switch	PCI-Express	PY-FC212L	2.16	-	NSS Native (OS Native)		NSS Native	Planned 2	Supported (V10L25 or later)	
	Other Companies' server	via switch	PCI-Express	QLE2562	2.10	-	NSS Native (OS Native)		NSS Native	Supported (V20L10 or later)	Supported (V10L11 or later)	

Notes

FalconStor NSS	PRIMERGY	Connected Type	NIC or HBA	HBA's Driver	Software Initiator	Path Failover	Model		Instruction for use
							DX60 S2	DX80 S2 DX90 S2	
7.0	PRIMERGY RX300 S7	LAN switch	1000Base-T S26361-F3610-E202 S26361-F3611-E201 10GBase S26361-F3752-E202 S26361-F3629-E202	NSS Native (OS Native)	NSS Native	NSS Native	Supported (V20L10 or later)	Supported (V10L25 or later)	
	Other Companys' server	LAN switch	1000Base-T 10GBase	NSS Native (OS Native)	NSS Native	NSS Native	Supported (V20L10 or later)	Supported (V10L25 or later)	Use NIC or HBA certified by FalconStor.

IBM SVC FC connection [Edition 147 : January 24, 2018]

Notes

- Please ask IBM SVC product supplier about IBM SVC shipment schedule and necessary patch.
- Please ask IBM SVC product supplier about condition of OS, Cluster software and others which IBM SVC supports.
- Please ask IBM SVC product supplier about any issue about IBM SVC.

IBM SVC	HBA	Connected Type	Path Failover	Model		Instruction for use
				DX60 S2	DX80 S2 DX90 S2	
6.2.0.5	SVC specific	Switch	SVC Native	Supported (V20L10 or later)	Supported (V10L11 or later)	
6.4.0.2	SVC specific	Switch	SVC Native	Supported (V20L10 or later)	Supported (V10L11 or later)	
6.4.0.3	SVC specific	Switch	SVC Native	Supported (V20L10 or later)	Supported (V10L11 or later)	
7.1.0.3 or later	SVC specific	Switch	SVC Native	Supported (V20L10 or later)	Supported (V10L11 or later)	

IBM SVC iSCSI connection [Edition 147 : January 24, 2018]

Notes

- Please ask IBM SVC product supplier about IBM SVC shipment schedule and necessary patch.
- Please ask IBM SVC product supplier about condition of OS, Cluster software and others which IBM SVC supports.
- Please ask IBM SVC product supplier about any issue about IBM SVC.

IBM SVC	HBA	Connected type	Path Failover	Model		Instruction for use
				DX60 S2	DX80 S2 DX90 S2	
6.2.0.5	SVC specific	Switch	SVC Native	Supported (V20L10 or later)	Supported (V10L11 or later)	
6.4.0.2	SVC specific	Switch	SVC Native	Supported (V20L10 or later)	Supported (V10L11 or later)	
6.4.0.3	SVC specific	Switch	SVC Native	Supported (V20L10 or later)	Supported (V10L11 or later)	
7.1.0.3 or later	SVC specific	Switch	SVC Native	Supported (V20L10 or later)	Supported (V10L11 or later)	

UCS connection [Edition 114: July 23, 2014]

Notes

- Please ask Cisco UCS product supplier about Cisco UCS shipment schedule and necessary patches.
- Please ask Cisco UCS product supplier about condition of OS, Cluster software and others which Cisco UCS supports.
- Please refer to Cisco UCS HCL web below for storage connection condition of Cisco UCS.
<http://www.cisco.com/c/en/us/td/docs/switches/datacenter/>
- Please ask Cisco UCS product supplier about any issue with Cisco UCS.

	Model		Instruction for use
	DX60 S2	DX80 S2 DX90 S2	
Cisco UCS	Supported (V20L16 or later)	Supported (V10L56 or later)	

Switch connection [Edition 148 : February 10, 2021]

Notes - This chart shows connectivity between ETERNUS host interface and each switch. For connectivity between host bus adapter and switch, please ask it to server and/or switch vendor.
- For stable operation and connectivity, please apply the latest firmware of each switch.

Model name		DX60 S2 FC port (4Gbps)	DX80 S2/DX90 S2 FC port (8Gbps)	DX80 S2/DX90 S2 FC port (16Gbps)	DX80 S2/DX90 S2 FCoE port	DX60 S2 SAS port	DX80 S2/DX90 S2 SAS port
Fujitsu SN200 Series Brocade Series	Brocade G720/Brocade X7 Directors	-	Supported	Supported	-	-	-
	Brocade G630	Supported	Supported	Supported	-	-	-
	Brocade G620/Brocade X6 Directors	Supported	Supported	Supported	-	-	-
	Brocade G610/Brocade 7810	Supported	Supported	Supported	-	-	-
	Brocade 6505/6510/6520/7840 DCX8510-4 / DCX8510-8	Supported	Supported	Supported	-	-	-
	Brocade 7800/DCX/DCX-4S	Supported	Supported	Supported	-	-	-
	Brocade VDX6710/6720/6730	Supported (VDX6730 only)	Supported (VDX6730 only)	Supported (VDX6730 only)	Supported	-	-
	SN200 Model 140, 600, 630, 660	Supported	Supported	Supported	-	-	-
	Brocade 8000 / CEE/FCoE blade for DCX/DCX-4S	Supported	Supported	Supported	Supported	-	-
	SN200 Model 320, 340, 540	Supported	Supported	Supported	-	-	-
	SN200 Model 120, 430, 480, 485, 490	Supported	Supported	Supported	-	-	-
Fujitsu PRIMERGY switch blade	PY-FCB104/105/106 S26361-K1527-V14/V26/V27	Supported	Supported	Supported	-	-	-
	PY-FCB101/102/103 PG-FCS104 S26361-K1305-V314/V326/V327	Supported	Supported	Supported	-	-	-
	PY-CNB101 S26361-K1429-V300	Supported	Supported	Supported	Supported	-	-
	PY-SAB101/S26361-K1391-V300 PG-SAS101	-	-	-	-	-	Supported
	PG-FCS103	Supported	Supported	Supported	-	-	-
	PG-FCS102	Supported	Supported	Supported	-	-	-
Brocade switches	Brocade G720/Brocade X7 Directors	-	Supported	Supported	-	-	-
	Brocade G630	Supported	Supported	Supported	-	-	-
	Brocade G620/Brocade X6 Directors	Supported	Supported	Supported	-	-	-
	Brocade G610/Brocade 7810	Supported	Supported	Supported	-	-	-
	Brocade 6505/6510/6520/7840 DCX8510-4 / DCX8510-8	Supported	Supported	Supported	-	-	-
	Brocade VDX6710/6720/6730	Supported (VDX6730 only)	Supported (VDX6730 only)	Supported (VDX6730 only)	Supported	-	-
	Brocade 300/5100/5300/48000/ DCX/DCX-4S	Supported	Supported	Supported	-	-	-
	Brocade200E	Supported	Supported	Supported	-	-	-
	Brocade 4100/4900/5000/48000 SilkWorm 3900/3250/3850/ 12000/24000	Supported	Supported	Supported	-	-	-
	Brocade 7800 / FX8-24 blade for DCX/DCX-4S	Supported	Supported	Supported	-	-	-
	Brocade 8000 / FCoE10-24 blade for DCX/DCX-4S	Supported	Supported	Supported	Supported	-	-

Cisco MDS series Nexus series	MDS 9710/9513/9509/9506 MDS 9222i/9148 (NX-OS 6.x / up to 8Gbps)	Supported	Supported	Supported	-	-	-
	MDS 9134/9124 MDS 9513/9509/9506 (NX-OS 5.x / up to 4Gbps)	Supported	Supported	Supported	-	-	-
	Nexus5500/5600 Nexus5010/5020	Supported	Supported	Supported	Supported	-	-
QLogic SANBox series	SANBOX 5800 Series	Supported	Supported	Supported	-	-	-
	SANBOX 5600 Series	Supported	Supported	Supported	-	-	-
LSI SAS Switch	LSI SAS6161/6160	-	-	-	-	-	Supported