### FUJITSU Storage ETERNUS AF series, ETERNUS DX S5/S4/S3 series, ETERNUS DX200F Server Support Matrix

Legend Supported : This connection is supported.

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: Please use the latest Firmware of ETERNUS AF series, ETERNUS DX S5/S4/S3 series and DX200F.

#### **Contents**

Solaris (FC connection) Edition 170: 2022/1/14 VM (FC connection) Edition 183: 2023/12/22

Solaris (iSCSI connection) Edition 170: 2022/1/14 VM (iSCSI connection) Edition 183: 2023/12/22

69: 2021/11/26 VM (SAS connection) Edition 183: 2023/12/22

VMware VVOL Edition 183: 2023/12/22

SVC Edition 151: 2019/12/24

UCS Edition 60: 2016/4/21

StorNext Edition 176: 2022/10/14

Switch connection Edition 173: 2022/7/19

StorageCluster-Backup Edition 90: 2017/7/31

NAS connection Edition 181: 2023/6/16

NAS Backup Edition 147: 2019/11/12

Key management server linkage Edition 161:2020/12/4

Other vendor certified products Edition 167: 2021/7/16

FAQ Edition 87: 2017/6/12

Solaris (FC connection) Edition 170: 2022/1/14
Solaris (iSCSI connection) Edition 170: 2022/1/14
Solaris (SAS connection) Edition 169: 2021/11/26
Solaris (FCoE connection) Edition 131: 2019/3/28
HP-UX (FC connection) Edition 146: 2019/11/5

HP-UX (iSCSI connection) Edition 146: 2019/11/5

AIX (FC connection) Edition 173: 2022/7/19

Windows (FC connection) Edition 183: 2023/12/22

Windows (iSCSI connection) Edition 183: 2023/12/22

Windows (SAS connection) Edition 183: 2023/12/22

RHEL (FC connection) Edition 183: 2023/12/22

RHEL (iSCSI connection) Edition 183: 2023/12/22

RHEL (SAS connection) Edition 183: 2023/12/22

Oracle Linux (FC connection) Edition 183: 2023/12/22

Oracle Linux (iSCSI connection) Edition 183: 2023/12/22

SLES (FC connection) Edition 183: 2023/12/22

SLES (iSCSI connection) Edition 183: 2023/12/22

SLES (SAS connection) Edition 183: 2023/12/22

Linux (FCoE connection) Edition 155: 2020/4/9

# Solaris (FC connection) Edition 170: 2022/1/14

Notes - Please contact the server supplier for the server support status of OS, multipath software, HBA and clusterware listed here.

- Please contact the product supplier for operating condition of multipath software and HBA listed here.
- Please use the latest version of HBA firmware and driver unless note is stated.
- Please contact the server supplier for connection availability of HBA and FC switch.
- Please contact the clusterware supplier for combination of Server, OS version, multipath software, HBA, and clusterware version.
- Functions supported by clusterware depends on each clusterware supplier. Please contact the clusterware supplier for the extended support functions such as geo cluster..
- UNMAP function is not supported on Deduplication/Compression volume.
- Trademark symbols have been omitted from this document.
- In this document, the following abbreviations are used;

EMPD (ETERNUS Multipath Driver), OSC (Oracle Solaris Cluster), PCL (PRIMECLUSTER), VCS (Veritas Cluster Server)

- Storage Cluster function is not supported on DX60 S5/S4/S3.
- FC 8Gbps (maximum transfer rate) of "DX S5 series" is supported only on DX60 S5.

					Storaç	ge					Cluster		
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	OSC *15 4.1 to 4.4	PCL 4.3/4.5/4.6 *10	Oracle RAC /SEHA	VCS (including Oracle RAC) *16 6.0/6.1/6.2 Veritas InfoScale Availability 7.0/7.1/7.3.1 *14	
		EMPD3.1.0 or later	via switch	Supported (11.3/11.4)	Supported (11.3/11.4)	Supported (11.3/11.4)	Supported (11.3/11.4)	Yes *1	-	Supported	Supported 18c/19c	-	
	SP1X7FAC2F *8	EMPD3.1.1 or later + Storage Cluster	via switch *13	Supported (11.3)	Supported (11.3)	Supported (11.3)	Supported (11.3)	*7	-	Supported	-	-	
	(7115462/7115460)	MPxIO *11	Direct/via switch	Supported (11.3/11.4)	Supported (11.3/11.4)	Supported (11.3/11.4)	Supported (11.3/11.4)	Yes *1	Supported	Supported	Supported (12cR1/12cR2/18c/19c)	-	
		MPxIO + Storage Cluster *11	via switch *13	Planned 2	Planned 2	Planned 2	Planned 2	*7	-	Planned 2	-	-	
		EMPD3.1.0 or later	Direct/via switch	Supported (11.3/11.4)	Supported (11.3/11.4)	Supported (11.3/11.4)	Supported (11.3/11.4)	Yes *1	-	Supported	Supported 18c/19c	-	
	CD0V7EAA4E *40	EMPD3.1.1 or later + Storage Cluster	via switch *13	Planned 2	Planned 2	Planned 2	Planned 2	*7	-	Planned 2	-	-	
	SP0X7FAA4F *18	MPxIO *11	Direct/via switch	Supported (11.3/11.4)	Supported (11.3/11.4)	Supported (11.3/11.4)	Supported (11.3/11.4)	Yes *1	Supported	Supported	Supported (12cR1/12cR2/18c/19c)	-	
		MPxIO + Storage Cluster *11	via switch *13	Planned 2	Planned 2	Planned 2	Planned 2	*7	-	Planned 2	-	-	
	00.0754405/00.0754405	EMPD3.1.0 or later	Direct/via switch	Supported (11.1 to 11.4)	Supported (11.1 to 11.4)	Supported (11.1 to 11.4)	Supported (11.1 to 11.4)	Yes *1	-	Supported	Supported 18c/19c	-	
	SP1X7FAA2F/SP1X5FAA2F	EMPD3.1.1 or later + Storage Cluster	via switch *13	Supported (11.1/11.2)	Supported (11.1/11.2)	Supported (11.1/11.2)	Supported (11.1/11.2)	*7	-	Supported	-	-	
SPARC Solaris 11 (including OVM *4)	CD4V7E	MPxIO *11	Direct/via switch	Supported (11.1 to 11.4)	Supported (11.1 to 11.4)	Supported (11.1 to 11.4)	Supported (11.1 to 11.4)	Yes *1	Supported	Supported	Supported (11gR2/12cR1/12cR2/ 18c/19c)	-	
	SP1X7FAA2F/SP1X5FAA2F 7101673/7101674,	MPxIO + Storage Cluster *11	via switch *13	Supported (11.1/11.2)	Supported (11.1/11.2)	Supported (11.1/11.2)	Supported (11.1/11.2)	*7	Supported	Supported	Supported (11gR2)	-	
	7101681/7101682 (+ 7101675/7101676)	VxVM DMP	Direct/via switch	Supported (11.1 to 11.3)	Supported (11.1 to 11.3)	Supported (11.1 to 11.3)	Supported (11.1 to 11.3)	Yes *1	-	-	-	Supported	
		VxVM DMP + Storage Cluster	via switch *13	Supported (11.1/11.2)	Supported (11.1/11.2)	Supported (11.1/11.2)	Supported (11.1/11.2)	*7	-	-	-	Supported 6.1.1 only	
	0047754005	EMPD3.1.0 or later	via switch	Supported (11.1 to 11.4)	Supported (11.1 to 11.4)	Supported (11.1 to 11.4)	Supported (11.1 to 11.4)	Yes *1	-	Supported	Supported 18c/19c	-	
	SP1X7FAB2F	EMPD3.1.1 or later + Storage Cluster	via switch *13	Supported (11.1/11.2)	Supported (11.1/11.2)	Supported (11.1/11.2)	Supported (11.1/11.2)	*7	-	Supported	-	-	
		MPxIO *11	via switch	Supported (11.1 to 11.4)	Supported (11.1 to 11.4)	Supported (11.1 to 11.4)	Supported (11.1 to 11.4)	Yes *1	Supported	Supported	Supported (11gR2/12cR1/12cR2/ 18c/19c)	-	
	SP1X7FAB2F	MPxIO + Storage Cluster *11	via switch *13	Supported (11.1/11.2)	Supported (11.1/11.2)	Supported (11.1/11.2)	Supported (11.1/11.2)	*7	Supported	Supported	Supported (11gR2)	-	
	7101673/7101674 (+ 7101679/7101680)	VxVM DMP	via switch	Supported (11.1 to 11.3)	Supported (11.1 to 11.3)	Supported (11.1 to 11.3)	Supported (11.1 to 11.3)	Yes *1	-	-	-	Supported	
		VxVM DMP + Storage Cluster	via switch *13	Supported (11.1/11.2)	Supported (11.1/11.2)	Supported (11.1/11.2)	Supported (11.1/11.2)	*7	-	-	-	Supported 6.1.1 only	

- \*1 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.
- \*4 When configuring Storage Cluster, OVM is not supported.
- \*7 Please contact Fujitsu about SAN boot on Storage Cluster configuration.
- \*8 When using SP1X7FAC2F, please apply SRU17081 or later.
- \*10 PCL's I/O Fencing function is used for cluster configuration among guest domains.
- \*11 When using MPxIO, please apply SRU15021 or later.
- \*13 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.
- \*14 Veritas InfoScale Availability 7.1 or later is supported on Other Company's server only.
- \*15 Oracle Solaris Cluster Geotraphic Edition is not supported.
- \*16 Replication using Storage's remote copy function is not supported.
- \*18 When using HBA SP0X7FAA4F, please apply SRU18021 or later.

					Storag	ge					Cluster		
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	OSC *15 4.1 to 4.4	PCL 4.3/4.5 /4.6 *10	Oracle RAC /SEHA	VCS (including Oracle RAC) *16 6.0/6.1/6.2 Veritas InfoScale Availability 7.0/7.1/7.3.1 *14	
		EMPD3.1.0 or later	via switch	Supported (11.3/11.4)	Supported (11.3/11.4)	Supported (11.3/11.4)	Supported (11.3/11.4)	Yes *1	-	Supported	Supported 18c/19c	-	
	SP1X7FBC2F *17	EMPD3.1.1 or later + Storage Cluster	via switch *13	Supported (11.3)	Supported (11.3)	Supported (11.3)	Supported (11.3)	*7	-	Supported	-	-	
	(7115461/7115459)	MPxIO *11	Direct/via switch	Supported (11.3/11.4)	Supported (11.3/11.4)	Supported (11.3/11.4)	Supported (11.3/11.4)	Yes *1	Supported	Supported	Supported (12cR1/12cR2/18c/19c)	-	
		MPxIO + Storage Cluster *11	via switch *13	Planned 2	Planned 2	Planned 2	Planned 2	*7	-	Planned 2	-	-	
	SP1X7FBA2F/SP1X5FBA2F	EMPD3.1.0 or later	via switch	Supported (11.1 to 11.4)	Supported (11.3/11.4)	Supported (11.1 to 11.4)	Supported (11.1 to 11.4)	Yes *1	-	Supported	Supported 18c/19c	-	
	GF IATE BAZETOF TAGE BAZE	EMPD3.1.1 or later + Storage Cluster	via switch *3	Supported (11.1/11.2)	Planned 2	Supported (11.1/11.2)	Supported (11.1/11.2)	*7	-	Supported	-	-	
	SP1X7FBA2F/SP1X5FBA2F	MPxIO *11	via switch	Supported (11.1 to 11.4)	Supported (11.3/11.4)	Supported (11.1 to 11.4)	Supported (11.1 to 11.4)	Yes *1	Supported	Supported	Supported (11gR2/12cR1/12cR2/ 18c/19c)	-	
	7101683/7101684,	MPxIO + Storage Cluster *11	via switch *3	Supported (11.1/11.2)	Planned 2	Supported (11.1/11.2)	Supported (11.1/11.2)	*7	Supported	Supported	Supported (11gR2)	-	
	7101689/7101690 ( + 7101685/7101686)	VxVM DMP	via switch	Supported (11.1 to 11.3)	Supported (11.3)	Supported (11.1 to 11.3)	Supported (11.1 to 11.3)	Yes *1	-	-	-	Supported	
		VxVM DMP + Storage Cluster	via switch *3	Supported (11.1/11.2)	Planned 2	Supported (11.1/11.2)	Supported (11.1/11.2)	*7	-	-	-	Supported 6.1.1 only	
	SP1X7FAR2F/SP1X7FAS2F	EMPD3.1.0 or later		Supported (11.1 to 11.3)	Planned 2	Supported (11.1 to 11.3)	Planned 2	Yes *1	-	Supported	Supported 18c/19c	-	
	SP1X/FAR2F/SP1X/FAS2F SP1X5FAR2F/SP1X5FAS2F	EMPD3.1.1 or later + Storage Cluster	-	Planned 2	Planned 2	Planned 2	Planned 2	*7	-	Planned 2	-	-	
	SP1X7FAR2F/SP1X7FAS2F	MPxIO *11	FCoE switch	Supported (11.1 to 11.3)	Planned 2	Supported (11.1 to 11.3)	Planned 2	Yes *1	-	Supported	Supported (12cR1/12cR2/18c/19c)	-	
SPARC	SP1X5FAR2F/SP1X5FAS2F	MPxIO + Storage Cluster *11	*13	Planned 2	Planned 2	Planned 2	Planned 2	*7	-	Planned 2	Planned 2	-	
Solaris 11 (including OVM *4)	7101673/7101674, 7101681/7101682 (+ 7101677/7101678 or Copper)	VxVM DMP		Supported (11.1 to 11.3)	Planned 2	Supported (11.1 to 11.3)	Planned 2	Yes *1	-	-	-	Supported	
	(+ / 1016//// 1016/8 of Copper)	VxVM DMP + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	*7	-	-	-	Planned 2	
	SP1X7FBR2F/SP1X7FBS2F	EMPD3.1.0 or later		Supported (11.1 to 11.3)	Planned 2	Supported (11.1 to 11.3)	Planned 2	Yes *1	-	Supported	Supported 18c/19c	-	
	SP1X5FBR2F/SP1X5FBS2F	EMPD3.1.1 or later + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	*7	-	Planned 2	-	-	
	SP1X7FBR2F/SP1X7FBS2F	MPxIO *11	FCoE switch	Supported (11.1 to 11.3)	Planned 2	Supported (11.1 to 11.3)	Planned 2	Yes *1	-	Supported	Supported (12cR1/12cR2/18c/19c)	-	
	SP1X5FBR2F/SP1X5FBS2F	MPxIO + Storage Cluster *3 *11	*13	Planned 2	Planned 2	Planned 2	Planned 2	*7	-	Planned 2	Planned 2	-	
	7101683/7101684, 7101689/7101690	VxVM DMP		Supported (11.1 to 11.3)	Planned 2	Supported (11.1 to 11.3)	Planned 2	Yes *1	-	-	-	Supported	
	(+ 7101687/7101688 or Copper)	VxVM DMP + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	*7	-	-	-	Planned 2	
	SE0X7F21F/SE0X7F22F/ SE5X7F22G*2	EMPD3.1.0 or later	Direct/via switch	Supported (11.1 to 11.4)	Planned 2	Supported (11.1 to 11.4)	Planned 2	Yes *1	-	Supported	Supported 18c/19c	-	
		EMPD3.1.1 or later + Storage Cluster	via switch *13	Supported (11.1/11.2)	Planned 2	Supported (11.1/11.2)	Planned 2	*7	-	Supported	-	-	
	SE0X7F21F/SE0X7F22F/	MPxIO *11	Direct/via switch	Supported (11.1 to 11.4)	Planned 2	Supported (11.1 to 11.4)	Planned 2	Yes *1	Supported	Supported	Supported (11gR2/12cR1/12cR2/ 18c/19c)	-	
	SE5X7F22G*2	MPxIO + Storage Cluster *11	via switch *13	Supported (11.1/11.2)	Planned 2	Supported (11.1/11.2)	Planned 2	*7	Supported	Supported	Supported (11gR2)	-	
	SG-XPCIE1FC-QF8 SG-XPCIE2FC-QF8 SG-XPCIEFCGBE-Q8	VxVM DMP	Direct/via switch	Supported (11.1 to 11.3)	Planned 2	Supported (11.1 to 11.3)	Planned 2	Yes *1	-	-	-	Supported	
	3.2.3322 43	VxVM DMP + Storage Cluster	via switch *13	Supported (11.1/11.2)	Planned 2	Supported (11.1/11.2)	Planned 2	*7	-	-	-	Supported 6.1.1 only	

- \*1 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.
- \*2 HBA SE5X7F22G and SE5X7F32G do not support EMPD 3.1.1.
- \*3 When configuring Storage Cluster, Brocade 6505/6510/6520/DCX8510-4/DCX8510-8 switches cannot be used as a FC switch.
- \*4 When configuring Storage Cluster, OVM is not supported.
- \*7 Please contact Fujitsu about SAN boot on Storage Cluster configuration.
- \*10 PCL's I/O Fencing function is used for cluster configuration among guest domains.
- \*11 When using MPxIO, please apply SRU15021 or later.
- \*13 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.
- \*14 Veritas InfoScale Availability 7.1 or later is supported on Other Company's server only.
- \*15 Oracle Solaris Cluster Geotraphic Edition is not supported.
- \*16 Replication using Storage's remote copy function is not supported.
- \*17 When using SP1X7FBC2F, please apply SRU17081 or later.

					Storaç	ge					Cluster		
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	OSC *15 4.1 to 4.4	PCL 4.3/4.5 /4.6 *10	Oracle RAC /SEHA	VCS (including Oracle RAC) *16 6.0/6.1/6.2 Veritas InfoScale Availability 7.0/7.1/7.3.1 *14	
	SE0X7F31F/SE0X7F32F/	EMPD3.1.0 or later	Direct/via switch	Supported (11.1 to 11.4)	Planned 2	Supported (11.1 to 11.4)	Planned 2	Yes *1	-	Supported	Supported 18c/19c	-	
	SE5X7F32G*2	EMPD3.1.1 or later + Storage Cluster	via switch *3	Supported (11.1/11.2)	Planned 2	Supported (11.1/11.2)	Planned 2	*7	-	Supported	-	-	
	SE0X7F31F/SE0X7F32F/	MPxIO *11	Direct/via switch	Supported (11.1 to 11.4)	Planned 2	Supported (11.1 to 11.4)	Planned 2	Yes *1	Supported	Supported	Supported (11gR2/12cR1/12cR2/ 18c/19c)	-	
	SE5X7F32G*2	MPxIO + Storage Cluster *11	via switch *3	Supported (11.1/11.2)	Planned 2	Supported (11.1/11.2)	Planned 2	*7	Supported	Supported	Supported (11gR2)	-	
	SG-XPCIE1FC-EM8 SG-XPCIE2FC-EM8 7105393/SG-XPCIEFCGBE-E8	VxVM DMP	Direct/via switch	Supported (11.1 to 11.3)	Planned 2	Supported (11.1 to 11.3)	Planned 2	Yes *1	-	-	-	Supported	
		VxVM DMP + Storage Cluster	via switch *3	Supported (11.1/11.2)	Planned 2	Supported (11.1/11.2)	Planned 2	*7	-	-	-	Supported 6.1.1 only	
	SE0X7EC12F/SE0X7EF12F	MPxIO *11		Supported (11.1/11.2)	Planned 2	Supported (11.1/11.2)	Planned 2	Yes *1	-	Supported	Supported (12cR1/12cR2/18c/19c)	-	
	SG-XPCIEFCOE2-Q-SR,	MPxIO + Storage Cluster *11	FCoE switch	Planned 2	Planned 2	Planned 2	Planned 2	*7	-	Planned 2	Planned 2	-	
	QLE8140/QLE8142 SG-XPCIEFCOE2-Q-TA QLE8150/QLE8152	VxVM DMP	*13	Supported (11.1/11.2)	Planned 2	Supported (11.1/11.2)	Planned 2	Yes *1	-	-	-	Supported	
	QLE0130/QLE0132	VxVM DMP + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	*7	-	-	-	Planned 2	
	LPe32000 / LPe32002	MPxIO *11	Direct/via switch	Supported (11.3/11.4)	Supported (11.3/11.4)	Supported (11.3/11.4)	Supported (11.3/11.4)	Yes *1	Supported		Supported (12cR1/12cR2/18c/19c)		
	QLe2740/QLe2742/QLe2764	MPxIO *11	Direct/via switch	Supported (11.3/11.4)	Supported (11.3/11.4)	Supported (11.3/11.4)	Supported (11.3/11.4)	Yes *1	Supported		Supported (12cR1/12cR2/18c/19c)		
		MPxIO *11	via switch	Supported (11.1 to 11.4)	Planned 2	Supported (11.1 to 11.4)	Supported (11.1 to 11.4)	Yes *1	Supported	-	Supported (11gR2/12cR1/12cR2/ 18c/19c)	-	
SPARC	LPe16000 / LPe16002	MPxIO + Storage Cluster *11	via switch *3	Supported (11.1/11.2)	Planned 2	Supported (11.1/11.2)	Supported (11.1/11.2)	*7	Supported	-	Supported (11gR2)	-	
Solaris 11 (including OVM *4)		VxVM DMP	via switch	Supported (11.1 to 11.3)	Supported (11.1 to 11.3)	Supported (11.1 to 11.3)	Supported (11.1 to 11.3)	Yes *1	-	-	-	Supported	
		VxVM DMP + Storage Cluster	via switch *3	Supported (11.1/11.2)	Supported (11.1/11.2)	Supported (11.1/11.2)	Supported (11.1/11.2)	*7	-	-	-	Supported 6.1.1 only	
		MPxIO *11	Direct/via switch	Supported (11.1 to 11.3)	Planned 2	Supported (11.1 to 11.3)	Planned 2	Yes *1	Supported	-	Supported (11gR2/12cR1/12cR2/ 18c/19c)	-	
	LPe12000/LPe12002/LPe1250	MPxIO + Storage Cluster *11	via switch *3	Supported (11.1/11.2)	Planned 2	Supported (11.1/11.2)	Planned 2	*7	Supported	-	Supported (11gR2)	-	
		VxVM DMP	Direct/via switch	Supported (11.1 to 11.3)	Planned 2	Supported (11.1 to 11.3)	Planned 2	Yes *1	-	-	-	Supported	
		VxVM DMP + Storage Cluster	via switch *3	Supported (11.1/11.2)	Planned 2	Supported (11.1/11.2)	Planned 2	*7	-	-	-	Supported 6.1.1 only	
		MPxIO *11	Direct/via switch	Supported (11.1 to 11.3)	Planned 2	Supported (11.1 to 11.3)	Planned 2	Yes *1	Supported	-	Supported (11gR2/12cR1/12cR2/ 18c/19c)	-	
	QLE2560/QLE2562	MPxIO + Storage Cluster *11	via switch *13	Supported (11.1/11.2)	Planned 2	Supported (11.1/11.2)	Planned 2	*7	Supported	-	Supported (11gR2)	-	
		VxVM DMP	Direct/via switch	Supported (11.1 to 11.3)	Planned 2	Supported (11.1 to 11.3)	Planned 2	Yes *1	-	-	-	Supported	
		VxVM DMP + Storage Cluster	via switch *13	Supported (11.1/11.2)	Planned 2	Supported (11.1/11.2)	Planned 2	*7	-	-	-	Supported 6.1.1 only	
	LP11000/LP11002/LP1150 LPe11000/LPe11002	MPxIO *11	Direct/ via switch	Supported (11.1/11.2)	N.A.	Supported (11.1/11.2)	N.A.	Yes *1	Supported	-	Supported (11gR2/12cR1/12cR2/ 18c/19c)	-	
	LPe1150	VxVM DMP	via Swittil	Supported (11.1/11.2)	N.A.	Supported (11.1/11.2)	N.A.	Yes *1	-	-	-	Supported	
	QLA2460/QLA2462/	MPxIO *11	Direct/	Supported (11.1/11.2)	N.A.	Supported (11.1/11.2)	N.A.	Yes *1	Supported	-	Supported (11gR2/12cR1/12cR2/ 18c/19c)	-	
	QLE2460/QLE2462/QLE2464	VxVM DMP	via switch	Supported (11.1/11.2)	N.A.	Supported (11.1/11.2)	N.A.	Yes *1	-	-	-	Supported	

- \*1 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.
- \*3 When configuring Storage Cluster, Brocade 6505/6510/6520/DCX8510-4/DCX8510-8 switches cannot be used as a FC switch.
- \*4 When configuring Storage Cluster, OVM is not supported.
- \*7 Please contact Fujitsu about SAN boot on Storage Cluster configuration.
- \*10 PCL's I/O Fencing function is used for cluster configuration among guest domains.
- \*11 When using MPxIO, please apply SRU15021 or later.
- \*13 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.
- \*14 Veritas InfoScale Availability 7.1 or later is supported on Other Company's server only.
- \*15 Oracle Solaris Cluster Geotraphic Edition is not supported.
- \*16 Replication using Storage's remote copy function is not supported.

					Stora	ge					Cluster		
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	OSC *15 3.2/3.3	PCL 4.2/4.3/4.5 /4.6 *10	Oracle RAC 11gR2	VCS (including Oracle RAC) *16 5.1/6.0/6.1/6.2 *9 Veritas InfoScale Availability 7.0/7.1 *14	
	SP1X7FAA2F/SP1X5FAA2F	EMPD3.1.0 or later	Direct/via switch	Supported (10/08 or later)	Supported (10/08 or later)	Supported (10/08 or later)	Supported (10/08 or later)	Yes *1	-	Supported	-	-	
	5. 17.7.7.7 (E1.7.6). 17.61.7.1 (E1.	EMPD3.1.1 or later + Storage Cluster	via switch *13	Planned 2	Planned 2	Planned 2	Planned 2	*7	-	Planned 2	-	-	
		MPxIO *12	Direct/via switch	Supported (10/08 or later)	Supported (10/08 or later)	Supported (10/08 or later)	Supported (10/08 or later)	Yes *1	Supported	Supported	Supported	-	
	SP1X7FAA2F/SP1X5FAA2F 7101673/7101674.	MPxIO + Storage Cluster *12	via switch *13	Supported (10/08 or later)	Supported (10/08 or later)	Supported (10/08 or later)	Supported (10/08 or later)	*7	Supported	Supported	Supported	-	
	7101673/7101674; 7101681/7101682 (+ 7101675/7101676)	VxVM DMP	Direct/via switch	Supported (10/08 or later)	Supported (10/08 or later)	Supported (10/08 or later)	Supported (10/08 or later)	Yes *1*6	-	-	-	Supported	
		VxVM DMP + Storage Cluster	via switch *13	Supported (10/08 or later)	Supported (10/08 or later)	Supported (10/08 or later)	Supported (10/08 or later)	*7	-	-	-	Supported 6.1.1 only	
	SP1X7FAB2F	EMPD3.1.0 or later	via switch	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Supported (10/08 or later)	Yes *1	-	Supported	-	-	
	OF IXTI ADZI	EMPD3.1.1 or later + Storage Cluster	via switch *13	Planned 2	Planned 2	Planned 2	Planned 2	*7	-	Planned 2	-	-	
		MPxIO *12	via switch	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Supported (10/08 or later)	Yes *1	Supported	Supported	Supported	-	
	SP1X7FAB2F	MPxIO + Storage Cluster *12	via switch *13	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Supported (10/08 or later)	*7	Supported	Supported	Supported	-	
	7101673/7101674 (+ 7101679/7101680)	VxVM DMP	via switch	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	Yes *1*6	-	-	-	Supported	
SPARC		VxVM DMP + Storage Cluster	via switch *13	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	*7	-	-	-	Supported 6.1.1 only	
Solaris10 (including OVM *4)	SP1X7FBA2F/SP1X5FBA2F	EMPD3.1.0 or later	via switch	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Supported (10/08 or later)	Yes *1	-	Supported	-	-	
	OF IXTEDAZI TOT IXOT BAZI	EMPD3.1.1 or later + Storage Cluster	via switch *3	Planned 2	Planned 2	Planned 2	Planned 2	*7	-	Planned 2	-	-	
		MPxIO *12	via switch	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Supported (10/08 or later)	Yes *1	Supported	Supported	Supported	-	
	SP1X7FBA2F/SP1X5FBA2F 7101683/7101684,	MPxIO + Storage Cluster *12	via switch *3	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Supported (10/08 or later)	*7	Supported	Supported	Supported	-	
	7101689/7101690 ( + 7101685/7101686)	VxVM DMP	via switch	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	Yes *1 *6	-	-	-	Supported	
	, 	VxVM DMP + Storage Cluster	via switch *3	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	*7	-	-	-	Supported 6.1.1 only	
	SP1X7FAR2F/SP1X7FAS2F	EMPD3.1.0 or later		Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	Yes *1	-	Supported	-	-	
	SP1X5FAR2F/SP1X5FAS2F	EMPD3.1.1 or later + Storage Cluster	]	Planned 2	Planned 2	Planned 2	Planned 2	*7	-	Planned 2	-	-	
	SP1X7FAR2F/SP1X7FAS2F	MPxIO *12	FCoE switch	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	Yes *1	-	Supported	Planned 2	-	
	SP1X7FAR2F/SP1X7FAS2F SP1X5FAR2F/SP1X5FAS2F	MPxIO + Storage Cluster *12	*13	Planned 2	Planned 2	Planned 2	Planned 2	*7	-	Planned 2	Planned 2	-	
	7101673/7101674, 7101681/7101682	VxVM DMP		Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	Yes *1*6	-	-	-	Supported	
	(+ 7101677/7101678 or Copper)	VxVM DMP + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	*7	-	-	-	Planned 2	1

<sup>\*1</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*3</sup> When configuring Storage Cluster, Brocade 6505/6510/6520/DCX8510-4/DCX8510-8 switches cannot be used as a FC switch.

<sup>\*4</sup> When configuring Storage Cluster, OVM is not supported.

<sup>\*6</sup> SAN boot on VxVM5.1 is not supported.

<sup>\*7</sup> Please contact Fujitsu about SAN boot on Storage Cluster configuration.

<sup>\*9</sup> Veritas Storage Foundation(VSF) 6.1/6.2 do not support Solaris 10 10/09(u8) and former, VSF 6.0 does not support Solaris 10 5/09(u7) and former. Thin provisioning function of ETERNUS is not supported on VSF 5.1.

<sup>\*10</sup> PCL's I/O Fencing function is used for cluster configuration among guest domains.

<sup>\*12</sup> When using MPxIO, please apply 151615-01 or later.

<sup>\*13</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*14</sup> Veritas InfoScale Availability 7.1 or later is supported on Other Company's server only.

<sup>\*15</sup> Oracle Solaris Cluster Geotraphic Edition is not supported.

<sup>\*16</sup> Replication using Storage's remote copy function is not supported.

					Storaç	je					Cluster		
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	OSC *15 3.2/3.3	PCL 4.2/4.3/4.5 /4.6 *10	Oracle RAC 11gR2	VCS (including Oracle RAC) *16 5.1/6.0/6.1/6.2 *9 Veritas InfoScale Availability 7.0/7.1 *14	Instruction for use
	SP1X7FBR2F/SP1X7FBS2F	EMPD3.1.0 or later		Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	Yes *1	-	Supported	-	-	
	SP1X5FBR2F/SP1X5FBS2F	EMPD3.1.1 or later + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	*7	-	Planned 2	-	-	
	SP1X7FBR2F/SP1X7FBS2F	MPxIO *12	FCoE switch	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	Yes *1	Supported	Supported	Supported	-	
	SP1X5FBR2F/SP1X5FBS2F	MPxIO + Storage Cluster *3 *12	*13	Planned 2	Planned 2	Planned 2	Planned 2	*7	-	Planned 2	Planned 2	-	
	7101683/7101684, 7101689/7101690	VxVM DMP		Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	Yes *1*6	-	-	-	Supported	
	(+ 7101687/7101688 or Copper)	VxVM DMP + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	*7	-	-	-	Planned 2	
	SE0X7F21F/SE0X7F22F/	EMPD3.1.0 or later	Direct/via switch	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	Yes *1	-	Supported	-	-	
	SE5X7F22G *2	EMPD3.1.1 or later + Storage Cluster	via switch *13	Planned 2	Planned 2	Planned 2	Planned 2	*7	-	Planned 2	-	-	
	SE0X7F21F/SE0X7F22F/	MPxIO *12	Direct/via switch	Supported (10/08 or later)	Supported (10/08 or later)	Supported (10/08 or later)	Planned 2	Yes *1	Supported	Supported	Supported	-	
	SE5X7F22G *2	MPxIO + Storage Cluster *12	via switch *13	Supported (10/08 or later)	Supported (10/08 or later)	Supported (10/08 or later)	Planned 2	*7	Supported	Supported	Supported	-	
	SG-XPCIE1FC-QF8 SG-XPCIE2FC-QF8 SG-XPCIEFCGBE-Q8	VxVM DMP	Direct/via switch	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	Yes *1*6	-	-	-	Supported	
	3G-AFCIEFCGBE-Q0	VxVM DMP + Storage Cluster	via switch *13	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	*7	-	-	-	Supported 6.1.1 only	
SPARC Solaris10	SE0X7F31F/SE0X7F32F/	EMPD3.1.0 or later	Direct/via switch	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	Yes *1	-	Supported	-	-	
(including OVM *4)	SE5X7F32G *2	EMPD3.1.1 or later + Storage Cluster	via switch *3	Planned 2	Planned 2	Planned 2	Planned 2	*7	-	Planned 2	-	-	
	SE0X7F31F/SE0X7F32F/	MPxIO *12	Direct/via switch	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	Yes *1	Supported	Supported	Supported	-	
	SE5X7F32G *2	MPxIO + Storage Cluster *12	via switch *3	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	*7	Supported	Supported	Supported	-	
	SG-XPCIE1FC-EM8 SG-XPCIE2FC-EM8 7105393/SG-XPCIEFCGBE-E8	VxVM DMP	Direct/via switch	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	Yes *1*6	-	-	-	Supported	
	7 100090/3G-AFCIEFCGBE-E0	VxVM DMP + Storage Cluster	via switch *3	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	*7	-	-	-	Supported 6.1.1 only	
	SE0X7EC12F/SE0X7EF12F	MPxIO *12		Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	Yes *1	-	Supported	Planned 2	-	
	SG-XPCIEFCOE2-Q-SR,	MPxIO + Storage Cluster *12	FCoE switch	Planned 2	Planned 2	Planned 2	Planned 2	*7	-	Planned 2	Planned 2	-	
	QLE8140/QLE8142 SG-XPCIEFCOE2-Q-TA QLE8150/QLE8152	VxVM DMP	*13	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	Yes *1*6	-	-	-	Supported	
	QLEO100/QLEO102	VxVM DMP + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	*7	-	-	-	Planned 2	
	SE0X7F11F/SE0X7F12F	EMPD3.1.0 or later	Direct/	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	Yes *1	-	Supported	-	-	
		VxVM DMP	via switch	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	Yes *1*6	-	-	-	Supported	
	SG-XPCIE1FC-QF4/	MPxIO *12	Direct	Supported (5/09 or later)	N.A.	Supported (10/08 or later)	N.A.	No	-	-	-	-	
	SG-XPCIE2FC-QF4	IIII XIO IE	via switch	Supported (10/08 or later)	N.A.	Supported (10/08 or later)	N.A.	Yes *1	-	-	-	-	

- \*1 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.
- \*2 HBA SE5X7F22G and SE5X7F32G do not support EMPD 3.1.1.
- \*3 When configuring Storage Cluster, Brocade 6505/6510/6520/DCX8510-4/DCX8510-8 switches cannot be used as a FC switch.
- \*4 When configuring Storage Cluster, OVM is not supported.
- \*6 SAN boot on VxVM5.1 is not supported.
- \*7 Please contact Fujitsu about SAN boot on Storage Cluster configuration.
- \*9 Veritas Storage Foundation(VSF) 6.1/6.2 do not support Solaris 10 10/09(u8) and former, VSF 6.0 does not support Solaris 10 5/09(u7) and former. Thin provisioning function of ETERNUS is not supported on VSF 5.1.
- \*10 PCL's I/O Fencing function is used for cluster configuration among guest domains.
- \*12 When using MPxIO, please apply 151615-01 or later.
- \*13 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.
- \*14 Veritas InfoScale Availability 7.1 or later is supported on Other Company's server only.
- \*15 Oracle Solaris Cluster Geotraphic Edition is not supported.
- \*16 Replication using Storage's remote copy function is not supported.

					Storaç	де					Cluster		
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	OSC *15 3.2/3.3	PCL 4.2/4.3/4.5/4.6	Oracle RAC 11gR2	VCS (including Oracle RAC) *16 5.1/6.0/6.1/6.2 *9 Veritas InfoScale Availability 7.0/7.1 *14	
	Brocade 815/825	MPxIO *12	via switch	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	Yes *1	-	-	Supported	-	
	Brocade 415/425	MPxIO *12	via switch	Supported (10/08 or later)	N.A.	Supported (10/08 or later)	N.A.	Yes *1	-	-	Supported	-	
		MPxIO *12	via switch	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Supported (10/08 or later)	Yes *1	Supported	-	Supported	-	
	LPe16000 / LPe16002	MPxIO + Storage Cluster *12	via switch *3	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Supported (10/08 or later)	*7	Supported	-	Supported	-	
	LFe100007 LFe10002	VxVM DMP	via switch	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	Yes *1 *6	-	-	-	Supported	
		VxVM DMP + Storage Cluster	via switch *3	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	*7	-	-	-	Supported 6.1.1 only	
		MPxIO *12	Direct/via switch	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	Yes *1	Supported	-	Supported	-	
	LPe12000/LPe12002/LPe1250	MPxIO + Storage Cluster *12	via switch *3	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	*7	Supported	-	Supported	-	
SPARC Solaris10	LF e 12000/LF e 12002/LF e 1200	VxVM DMP	Direct/via switch	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	Yes *1*6	-	-	-	Supported	
(including OVM *4)		VxVM DMP + Storage Cluster	via switch *3	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	*7	-	-	-	Supported 6.1.1 only	
		MPxIO *12	Direct/via switch	Supported (10/08 or later)	Supported (10/08 or later)	Supported (10/08 or later)	Planned 2	Yes *1	Supported	-	Supported	-	
	QLE2560/QLE2562	MPxIO + Storage Cluster *12	via switch *13	Supported (10/08 or later)	Supported (10/08 or later)	Supported (10/08 or later)	Planned 2	*7	Supported	-	Supported	-	
	QLE2500/QLE2502	VxVM DMP	Direct/via switch	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	Yes *1*6	-	-	-	Supported	
		VxVM DMP + Storage Cluster	via switch *13	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	*7	-	-	-	Supported 6.1.1 only	
	LP11000/LP11002/LP1150 LPe11000/LPe11002	MPxIO *12	Direct/	Supported (10/08 or later)	N.A.	Supported (10/08 or later)	N.A.	Yes *1	Supported	-	Supported	-	
	LPe1150	VxVM DMP	via switch	Supported (10/08 or later)	N.A.	Supported (10/08 or later)	N.A.	Yes *1*6	-	-	-	Supported	
	QLA2460/QLA2462/	MPxIO *12	Direct/	Supported (10/08 or later)	N.A.	Supported (10/08 or later)	N.A.	Yes *1	Supported		Supported	-	
	QLE2460/QLE2462/QLE2464	VxVM DMP	via switch	Supported (10/08 or later)	N.A.	Supported (10/08 or later)	N.A.	Yes *1*6	-	-	-	Supported	

<sup>\*1</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*3</sup> When configuring Storage Cluster, Brocade 6505/6510/6520/DCX8510-4/DCX8510-8 switches cannot be used as a FC switch.

<sup>\*4</sup> When configuring Storage Cluster, OVM is not supported.

<sup>\*6</sup> SAN boot on VxVM5.1 is not supported.

<sup>\*7</sup> Please contact Fujitsu about SAN boot on Storage Cluster configuration.

<sup>\*9</sup> Veritas Storage Foundation(VSF) 6.1/6.2 do not support Solaris 10 10/09(u8) and former, VSF 6.0 does not support Solaris 10 5/09(u7) and former. Thin provisioning function of ETERNUS is not supported on VSF 5.1.

<sup>\*12</sup> When using MPxIO, please apply 151615-01 or later.

<sup>\*13</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*14</sup> Veritas InfoScale Availability 7.1 or later is supported on Other Company's server only.

<sup>\*15</sup> Oracle Solaris Cluster Geotraphic Edition is not supported.

<sup>\*16</sup> Replication using Storage's remote copy function is not supported.

					Storaç	je			
os	НВА	Path Failover	Connected type	DX S5/S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX8900 S4 (FC 16Gbps port)	DX8900 S4 (FC 32Gbps port)	SAN boot	Instruction for use
	QLE2740/QLE2742 *19	MPxIO *11	via switch	Supported (11.3)	Supported (11.3)	Supported (11.3)	Planned 2	Yes *1	
	QLE2670/QLE2672	MPxIO *11	via switch	Supported (11.3)	Supported (11.3)	Supported (11.3)	Planned 2	Yes *1	
	Brocade 815/825	MPxIO *11	via switch	Supported (11.1/11.2)	Planned 2	Supported (11.1/11.2)	Planned 2	No	
	Brocade 415/425	MPxIO *11	via switch	Supported (11.1/11.2)	N.A.	Supported (11.1/11.2)	N.A.	No	
	LPe16000 / LPe16002	MPxIO *11	via switch	Supported (11.1/11.2)	Planned 2	Supported (11.1/11.2)	Planned 2	No	
x86 Solaris11	El 6100007 El 610002	MPxIO + Storage Cluster *11	via switch *3	Supported (11.1/11.2)	Planned 2	Supported (11.1/11.2)	Planned 2	No	
*5	LPe12000/LPe12002/LPe1250	MPxIO *11	Direct/via switch	Supported (11.1/11.2)	Planned 2	Supported (11.1/11.2)	Planned 2	No	
	E1 012000/E1 012002/E1 01200	MPxIO + Storage Cluster *11	via switch *3	Supported (11.1/11.2)	Planned 2	Supported (11.1/11.2)	Planned 2	No	
	QLE2560/QLE2562	MPxIO *11	Direct/via switch	Supported (11.1/11.2)	Planned 2	Supported (11.1/11.2)	Planned 2	No	
		MPxIO + Storage Cluster *11	via switch *13	Supported (11.1/11.2)	Planned 2	Supported (11.1/11.2)	Planned 2	No	
	LP11000/LP11002/LP1150 LPe11000/LPe11002 LPe1150	MPxIO *11	Direct/ via switch	Supported (11.1/11.2)	N.A.	Supported (11.1/11.2)	N.A.	No	
	QLA2460/QLA2462/ QLE2460/QLE2462/QLE2464	MPxIO *11	Direct/ via switch	Supported (11.1/11.2)	N.A.	Supported (11.1/11.2)	N.A.	No	
	Brocade 815/825	MPxIO *12	via switch	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	No	
	Brocade 415/425	MPxIO *12	via switch	Supported (10/08 or later)	N.A.	Supported (10/08 or later)	N.A.	No	
	LPe16000 / LPe16002	MPxIO *12	via switch	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	No	
	21 010000 / 21 010002	MPxIO *12	via switch *3	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	No	
x86 Solaris10	LPe12000/LPe12002/LPe1250	MPxIO *12	Direct/via switch	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	No	
*5		MPxIO + Storage Cluster *12	via switch *3	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	No	
	QLE2560/QLE2562	MPxIO *12	Direct/via switch	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	No	
		MPxIO + Storage Cluster *12	via switch *13	Supported (10/08 or later)	Planned 2	Supported (10/08 or later)	Planned 2	No	
	LP11000/LP11002/LP1150 LPe11000/LPe11002 LPe1150	MPxIO *12	Direct/ via switch	Supported (10/08 or later)	N.A.	Supported (10/08 or later)	N.A.	No	
	QLA2460/QLA2462/ QLE2460/QLE2462/QLE2464	MPxIO *12	Direct/ via switch	Supported (10/08 or later)	N.A.	Supported (10/08 or later)	N.A.	No	

<sup>\*1</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*3</sup> When configuring Storage Cluster, Brocade 6505/6510/6520/DCX8510-4/DCX8510-8 switches cannot be used as a FC switch.

<sup>\*5</sup> Only HBAs sold by Oracle and HBAs mounted on each supported vendor server are supported.

<sup>\*11</sup> When using MPxIO, please apply SRU15021 or later.

<sup>\*12</sup> When using MPxIO, please apply 151615-01 or later.

<sup>\*13</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.
\*19 When using QLE2740/QLE2742, please apply SRU11.3.23.5.0 or later.

# Solaris (iSCSI connection) Edition 170: 2022/1/14

### Notes

- Please contact the server supplier for the server support status of OS and multipath software listed here.
- Please contact the product supplier for the operating condition of multipath software and adapter listed here.
- Please contact the clusterware supplier for combination of Server, OS version, multipath software, HBA, and clusterware version.
- Please use the latest version of adapter firmware and driver unless note is stated.
- Direct connection with NIC/CNA of which speed is 25Gbps or more is not supported.
- Storage Cluster function is not supported on DX60 S5/S4/S3.
- UNMAP function is not supported on Deduplication/Compression volume.
- In this document, the following abbreviations are used;

PCL (PRIMECLUSTER)

- Trademark symbols have been omitted from this document.

				Storage		Clu	ster	
os	Adapter	Path Failover	Connected type	DX S5/S4/S3 series AF series/DX200F	iSCSI boot	PCL 4.2/4.3/4.5/4.6 *2	Oracle RAC /SEHA	Instruction for use
		MPxIO *5	Direct/ via switch *4	Supported (11.1 to 11.4)	Yes *7 *9	Supported	Supported (11gR2, 12cR1/12cR2)	
SPARC Solaris 11 (including OVM)	Each network interface card (NIC) and CNA *1 (using software initiator)	MPxIO + Storage Cluster *5 (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported (11.1/11.2)	No	Supported	Planned 2	*10
		MPxIO + Storage Cluster *5 (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	N.A.	
	·	MPxIO *6	Direct/ via switch *4	Supported (10/09 or later)	Yes *8 *9	-	-	
SPARC Solaris 10 (including OVM)	Each network interface card (NIC) and CNA *1 (using software initiator)	MPxIO + Storage Cluster *6 (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported (10/09 or later)	No	Supported	Planned 2	*10 Path policy does not change after Storage Cluster FailOver.
		MPxIO + Storage Cluster *6 (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	N.A.	

- \*1 : Please ask server vendor about usable NIC and CNA part numbers
- \*2 PCL's I/O Fencing function is used for cluster configuration among guest domains.
- \*4 When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, please use Catalyst firmware 12.2(54)SG1.
- \*5 For either condition below, degradation due to one path failure may not trigger path failover.
- Solaris 11.1 SRU14061 to SRU14071
- Solaris 11.2 GA or later

How to avoid: Set "conn-login-max" parameter value to "120".

Example: # /usr/sbin/iscsiadm modify initiator-node -T conn-login-max=120

- \*6 For the condition below, degradation due to one path failure may not trigger path failover.
- Kernel patch 150400-14 or later is applied to Solaris 10.

How to avoid: Set "conn-login-max" parameter value to "120".

Example: # /usr/sbin/iscsiadm modify initiator-node -T conn-login-max=120

- \*7 iSCSI Boot is supported on Fujitsu M10, Solaris 11.2 or later. Please refer to the server's latest product note for Boot instruction.
- \*8 iSCSI Boot is supported on Fujitsu M10, Solaris 10 1/13 or later. Please refer to the server's latest product note for Boot instruction.
- \*9 When ETERNUS iSCSI port used for iSCSI boot is shared among multiple servers, please share with Solaris OS servers only.
- \*10 At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

				Storage		Clu	ster	
os	Adapter	Path Failover	Connected type	DX S4/S3 series AF series/DX200F (except AF S3 series)	iSCSI boot	PCL 4.3	Oracle RAC 11gR2	Instruction for use
		MPxIO	Direct/ via switch *4	Supported (11.1/11.2)	No	N.A.	N.A.	
x86 Solaris 11	Each network interface card (NIC) and CNA *1 (using software initiator)	MPxIO + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported (11.1/11.2)	No	N.A.	N.A.	
		MPxIO + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	N.A.	
		MPxIO	Direct/ via switch *4	Supported (10/08 or later)	No	N.A.	N.A.	
x86 Solaris 10	Each network interface card (NIC) and CNA *1 (using software initiator)	MPxIO + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported (10/08 or later)	No	N.A.	N.A.	*10
		MPxIO + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	N.A.	

<sup>\*1 :</sup> Please ask server vendor about usable NIC and CNA part numbers

<sup>\*4</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, please use Catalyst firmware 12.2(54)SG1.
\*10 At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

### Solaris (SAS connection) Edition 169: 2021/11/26

#### Notes

- Please contact the server supplier for the server support status of OS and multipath software listed here.
- Please contact the product supplier for the operating condition of multipath software and adapter listed here.
- Please contact the clusterware supplier for combination of Server, OS version, multipath software, HBA, and clusterware version.
- Please use the latest version of adapter firmware and driver unless note is stated.
- In this document, the following abbreviations are used;

PCL (PRIMECLUSTER)

- UNMAP function is not supported on Deduplication/Compression volume.
- Trademark symbols have been omitted from this document.

				Sto	rage		Cluster	
os	НВА	Path Failover	Connected type	DX60 S4/S3 DX100 S3 DX200 S3 (SAS 6Gbps port)	DX60 S5/S4 DX100 S5/S4 DX200 S5/S4 (SAS 12Gbps port)	SAS boot	PCL 4.2/4.3/4.5 /4.6 *3	Instruction for use
	SP1X7SA3F/L/W	MPxIO	Direct/ via switch *2	Supported (11.1 to 11.4)	Supported (11.1 to 11.4)	Yes *1	Supported	For Solaris 11.4, please apply SRU19021 or later.
SPARC Solaris 11	SE0X7SA2F/ SG-SAS6-EXT-Z/ 7105387	MPxIO	Direct/ via switch *2	Supported (11.1 to 11.4)	Supported (11.1 to 11.4)	Yes *1	Supported	For Solaris 11.4, please apply SRU19021 or later.
(including OVM)	SE5X7SA1G	MPxIO	Direct/ via switch *2	Supported (11.1 to 11.4)	Supported (11.1 to 11.4)	Yes *1	Supported	For Solaris 11.4, please apply SRU19021 or later.
	SG-XPCIE8SAS-E-Z SG-XPCI8SAS-E-Z	MPxIO	Direct/ via switch *2	Supported (11.1/11.2/11.3)	-	Yes *1	-	
	SE0X7SA2F/ SG-SAS6-EXT-Z/ 7105387	MPxIO	Direct/ via switch *2	Supported (10/08 or later)	Supported (10/08 or later)	Yes *1	Supported	
SPARC Solaris 10 (including OVM)	SE5X7SA1G	MPxIO	Direct/ via switch *2	Supported (10/08 or later)	Supported (10/08 or later)	Yes *1	Supported	
	SG-XPCIE8SAS-E-Z SG-XPCI8SAS-E-Z	MPxIO	Direct/ via switch *2	Supported (10/08 or later)	-	Yes *1	-	
x86 Solaris 11	SG-XPCIE8SAS-E-Z SG-XPCI8SAS-E-Z	MPxIO	Direct/ via switch *2	Supported (11.1/11.2)	-	Yes *1	-	
x86 Solaris 10	SG-XPCIE8SAS-E-Z SG-XPCI8SAS-E-Z	MPxIO	Direct/ via switch *2	Supported (10/08 or later)	-	Yes *1	-	

<sup>\*1</sup> ETERNUS supports SAS boot, but please ask server supplier if the connected server supports SAS boot.

<sup>\*2</sup> Only direct connection is supported on DX100 S4 and DX200 S4.

<sup>\*3</sup> PCL's I/O Fencing function is used for cluster configuration among guest domains.

### Solaris (FCoE connection) Edition 131: 2019/3/28

#### Notes

- Please contact the server supplier for the server support status of OS and multipath software listed here.
- Please contact the product suppliers for the operating condition of multipath software and CNA listed here.
- Please use the latest version of CNA firmware and driver unless note is stated.
- Please contact the server supplier for connection availability of CNA and FCoE switch.
- Please contact the clusterware supplier for combination of Server, OS version, multipath software, HBA, and clusterware version.
- ETERNUS DX60 S3 is not applicable since FCoE interface is not supported.
- UNMAP function is not supported on Deduplication/Compression volume.
- Trademark symbols have been omitted from this document.
- In this document, the following abbreviations are used;

PCL (PRIMECLUSTER)

			Connected	Storage	FCoE	Cluster	
OS	CNA	Path Failover	type	DX S3 series	boot	PCL 4.3/4.5 *5	Instruction for use
	SE0X7EC12F/SE0X7EF12F  SG-XPCIEFCOE2-Q-SR, QLE8140/QLE8142 SG-XPCIEFCOE2-Q-TA QLE8150/QLE8152	MPxIO *3	FCoE switch	Supported (11.1/11.2)	Yes *1	Supported	
	SP1X7FAR2F/SP1X7FAS2F SP1X5FAR2F/SP1X5FAS2F	EMPD3.1.0 or later	FCoE switch	Supported (11.1 to 11.3)	Yes *1	Supported	
SPARC Solaris 11 (including OVM)	SP1X7FAR2F/SP1X7FAS2F SP1X5FAR2F/SP1X5FAS2F 7101673/7101674, 7101681/7101682 (+ 7101677/7101678 or Copper)	MPxIO *3	FCoE switch	Supported (11.1 to 11.3)	Yes *1	Supported	
	SP1X7FBR2F/SP1X7FBS2F SP1X5FBR2F/SP1X5FBS2F 7101683/7101684, 7101689/7101690 (+ 7101687/7101688 or Copper)	MPxIO *3	FCoE switch	Supported (11.1 to 11.3)	Yes *1	Supported	
	OcE10102	MPxIO *3	FCoE switch	Supported (11.1 to 11.3)	Yes *1	-	

<sup>\*1</sup> ETERNUS supports FCoE boot, but please ask server supplier if the connected server supports FCoE boot.

<sup>\*3</sup> When using MPxIO, please apply SRU15021 or later.

<sup>\*5</sup> PCL's I/O Fencing function is used for cluster configuration among guest domains.

			Connected	Storage	FCoE	Cluster	
OS	CNA	Path Failover	type	DX S3 series	boot	PCL 4.2/4.3/4.5 *5	Instruction for use
	SE0X7EC12F/SE0X7EF12F  SG-XPCIEFCOE2-Q-SR, QLE8140/QLE8142 SG-XPCIEFCOE2-Q-TA QLE8150/QLE8152	MPxIO *4	FCoE switch	Supported (10/08 or later)	Yes *1	Supported	
	SP1X7FAR2F/SP1X7FAS2F SP1X5FAR2F/SP1X5FAS2F	EMPD3.1.0 or later	FCoE switch	Supported (10/08 or later)	Yes *1	Supported	
SPARC Solaris 10 (including OVM)	SP1X7FAR2F/SP1X7FAS2F SP1X5FAR2F/SP1X5FAS2F 7101673/7101674, 7101681/7101682	MPxIO *4	FCoE switch	Supported (10/08 or later)	Yes *1	Supported	
	(+ 7101677/7101678 or Copper)  SP1X7FBR2F/SP1X7FBS2F SP1X5FBR2F/SP1X5FBS2F						
	7101683/7101684, 7101689/7101690 (+ 7101687/7101688 or Copper)	MPxIO *4	FCoE switch	Supported (10/08 or later)	Yes *1	Supported	
	OcE10102	MPxIO *4	FCoE switch	Supported (10/08 or later)	Yes *1	-	

<sup>\*1</sup> ETERNUS supports FCoE boot, but please ask server supplier if the connected server supports FCoE boot.

<sup>\*5</sup> PCL's I/O Fencing function is used for cluster configuration among guest domains.

			Connected	Storage	FCoE	
OS	CNA	Path Failover	type	DX S3 series	boot	Instruction for use
x86 Solaris 11 *2	OCe10102	MPxIO *3	FCoE switch	Supported (11.1/11.2)	Yes *1	
x86 Solaris 10 *2	OCe10102	MPxIO *4	FCoE switch	Supported (10/08 or later)	Yes *1	

<sup>\*1</sup> ETERNUS supports FCoE boot, but please ask server supplier if the connected server supports FCoE boot.

<sup>\*4</sup> When using MPxIO, please apply 151615-01 or later.

<sup>\*2</sup> Only CNAs sold by Oracle and HBAs mounted on each supported vendor server are supported.

<sup>\*3</sup> When using MPxIO, please apply SRU15021 or later.

<sup>\*4</sup> When using MPxIO, please apply 151615-01 or later.

# HP-UX (FC connection) Edition 146: 2019/11/5

### Notes

- Please contact the server supplier for the server support status of OS, multipath software, HBA and clusterware listed here.
- Please contact the product supplier for operating condition of multipath software and HBA listed here.
- Please use the latest version of HBA firmware and driver unless note is stated.
- Please contact the server supplier for connection availability of HBA and FC switch.
- Please contact the clusterware supplier for combination of Server, OS version, multipath software, HBA, and clusterware version.
- UNMAP function is not supported on Deduplication/Compression volume.
- Trademark symbols have been omitted from this document.
- DX8900 S4, AF S3 series are not supported.
- Storage Cluster function is not supported on DX60 S4/S3.
- In this document, the following abbreviations are used;

NMP (Native Multipathing), VCS (Veritas Cluster Server)

				Stora	ge			Cluster		
os	НВА	Path Failover	Connected type	DX S4/S3 series AF series DX200F (FC 8/16 Gbps port)	DX S4 series AF series (FC 32Gbps port)	SAN boot	ServiceGuard A.11.18 to A.11.20	Oracle RAC	VCS *3 5.0/5.1/6.0	Instruction for use
		NMP	Direct/via switch	Supported	Planned 2	Yes *1	Supported	Planned 2	-	
	ALL400A /ALL400A	NMP + Storage Cluster	via switch *4	Supported	Planned 2	*2	Supported	Planned 2	-	
	AH402A/AH403A 456972-B21(LPe1205) AT094A	PV-Links	Direct/via switch	Supported	Planned 2	Yes *1	Supported	Planned 2	-	
	71100 171	VxVM	Direct/via switch	Supported	Planned 2	No	-	-	Supported	
		VxVM + Storage Cluster	via switch *4	Supported	Planned 2	No	-	-	Supported 6.0.5	
		NMP	Direct/via switch	Supported	Planned 2	Yes *1	Supported	Planned 2	-	
		NMP + Storage Cluster	via switch *4	Supported	Planned 2	*2	Supported	Planned 2	-	
HP-UX 11iv3 (IPF/PA-RISC)	AH400A/AH401A 451871-B21(QMH2562)	PV-Links	Direct/via switch	Supported	Planned 2	Yes *1	Supported	Planned 2	-	
		VxVM	Direct/via switch	Supported	Planned 2	No	-	-	Supported	
		VxVM + Storage Cluster	via switch *4	Supported	Planned 2	No	-	-	Supported 6.0.5	
		NMP	Direct/via switch	Supported	N.A.	Yes *1	Supported	Planned 2	-	
	AD299A/AD355A	NMP + Storage Cluster	via switch *4	Supported	N.A.	*2	Supported	Planned 2	-	
	AD221A/AD222A AD393A	PV-Links	Direct/via switch	Supported	N.A.	Yes *1	Supported	Planned 2	-	
	403621-B21(LPe1105)	VxVM	Direct/via switch	Supported	N.A.	No	-	-	Supported	
		VxVM + Storage Cluster	via switch *4	Supported 19/280	N.A.	No	-	-	Supported 6.0.5	Copyright 2023 FUJITSU LIMITED

- \*1 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.
- \*2 Please contact Fujitsu about SAN boot on Storage Cluster configuration.
- \*3 Thin provisioning function of ETERNUS is not supported on Veritas Storage Foundation 5.0/5.1.
- \*4 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

				Stora	ge			Cluster		
OS	НВА	Path Failover	Connected type	DX S4/S3 series AF series DX200F (FC 8/16 Gbps port)	DX S4 series AF series (FC 32Gbps port)	SAN boot	ServiceGuard A.11.18/A11.19	Oracle RAC	VCS *3 5.0/5.1/6.0	Instruction for use
		NMP	Direct/via switch	Supported	N.A.	Yes *1	Supported	Planned 2	-	
	AB378A/AB378B	NMP + Storage Cluster	via switch *4	Supported	N.A.	*2	Supported	Planned 2	-	
HP-UX 11iv3 (IPF/PA-RISC)	AB379A/AB379B AD193A/AD194A AD300A	PV-Links	Direct/via switch	Supported	N.A.	Yes *1	Supported	Planned 2	-	
	403619-B21(QMH2462)	VxVM	Direct/via switch	Supported	N.A.	No	-	-	Supported	
		VxVM + Storage Cluster	via switch *4	Supported	N.A.	No	-	-	Supported 6.0.5	

<sup>\*1</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*2</sup> Please contact Fujitsu about SAN boot on Storage Cluster configuration.

<sup>\*3</sup> Thin provisioning function of ETERNUS is not supported on Veritas Storage Foundation 5.0/5.1.

<sup>\*4</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

				Stora	ge		
os	НВА	Path Failover	Connected type	DX S4/S3 series AF series DX200F (FC 8/16 Gbps port)	DX S4 series AF series (FC 32Gbps port)	SAN boot	Instruction for use
	AH402A/AH403A	NMP	Direct/via switch	Supported	Planned 2	Yes *1	
	456972-B21(LPe1205) AT094A	PV-Links	Direct/via switch	Supported	Planned 2	Yes *1	
	AH400A/AH401A	NMP	Direct/via switch	Supported	Planned 2	Yes *1	
	451871-B21(QMH2562)	PV-Links	Direct/via switch	Supported	Planned 2	Yes *1	
HP-UX 11iv3(IPF) + Integrity VM4.1/5.x	AD299A/AD355A AD221A/AD222A	NMP	Direct/via switch	Supported	N.A.	Yes *1	
	AD393A 403621-B21(LPe1105)	PV-Links	Direct/via switch	Supported	N.A.	Yes *1	
	AB378A/AB378B AB379A/AB379B AD193A/AD194A	NMP	Direct/via switch	Supported	N.A.	Yes *1	
	AD193A/AD194A AD300A 403619-B21(QMH2462)	PV-Links	Direct/via switch	Supported	N.A.	Yes *1	

<sup>\*1</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

# HP-UX (iSCSI connection) Edition 146: 2019/11/5

#### Notes

- Please contact the server supplier for the server support status of OS and multipath software listed here.
- Please contact the product supplier for operating condition of multipath software and adapter listed here.
- Please use the latest version of adapter firmware and driver unless note is stated.
- Direct connection with NIC/CNA of which speed is 25Gbps or more is not supported.
- DX8900 S4, AF S3 series are not supported.
- Storage Cluster function is not supported on DX60 S4/S3.
- UNMAP function is not supported on Deduplication/Compression volume.
- Trademark symbols have been omitted from this document.
- In this document, the following abbreviations are used;

**NMP (Native Multipathing)** 

			Commonted	Storage	:0001	
OS	Adapter	Path Failover	Connected type	DX S4/S3 series AF series DX200F	iSCSI boot	Instruction for use
		NMP	Direct / via switch *1	Supported	No	
HP-UX 11iv3(IPF/PA-RISC)	NIC	NMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported	No	At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun
TIF-UX TIIV3(IFF/FA-RISC)	(using software initiator)	NMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Supported	No	I/O.
		PV-Links	Direct / via switch	Planned 2	No	

<sup>\*1</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, please use Catalyst firmware 12.2(54)SG1.

# AIX (FC connection) Edition 173: 2022/7/19

Notes - Please contact the server supplier for the server support status of OS, multipath software, HBA and clusterware listed here.

- Please contact the product supplier for operating condition of multipath software and HBA listed here.
- Please use the latest version of HBA firmware and driver unless note is stated.
- Please contact the server supplier for connection availability of HBA and FC switch.
- Please contact the clusterware supplier for combination of Server, OS version, multipath software, HBA, and clusterware version.
- UNMAP function is not supported on Deduplication/Compression volume.
- Trademark symbols have been omitted from this document.
- Storage Cluster function is not supported on DX60 S5/S4/S3.
- In this document, the following abbreviations are used;
- **EMPD (ETERNUS Multipath Driver), VCS (Veritas Cluster Server)**
- FC 8Gbps (maximum transfer rate) of "DX S5 series" is supported only on DX60 S5.

					Storage					Cluster		
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	PowerHA 7.2	Oracle RAC	VCS 6.0/6.1/6.2 Veritas InfoScale Availability 7.0	Instruction for use
	FC:EN1A/EL5U /EN1B/EL5V	MPIO *5	Direct/via switch	Supported	Supported	Supported	Supported	Yes *1 *6	Planned 2	Planned 2	-	
	CCIN:578F	MPIO + *5 Storage Cluster	via switch *4	Supported	Supported	Supported	Supported	Yes *1 *6	Planned 2	Planned 2	-	
		EMPD	Direct/via switch	N.A.	N.A.	N.A.	N.A.	-	-	-	-	The sale of ETERNUS Multipath Driver AIX version was terminated.
	FC: EL5B/EN0A/EN0B	MPIO *5	Direct/via switch	Supported	Supported	Supported	Supported	Yes *1 *6	Supported	Supported	-	
	CCIN: 577F FC; EN2A/EN2B	MPIO + *5 Storage Cluster	via switch *4	Supported	Supported	Supported	Supported	Yes *1 *6	Supported	Supported	-	
	CCIN: 579D	VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	Planned 2	
		VxVM + Storage Cluster	via switch *4	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	Planned 2	
		EMPD	Direct/via switch	N.A.	N.A.	N.A.	N.A.	-	-	-	-	The sale of ETERNUS Multipath Driver AIX version was terminated.
AIX7.2	EC: 5725/5720	MPIO *5	Direct/via switch	Supported	Supported	Supported	Supported	Yes *1 *6	Supported	Supported	-	
	FC: 5735/5729 CCIN: 577D/5729	MPIO + *5 Storage Cluster	via switch *4	Supported	Supported	Supported	Supported	Yes *1 *6	Supported	Supported	-	
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	Planned 2	
		VxVM + Storage Cluster	via switch *4	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	Planned 2	
		EMPD	Direct/via switch	N.A.	N.A.	N.A.	N.A.	-	-	-	-	The sale of ETERNUS Multipath Driver AIX version was terminated.
	FC: 5773/5774/5758/5759	MPIO *5	Direct/via switch	Supported	Supported	Supported	Planned 2	Yes *1 *6	Supported	Supported	-	
	1905/1910 CCIN: 5773/5774/5759	MPIO + *5 Storage Cluster	via switch *4	Planned 2	N.A.	Planned 2	N.A.	No	Planned 2	Planned 2	-	
	1910/280D/280E	VxVM	Direct/via switch	Planned 2	N.A.	Planned 2	N.A.	No	-	-	Planned 2	
		VxVM + Storage Cluster	via switch *4	Planned 2	N.A.	Planned 2	N.A.	No	-	-	Planned 2	

- \*1 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.
- \*4 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.
- \*5 Plug-in for MPIO is required. Please download from Fujitsu Storage web. <a href="http://www.fujitsu.com/global/support/products/computing/storage/download/odm-aixmpio.html">http://www.fujitsu.com/global/support/products/computing/storage/download/odm-aixmpio.html</a>
- \*6 FJSVmpio can not be uninstalled nor updated on SAN boot condition.

					Storage					Cluster		
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	PowerHA 7.1	Oracle RAC	VCS 6.0/6.1/6.2 Veritas InfoScale Availability 7.0	Instruction for use
	FC:EN1A/EL5U /EN1B/EL5V	MPIO *5	Direct/via switch	Supported	Supported	Supported	Supported	Yes *1 *6	Planned 2	Planned 2	-	
	CCIN:578F	MPIO + *5 Storage Cluster	via switch *4	Supported	Supported	Supported	Supported	Yes *1 *6	Planned 2	Planned 2	-	
		EMPD	Direct/via switch	N.A.	N.A.	N.A.	N.A.	-	-	-	-	The sale of ETERNUS Multipath Driver AIX version was terminated.
	FC: EL5B/EN0A/EN0B	MPIO *5	Direct/via switch	Supported	Supported	Supported	Supported	Yes *1 *6	Supported	Planned 2	-	
	CCIN: 577F FC; EN2A/EN2B	MPIO + *5 Storage Cluster	via switch *4	Supported	Supported	Supported	Supported	Yes *1 *6	Planned 2	Planned 2	-	
	CCIN: 579D	VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	Planned 2	
		VxVM + Storage Cluster	via switch *4	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	Planned 2	
		EMPD	Direct/via switch	N.A.	N.A.	N.A.	N.A.	-	-	-	-	The sale of ETERNUS Multipath Driver AIX version was terminated.
	50 5NOV/5N40	MPIO *5	Direct/via switch	Supported	Supported	Supported	Planned 2	No	Supported	Planned 2	-	
	FC: EN0Y/EN12 CCIN: EN0Y	MPIO + *5 Storage Cluster	via switch *4	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	-	
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-		Planned 2	
		VxVM + Storage Cluster	via switch *4	Planned 2	Planned 2	Planned 2	Planned 2	No	-		Planned 2	
AIX7.1		EMPD	Direct/via switch	Supported	N.A.	Supported	N.A.	Yes *1	-	Planned 2	-	The sale of ETERNUS Multipath Driver AIX version was terminated.
		EMPD + Storage Cluster	via switch *4	Supported	N.A.	Supported	N.A.	*2	-	Planned 2	-	The sale of ETERNUS Multipath Driver AIX version was terminated.
	FC: 5735/5729	MPIO *5	Direct/via switch	Supported	Planned 2	Supported	Planned 2	No	Supported	Planned 2	-	
	CCIN: 577D/5729	MPIO + *5 Storage Cluster	via switch *4	Supported	Planned 2	Supported	Planned 2	No	Supported	Planned 2	-	
		VxVM	Direct/via switch	Supported	Planned 2	Supported	Planned 2	No	-	-	Supported	
		VxVM + Storage Cluster	via switch *4	Supported	Planned 2	Supported	Planned 2	No	-	-	Supported 6.1.1	
		EMPD	Direct/via switch	Supported	N.A.	Supported	N.A.	Yes *1	-	Planned 2	-	The sale of ETERNUS Multipath Driver AIX version was terminated.
	FC:	EMPD + Storage Cluster	via switch *4	Supported	N.A.	Supported	N.A.	*2	-	Planned 2	-	The sale of ETERNUS Multipath Driver AIX version was terminated.
	5773/5774/5758/5759 1905/1910	MPIO *5	Direct/via switch	Supported	N.A.	Supported	N.A.	No	Supported	Planned 2	-	
	CCIN: 5773/5774/5759	MPIO + *5 Storage Cluster	via switch *4	Planned 2	N.A.	Planned 2	N.A.	No	Planned 2	Planned 2	-	
	1910/280D/280E	VxVM	Direct/via switch	Supported	N.A.	Supported	N.A.	No	-	-	Supported	
		VxVM + Storage Cluster	via switch *4	Supported	N.A.	Planned 2	N.A.	No	-	-	Supported 6.1.1	

<sup>\*1</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

\*6 FJSVmpio can not be uninstalled nor updated on SAN boot condition.

<sup>\*2</sup> Please contact Fujitsu about SAN boot on Storage Cluster configuration.

<sup>\*4</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*5</sup> Plug-in for MPIO is required. Please download from Fujitsu Storage web.

					Storage					Cluster	
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	PowerHA	Oracle RAC	Instruction for use
	FC:EN1A/EL5U /EN1B/EL5V	MPIO *5	Direct/via switch	Supported	Supported	Supported	Supported	Yes *1 *6	Planned 2	Supported	
	CCIN:578F	MPIO + *5 Storage Cluster	via switch *4	Supported	Supported	Supported	Supported	Yes *1 *6	Planned 2	Supported	
	FC: EL5B/EN0A/EN0B  CCIN: 577F	MPIO *5	Direct/via switch	Supported	Supported	Supported	Supported	Yes *1 *6	Planned 2	Supported	
	FC; EN2A/EN2B CCIN: 579D	MPIO + *5 Storage Cluster	via switch *4	Supported	Supported	Supported	Supported	Yes *1 *6	Planned 2	Supported	
AIX6.1	FC: EN0Y/EN12	MPIO *5	Direct/via switch	Supported	Supported	Supported	Supported	Yes *1 *6	Planned 2	Supported	
	CCIN: EN0Y	MPIO + *5 Storage Cluster	via switch *4	Supported	Supported	Supported	Supported	Yes *1 *6	Planned 2	Supported	
	FC: 5735/5729	MPIO *5	Direct/via switch	Supported	Supported	Supported	Supported	Yes *1 *6	Planned 2	Supported	
	CCIN: 577D/5729	MPIO + *5 Storage Cluster	via switch *4	Supported	Supported	Supported	Supported	Yes *1 *6	Planned 2	Supported	
	FC: 5773/5774/5758/5759 1905/1910	MPIO *5	Direct/via switch	Supported	Supported	Supported	Supported	Yes *1 *6	Planned 2	Supported	
	CCIN: 5773/5774/5759 1910/280D/280E	MPIO + *5 Storage Cluster	via switch *4	Supported	Supported	Supported	Supported	Yes *1 *6	Planned 2	Supported	

<sup>\*1</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*4</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*5</sup> Plug-in for MPIO is required. Please download from Fujitsu Storage web. <a href="http://www.fujitsu.com/global/support/products/computing/storage/download/odm-aixmpio.html">http://www.fujitsu.com/global/support/products/computing/storage/download/odm-aixmpio.html</a>

<sup>\*6</sup> FJSVmpio can not be uninstalled nor updated on SAN boot condition.

					Storage				
os	НВА	Storage Cluster	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	Instruction for use
	FC:EN1A/EL5U /EN1B/EL5V	No	via switch	Supported	Supported	Supported	Supported	Yes *1 *9	
	CCIN:578F	Yes	via switch *4	Supported	Supported	Supported	Supported	Yes *1 *9	There is no restriction for VIOS from ETERNUS point of view. Please consult IBM for VIOC usage
VIOS 3.1	FC: EL5B/EN0A/EN0B  CCIN: 577F	No	via switch	Supported	Supported	Supported	Supported	Yes *1 *9	condition,  Redundancy of paths is managed by VIOS. Please check supported OS information of VIOC for Path Failover of VIOC.
	FC; EN2A/EN2B CCIN: 579D	Yes	via switch *4	Supported	Supported	Supported	Supported	Yes *1 *9	

<sup>\*1</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*9</sup> To define ETERNUS LUN to VIOS, configure multipath configuration by using FJSVmpio. FJSVmpio can not be uninstalled nor updated on SAN boot condition.

					Storage				
os	НВА	Storage Cluster	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	Instruction for use
	FC: EL5B/EN0A/EN0B  CCIN: 577F	No	via switch	Supported	Supported	Supported	Supported	Yes *1 *9	
	FC; EN2A/EN2B CCIN: 579D	Yes	via switch *4	Supported	Supported	Supported	Supported	Yes *1 *9	
	FC: EN0Y/EN12	No	via switch	Supported	Supported	Supported	Supported	Yes *1 *9	There is no restriction for VIOS from ETERNUS point of view. Please consult IBM for VIOC usage
VIOS 2.2	CCIN: EN0Y	Yes	via switch *4	Supported	Supported	Supported	Supported	Yes *1 *9	condition,  Redundancy of paths is managed by VIOS. Please check supported OS information of VIOC for Path
	FC: 5735/5729	No	via switch	Supported	Supported	Supported	Supported	Yes *1 *9	Fallower of MOC
	CCIN: 577D/5729	Yes	via switch *4	Supported	Supported	Supported	Supported	Yes *1 *9	
	FC: 5773/5774/5758/5759 1905/1910	No	via switch	Supported	-	Supported	-	Yes *1 *9	
	CCIN: 5773/5774/5759 1910/280D/280E	Yes	via switch *4	Supported	-	Supported	-	Yes *1 *9	

<sup>\*1</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*4</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*4</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*9</sup> To define ETERNUS LUN to VIOS, configure multipath configuration by using FJSVmpio. FJSVmpio can not be uninstalled nor updated on SAN boot condition.

### Windows (FC connection) Edition 183: 2023/12/22

Notes

- Please contact the server supplier for the server support status of OS, multipath software, HBA and clusterware listed here.
- Please contact the product supplier for operating condition of multipath software and HBA listed here.
- Please use the latest version of HBA firmware and driver unless note is stated.
- Please use the latest version of server BIOS unless note is stated.
- Please contact the server supplier for connection availability of HBA and FC switch.
- Please contact the clusterware supplier for combination of Server, OS version, multipath software, HBA, and clusterware version.
- Trademark symbols have been omitted from this document.
- HBA for PRIMEQUEST is shown as MC-0JFCn\*, the character "\*" can be any character applicable. Ex) MC-0JFC3\* means MC-0JFC31 and MC-0JFC3L are applicable.
- When using Windows's vFC function, FC switch supporting NPIV is required. Only Windows OSs are supported as guest OSs.
- On VxVM configuration, UNMAP function is not supported on Deduplication/Compression volume.
- Storage Cluster function is not supported on DX60 S5/S4/S3.
- "Storage Space Direct function" using ETERNUS LUN is not supported.
- In this document, the following abbreviations are used;
- EMPD (ETERNUS Multipath Driver), WSFC (Windows Server Failover Clustering)
- FC 8Gbps (maximum transfer rate) of "DX S5 series" is supported only on DX60 S5.

					Storage	9			Cluster	
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Instruction for use
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
	MC-0JFCR* MC-0JFCS*	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	
	*7	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
Windows Server 2022		OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	
(including Hyper-V)		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
	MC-0JFCV*	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	
MC-0JFCW*	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported		
	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported		

<sup>\*7</sup> When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

<sup>\*8</sup> Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*10</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Storage	e			Cluster	
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Instruction for use
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
	MC-0JFCF* MC-0JFCG*	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	
	*7	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
		OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
	MC-0JFCK*	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	
	MC-0JFCL*	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
Windows Server 2022		OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	
(including Hyper-V)		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
	MC-0JFCM* MC-0JFCN*	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	
	*7	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
		OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
	MC-0JFCP*	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	
	MC-0JFCQ*	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
		OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	

<sup>\*7</sup> When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*10</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Storage	•			Cluster				
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Oracle RAC /SEHA 19c/21c	CLUSTER Pro X	LifeKeeper v8 or later	Instruction for use
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
	PY-FC441/PYBFC441/ PYBFC441L PY-FC442/PYBFC442/	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
	PYBFC442L *7	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
		OS bundled + Storage Cluster	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
	PY-FC421/PYBFC421/ PYBFC421L PY-FC422/PYBFC422/ PYBFC422L *7	EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
		EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
		OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
Windows Server 2022 (including Hyper-V)		OS bundled + Storage Cluster	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
Windows Server IoT 2022 for Storage Standard	PY-FC351/PYBFC351/	EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
	PYBFC351L PY-FC352/PYBFC352/ PYBFC352L	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
	S26361-F4044-L501/E1/E201 S26361-F4044-L502/E2/E202	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
	*7	OS bundled + Storage Cluster	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
	PY-FC331/PYBFC331/	EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
	PYBFC331L PY-FC332/PYBFC332/ PYBFC332L S26361-F5596-L501/E1/E201 S26361-F5596-L502/E2/E202 *7	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
		OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
*7 When connecting conter and F		OS bundled + Storage Cluster	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	

<sup>\*7</sup> When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

\*10 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Storage	<del>-</del>				С			
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Oracle RAC /SEHA 19c/21c	CLUSTER Pro X	LifeKeeper v8 or later	Instruction for use
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
	PY-FC411/PYBFC411/ PYBFC411L	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
	PY-FC412/PYBFC412/ PYBFC412L	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
		OS bundled + Storage Cluster	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
	PY-FC341/PYBFC341/ PYBFC341L PY-FC342/PYBFC342/	EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
Windows Server 2022 (including Hyper-V)		EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
Windows Server IoT 2022 for Storage Standard	PYBFC342L S26361-F4043-L501/E1/E201	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
	S26361-F4043-L502/E2/E202	OS bundled + Storage Cluster	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
	PY-FC321/PY-FC322/	EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
	S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
	S26361-F5580-L502 S26361-F5580-E2	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
	S26361-F5580-E202	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	

<sup>\*8</sup> Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

\*10 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

											Cluster			
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Oracle RAC /SEHA 19c/21c	CLUSTER Pro X	LifeKeeper v8 or later	VCS 6.1	Instruction for use
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
	LD-00000 / LD-00000	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
	LPe36000 / LPe36002 or OEM products *7	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
	, and the second	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	-	-	-	Planned 2	
	LPe35000 / LPe35002 or OEM products *7	EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
		EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
		OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
		OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
Windows Server 2022 (including Hyper-V)		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	-	-	-	Planned 2	
Windows Server IoT 2022 for Storage Standard		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
		EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
	LPe32000 / LPe32002 or OEM products *7	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
	·	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	-	-	-	Planned 2	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
		EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
	LPe31000 / LPe31002 or OEM products *7	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
	,	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	-	-	-	Planned 2	

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

\*7 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*10</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

	Storage							Ι			Cluster			
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Oracle RAC /SEHA 19c/21c	CLUSTER Pro X	LifeKeeper v8 or later	VCS 6.1	Instruction for use
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	
	01 50070/01 50070/	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	
	QLE2870/QLE2872/ QLE2874 or OEM products	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
	or o'Elw producto	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	-	-	-	Planned 2	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	
	QLE2770/QLE2772/ QLE2774 or OEM products	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	
		OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
		OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
Windows Server 2022 (including Hyper-V)		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	-	-	-	Planned 2	
Windows Server IoT 2022 for Storage Standard		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	
		EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	
	QLE2740/QLE2742/ QLE2764 or OEM products	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
	S. SEM producto	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	-	-	-	Planned 2	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	
		EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	
	QLE2690/QLE2692/ QLE2694 or OEM products	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
	2. <u>62</u> producto	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	-	-	-	Planned 2	

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*10</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

			Connected type		Storage	e			Cluster	
OS	HBA	Path Failover		DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Instruction for use
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
	MC-0JFCF* MC-0JFCG*	EMPD + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	*7	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
		OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	
	MC-0JFCK* MC-0JFCL*	EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
		EMPD + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
		OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
Windows Server 2019		OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	
(including Hyper-V)		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
	MC-0JFCM* MC-0JFCN*	EMPD + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	*7	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
		OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
	MC-0JFCP*	EMPD + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	MC-0JFCQ*	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
*7 When connecting conver and E		OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	

<sup>\*7</sup> When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.
\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

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<sup>\*10</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

				Storage					Cluster	
OS	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Instruction for use
		EMPD	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
Windows Server 2019	MC-0JFC3*	EMPD + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
(including Hyper-V)	MC-0JFC9*	OS bundled	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
		OS bundled + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	

<sup>\*7</sup> When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.
\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

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<sup>\*10</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Storage	•			Cluster	
OS	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Instruction for use
		EMPD	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	MC-0JFC4*	EMPD + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	MC-0JFCA*	OS bundled	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
		OS bundled + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
		EMPD	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	MC-0JFC5*	EMPD + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	MC-0JFJ6*	OS bundled	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
		OS bundled + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
Windows Server 2019	MC-0JFC7*	EMPD + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
(including Hyper-V)	MC-0JFC8*	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
		OS bundled + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
	MC-0JFCB*	EMPD + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	MC-0JFCC*	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
		OS bundled + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
	MC-0JFCD*	EMPD + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	MC-0JFCE*	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
		OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	

<sup>\*8</sup> Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*10</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Storage	e				C	luster		
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Oracle RAC /SEHA 18c/19c	CLUSTER Pro X	LifeKeeper v8 or later	Instruction for use
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	
	PY-FC441/PYBFC441/ PYBFC441L PY-FC442/PYBFC442/	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	HBA's driver version "14.0.326.17" or
	PYBFC442L *7	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	later is supported.
		OS bundled + Storage Cluster	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	
	PY-FC421/PYBFC421/ PYBFC421L PY-FC422/PYBFC422/	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	
	PYBFC422L *7	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
		OS bundled + Storage Cluster	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	
	PY-FC411/PYBFC411/ PYBFC411L	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	
	PY-FC412/PYBFC412/ PYBFC412L	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
		OS bundled + Storage Cluster	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
Windows Server 2010	PY-FC351/PYBFC351/	EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	
Windows Server 2019 (including Hyper-V)	PYBFC351L PY-FC352/PYBFC352/ PYBFC352L	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	
Windows Server IoT 2019 for Storage Standard	S26361-F4044-L501/E1/E201 S26361-F4044-L502/E2/E202	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
	*7	OS bundled + Storage Cluster	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	
	PY-FC341/PYBFC341/	EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	
	PYBFC341L PY-FC342/PYBFC342/	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	
	PYBFC342L S26361-F4043-L501/E1/E201 S26361-F4043-L502/E2/E202	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
	020001-1 +040-L002/L2/E202	OS bundled + Storage Cluster	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	
	PY-FC331/PYBFC331/	EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	
	PYBFC331L PY-FC332/PYBFC332/ PYBFC332L	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	
	\$26361-F5596-L501/E1/E201 \$26361-F5596-L502/E2/E202	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
	*7	OS bundled + Storage Cluster	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	
	PY-FC321/PY-FC322/	EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	
	S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	
	\$26361-F5580-E201 \$26361-F5580-L502 \$26361-F5580-E2	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
	S26361-F5580-E202  ETERNUS directly with link speed 8	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	

<sup>\*7</sup> When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

<sup>\*8</sup> Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*10</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Storage	<b>;</b>				C	luster		
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Oracle RAC /SEHA 18c/19c	CLUSTER Pro X	LifeKeeper v8 or later	Instruction for use
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	
	PY-FC221/PY-FC222/ S26361-F4994-L501/	EMPD + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	S26361-F4994-L502	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
		OS bundled + Storage Cluster	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
		EMPD		Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	
	PY-FCD12/ PYBFCD121/PYBFCD122 S26361-F4994-E402/	EMPD + Storage Cluster *8	Switch blade	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	S26361-F4994-L402 MC-FC162E	OS bundled	Owner blade	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
		OS bundled + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	PY-FC311/PY-FC312/	EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	
Windows Server 2019 (including Hyper-V)	S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201	EMPD + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
Windows Server IoT 2019 for Storage Standard	S26361-F5313-L502 S26361-F5313-E2	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
Ciorago Ciaridara	S26361-F5313-E202	OS bundled + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	PY-CN3A1/	EMPD		Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1	EMPD + Storage Cluster *8	FCoE switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	S26361-F5539-E201 S26361-F5539-L211	OS bundled	*10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	S26361-F5539-E211	OS bundled + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	PY-CN302/	EMPD		Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501	EMPD + Storage Cluster *8	FCoE switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211	OS bundled	*10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	S26361-F5302-E211	OS bundled + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	

<sup>\*4</sup> SAN boot is supported on 16Gbps Link Speed only.

\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*10</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Storage	e					Cluster			
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Oracle RAC /SEHA 19c	CLUSTER Pro X	LifeKeeper v8 or later	VCS 6.1	Instruction for use
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	
		EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	LIDA's driver version
	LPe36000 / LPe36002 or OEM products	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	HBA's driver version "14.0.326.17" or later is supported.
		OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	- Supportion
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	-	-	-	Planned 2	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	
	LD 05000 /LD 05000	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	
	LPe35000 / LPe35002 or OEM products *7	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
	·	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	-	-	-	Planned 2	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	
Windows Server 2019	LD-20000 /LD-20000	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	LIDAL, driver consists
(including Hyper-V) Windows Server IoT 2019 for	g Hyper-V) LPe32000 / LPe32002 or OEM products	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	HBA's driver version "11.2.1135.0" or later is supported.
Storage Standard	·	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	-	-	-	Planned 2	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	
	I D. 04000 / I D. 04000	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	
	LPe31000 / LPe31002 or OEM products *7	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
	·	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	-	-	-	Planned 2	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	
	Fuerdere	EMPD + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	
	Emulex LPe16000 / LPe16002 or OEM products	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
	2. 02 producto	OS bundled + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	
*3 FTERNUS supports SAN boot		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	-	-	-	Planned 2	

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<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

\*4 SAN boot is supported on 16Gbps Link Speed only.

\*7 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*10</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Storage	)					Cluster			
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Oracle RAC /SEHA 19c	CLUSTER Pro X	LifeKeeper v8 or later	VCS 6.1	Instruction for use
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	
	01 50070/01 50070/	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	
	QLE2870/QLE2872/ QLE2874 or OEM products	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
	or only products	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	-	-	-	Planned 2	
Windows Server 2019 (including Hyper-V) Windows Server IoT 2019 for		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	
	01 50770 (01 50770 (	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	
	QLE2770/QLE2772/ QLE2774 or OEM products	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
Storage Standard	or only products	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	-	-	-	Planned 2	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	
	01 505 10101 505 101	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	HBA's driver version
	QLE2740/QLE2742/ QLE2764 or OEM products	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2		"STOR Miniport 9.2.3.20" or later is
	o. Ozim producto	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	supported.
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	-	-	-	Planned 2	

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

\*4 SAN boot is supported on 16Gbps Link Speed only.

\*7 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*10</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Storage	<del></del>					Cluster			
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Oracle RAC /SEHA 19c	CLUSTER Pro X	LifeKeeper v8 or later	VCS 6.1	Instruction for use
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	
	QLE2690/	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	
	QLE2692/ QLE2694	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
	or OEM products	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	-	-	-	Planned 2	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	-	
	Qlogic	EMPD + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	
	QLE2660/QLE2662 QLE2670/QLE2672	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	-	
	or OEM products	OS bundled + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	
Windows Server 2019 (including Hyper-V)	/per-V) oT 2019 for	VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	-	-	-	Planned 2	
Windows Server IoT 2019 for Storage Standard		EMPD		Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	
		EMPD + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	
	Emulex OCe14401B or OEM products	OS bundled	FCoE switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	
	5. 52 p. 544600	OS bundled + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	
		VxVM		Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	-	-	-	Planned 2	
		EMPD		Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	
		EMPD + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	
	Emulex OCe14102 or OEM products	OS bundled	FCoE switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	
	5 5 2 p. 5 dd dd	OS bundled + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	
		VxVM		Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	-	-	-	Planned 2	

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

\*10 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Storag	e			Cluster	
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Instruction for use
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
	MC-0JFCF* MC-0JFCG*	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	
	*7	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
		OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
	MC-0JFCK*	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported HBA driver version is "STOR Miniport 9.2.3.20" or later.
	MC-0JFCL*	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
		OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
	MC-0JFCM* MC-0JFCN*	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported HBA driver version is "STOR Miniport 9.2.3.20" or later.
	*7	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported FIBA driver version is STON williport 9.2.3.20 or later.
		OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
Windows Server 2016 (including Hyper-V)	MC-0JFCP*	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	
*5	MC-0JFCQ*	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
		OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	
		EMPD	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
	MC-0JFC3*	EMPD + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
	MC-0JFC9*	OS bundled	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
		EMPD	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
	MC-0JFC4*	EMPD + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
	MC-0JFCA*	OS bundled	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
	MC-0JFC5*	OS bundled + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
		EMPD	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
		EMPD + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
	MC-0JFJ6*	OS bundled	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	

- \*3 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.
  \*4 SAN boot is supported on 16Gbps Link Speed only.
- \*5 Thin Provisioning function will be supported on DX8900 S4.
- \*7 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

  \*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".
- \*10 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Storage	<del></del>			Cluster	
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Instruction for use
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3*4	Supported	
	MC-0JFC7*	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3*4	Supported	
	MC-0JFC8*	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3*4	Supported	
		OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3*4	Supported	
		EMPD	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
Windows Server 2016 (including Hyper-V)	MC-0JFCB*	EMPD + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
*5	MC-0JFCC*	OS bundled	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
		EMPD	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
	MC-0JFCD*	EMPD + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
	MC-0JFCE*	OS bundled	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

\*4 SAN boot is supported on 16Gbps Link Speed only.

\*5 Thin Provisioning function will be supported on DX8900 S4.

\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

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<sup>\*10</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Storage	e				Cl	uster		
os	HBA	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Oracle RAC /SEHA 12c R2/18c/19c	CLUSTER Pro X 4.0 or later	LifeKeeper v8 or later	Instruction for use
	PY-FC441/PYBFC441/	EMPD *1	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Planned 2	
	PYBFC441L PY-FC442/PYBFC442/	EMPD *1 + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	HBA's driver version "14.0.326.17" or
	PYBFC442L	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Planned 2	later is supported.
	*7	OS bundled + Storage Cluster	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
	PY-FC421/PYBFC421/	EMPD *1	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Planned 2	
	PYBFC421L PY-FC422/PYBFC422/	EMPD *1 + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	HBA's driver version "14.0.326.17" or
	PYBFC422L	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Planned 2	later is supported.
	*7	OS bundled + Storage Cluster	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
	_,,,,,,,,	EMPD *1	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Planned 2	1
	PY-FC412/PYBFC412/ PYBFC412L	EMPD *1 + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	HBA's driver version "STOR Miniport
		OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Planned 2	9.4.3.21" or later is supported.
		OS bundled + Storage Cluster	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
Windows Server 2016		EMPD *1	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Planned 2	1
(including Hyper-V)	PYBFC351L PY-FC352/PYBFC352/	EMPD *1 + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	HBA's driver version "11.2.1135.0" or
Windows Storage Server 2016	PYBFC352L	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Planned 2	later is supported.
*5	S26361-F4044-L501/E1/E201 S26361-F4044-L502/E2/E202	OS bundled + Storage Cluster	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
	PY-FC341/PYBFC341/	EMPD *1	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Planned 2	1
	PYBFC341L PY-FC342/PYBFC342/	EMPD *1 + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	HBA's driver version "STOR Miniport
	PYBFC342L	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Planned 2	9.2.3.20" or later is supported.
	S26361-F4043-L501/E1/E201 S26361-F4043-L502/E2/E202	OS bundled + Storage Cluster	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
	PY-FC331/PYBFC331/	EMPD *1	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Planned 2	
	PYBFC331L PY-FC332/PYBFC332/	EMPD *1 + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
	PYBFC332L	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Planned 2	
	S26361-F5596-L501/E1/E201 S26361-F5596-L502/E2/E202	OS bundled + Storage Cluster	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
	PY-FC321/PY-FC322/	EMPD *1	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Planned 2	
	S26361-F5580-L501 S26361-F5580-E1	EMPD *1 + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Planned 2	Planned 2	Planned 2	
	\$26361-F5580-E201	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Planned 2	
	S26361-F5580-L502 S26361-F5580-E2	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	

<sup>\*1</sup> EMPD does not support Windows Storage Server 2016
\*3 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.
\*4 SAN boot is supported on 16Gbps Link Speed only.

<sup>\*5</sup> Thin Provisioning function will be supported on DX8900 S4.

\*7 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*10</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Storage	<b>;</b>				Cl	uster		
OS	HBA	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Oracle RAC /SEHA 12c R2/18c/19c	CLUSTER Pro X 4.0 or later	LifeKeeper v8 or later	Instruction for use
	PY-FC311/PY-FC312/	EMPD *1	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Planned 2	
	S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201	EMPD *1 + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
	S26361-F5313-L502 S26361-F5313-E2	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Planned 2	
	S26361-F5313-E202	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
		EMPD *1	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3*4	Supported	Supported	Supported	Planned 2	
	PY-FC221/PY-FC222/ S26361-F4994-L501/	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3*4	Supported	Supported	Planned 2	Planned 2	
Windows Storage Server 2016	S26361-F4994-L502	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3*4	Supported	Supported	Supported	Planned 2	
*5		OS bundled + Storage Cluster	via switch *10	Supported	Supported	Supported	Supported	Yes *3*4	Supported	Supported	Planned 2	Planned 2	
		EMPD *1		Supported	Supported	Supported	Supported	Yes *4	Supported	Supported	Supported	Planned 2	
	PY-FCD12/ PYBFCD121/PYBFCD122 S26361-F4994-E402/	EMPD *1 + Storage Cluster *8	Switch blade	Supported	Supported	Supported	Supported	Yes *4	Supported	Supported	Planned 2	Planned 2	
	S26361-F4994-L402 MC-FC162E	OS bundled	Switch blade	Supported	Supported	Supported	Supported	Yes *4	Supported	Supported	Supported	Planned 2	
		OS bundled + Storage Cluster		Supported	Supported	Supported	Supported	Yes *4	Supported	Supported	Planned 2	Planned 2	

<sup>\*1</sup> EMPD does not support Windows Storage Server 2016
\*3 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.
\*4 SAN boot is supported on 16Gbps Link Speed only.
\*5 Thin Provisioning function will be supported on DX8900 S4.
\*7 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.
\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*10</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Storage	)				Cl	uster		
OS	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Oracle RAC /SEHA 12c R2/18c	CLUSTER Pro X 4.0 or later	LifeKeeper v8 or later	Instruction for use
		EMPD *1	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Supported	Planned 2	
	PY-FC201/PY-FC202 PG-FC203/PG-FC204	EMPD *1 + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Planned 2	Planned 2	
	S26361-F3961-L1/ S26361-F3961-L2	OS bundled	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Supported	Planned 2	
		OS bundled + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Planned 2	Planned 2	
		EMPD *1		Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Supported	Planned 2	
	PY-FCD02 PG-FCD202	EMPD *1 + Storage Cluster *8	Switch blade/ Pass-through	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Planned 2	Planned 2	
	S26361-F3874-L1 MC-FC82E	OS bundled	blade	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Supported	Planned 2	
Windows Server 2016		OS bundled + Storage Cluster *8		Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Planned 2	Planned 2	
		EMPD *1	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Supported	Planned 2	
Windows Server 2016 (including Hyper-V)	PY-FC211/PY-FC212 PG-FC205/PG-FC206	EMPD *1 + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Planned 2	Planned 2	
Windows Storage Server 2016	S26361-F3631-L1/ S26361-F3631-L2	OS bundled	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Supported	Planned 2	
*5		OS bundled + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Planned 2	Planned 2	
	PY-CN3A1/	EMPD		Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	Planned 2	Planned 2	Planned 2	
	PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1	EMPD + Storage Cluster *8	FCoE switch	Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	Planned 2	Planned 2	Planned 2	
	S26361-F5539-E201 S26361-F5539-L211	OS bundled	*10	Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	Planned 2	Planned 2	Planned 2	
	S26361-F5539-E211	OS bundled + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	Planned 2	Planned 2	Planned 2	
	PY-CN302/ PYBCN302/PYBCN302L	EMPD		Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	Planned 2	Planned 2	Planned 2	
	PY-CN302U/PYBCN302U S26361-F5250-L501	EMPD + Storage Cluster *8	FCoE switch	Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	Planned 2	Planned 2	Planned 2	
	I 6	OS bundled	*10	Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	Planned 2	Planned 2	Planned 2	
*4 EMDD door not own out Windo	S26361-F5302-E211	OS bundled + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	Planned 2	Planned 2	Planned 2	

<sup>\*1</sup> EMPD does not support Windows Storage Server 2016
\*5 Thin Provisioning function will be supported on DX8900 S4.
\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*10</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Storage	9					Cluster			
OS	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Oracle RAC /SEHA 12c R2/18c	CLUSTER Pro X 4.0 or later	LifeKeeper v8 or later	VCS 6.1	Instruction for use
		EMPD *1	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Planned 2	-	
	LD 00000 /LD 00000	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Planned 2	Planned 2	-	LIDAL II.
	LPe36000 / LPe36002 or OEM products *7	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Planned 2	-	HBA's driver version "14.0.326.17" or later is supported.
	,	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Planned 2	Planned 2	-	зарропоч.
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	
		EMPD *1	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Planned 2	-	
	LD 05000 /LD 05000	EMPD *1 + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Planned 2	Planned 2	-	
	LPe35000 / LPe35002 or OEM products *7	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Planned 2	-	HBA's driver version "14.0.326.17" or later is supported.
Windows Server 2016 (including Hyper-V)  Windows Storage Server 2016  *5	·	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Planned 2	Planned 2	-	очрропоч.
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	
		EMPD *1	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Planned 2	-	
~5		EMPD *1 + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Planned 2	Planned 2	-	HBA's driver version
	QLE2870/QLE2872/ QLE2874 or OEM products	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Planned 2	-	"STOR Miniport 9.4.3.21" or later is
	or other products	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Planned 2	Planned 2	-	supported.
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	
		EMPD *1	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Planned 2	-	
	01 50550101 555501	EMPD *1 + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Planned 2	Planned 2	-	HBA's driver version
	QLE2770/QLE2772/ QLE2774 or OEM products	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Planned 2		"STOR Miniport 9.4.3.21" or later is
	C. OLIVI PIOGUOLO	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Planned 2	Planned 2	-	supported.
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	

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<sup>\*1</sup> EMPD does not support Windows Storage Server 2016
\*3 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.
\*4 SAN boot is supported on 16Gbps Link Speed only.
\*5 Thin Provisioning function will be supported on DX8900 S4.
\*7 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.
\*8 Please set "Split mode" of Storage Cluster Ologic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*10</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Storage	е					Cluster			
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Oracle RAC /SEHA 12c R2/18c	CLUSTER Pro X 4.0 or later	LifeKeeper v8 or later	VCS 6.1	Instruction for use
		EMPD *1	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Planned 2	-	
	I D. 20000 / I D. 20000	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3	Supported	Planned 2	Planned 2	Planned 2	-	LIDAIs deixamassissa
	LPe32000 / LPe32002 or OEM products *7	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Planned 2	-	HBA's driver version "11.2.1135.0" or later is supported.
	,	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Planned 2	Planned 2	-	зарронов.
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	
		EMPD *1	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Planned 2	-	
	LD 04000 /LD 04000	EMPD *1 + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3	Supported	Planned 2	Planned 2	Planned 2	-	
	LPe31000 / LPe31002 or OEM products *7	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Planned 2	-	
	·	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Planned 2	Planned 2	-	
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	
		EMPD *1	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Planned 2	-	
Windows Server 2016 (including Hyper-V)		EMPD *1 + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3	Supported	Planned 2	Planned 2	Planned 2	-	HBA's driver version
Windows Storage Server 2016	QLe2740/QLe2742/ QLe2764 or OEM products	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Planned 2		"STOR Miniport 9.2.3.20" or later is
*5	or ozim producto	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Planned 2	Planned 2	-	supported.
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	
		EMPD *1	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3 *4	Supported	Supported	Supported	Planned 2	-	
		EMPD *1 + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3 *4	Supported	Supported	Planned 2	Planned 2	-	
	Emulex LPe16000 / LPe16002 or OEM products	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3 *4	Supported	Supported	Supported	Planned 2	-	
	or Ocivi products	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3 *4	Supported	Supported	Planned 2	Planned 2	-	
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	
		EMPD *1	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Planned 2	-	
	OL F0000/	EMPD *1 + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3	Supported	Planned 2	Planned 2	Planned 2	-	
	QLE2690/ QLE2692/ QLE2694	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Planned 2	-	
	QLL200T	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Planned 2	Planned 2	-	
*1 EMPD does not support Windo		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	

<sup>\*1</sup> EMPD does not support Windows Storage Server 2016
\*3 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.
\*4 SAN boot is supported on 16Gbps Link Speed only.
\*5 Thin Provisioning function will be supported on DX8900 S4.

<sup>\*7</sup> When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection. \*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*10</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Storag	e					Cluster			
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Oracle RAC /SEHA 12c R2/18c	CLUSTER Pro X 4.0 or later	LifeKeeper v8 or later	VCS 6.1	Instruction for use
		EMPD *1	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Planned 2	-	
	Qlogic	EMPD *1 + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Planned 2	Planned 2	-	
	QLE2660/QLE2662 QLE2670/QLE2672	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Planned 2	-	
	or OEM products	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Planned 2	Planned 2	-	
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	
		EMPD *1	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Supported	Supported	Planned 2	-	
	Emulex	EMPD *1 + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Supported	Planned 2	Planned 2	-	
	LPe12000/LPe12002/ LPe1250	OS bundled	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Supported	Supported	Planned 2	-	
	or OEM products	OS bundled + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Supported	Planned 2	Planned 2	-	
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	
		EMPD *1	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Supported	Supported	Planned 2	-	
Windows Server 2016 (including Hyper-V)		EMPD *1 + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	*2	Supported	Supported	Planned 2	Planned 2	-	
Windows Storage Server 2016	QLogic QLE2560/QLE2562 or OEM products	OS bundled	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Supported	Supported	Planned 2	-	
*5	o. o i.m producto	OS bundled + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	*2	Supported	Supported	Planned 2	Planned 2	-	
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	
		EMPD		Planned 2	Planned 2	Planned 2	Planned 2	Yes *3	Planned 2	Planned 2	Planned 2	Planned 2	-	
		EMPD + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	*2	Planned 2	Planned 2	Planned 2	Planned 2	-	
	Emulex OCe14401B or OEM products	OS bundled	FCoE switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Yes *3	Planned 2	Planned 2	Planned 2	Planned 2	-	
	or o'Elw producto	OS bundled + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	*2	Planned 2	Planned 2	Planned 2	Planned 2	-	
		VxVM		Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	
		EMPD		Planned 2	Planned 2	Planned 2	Planned 2	Yes *3	Planned 2	Planned 2	Planned 2	Planned 2	-	
	Familia	EMPD + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	*2	Planned 2	Planned 2	Planned 2	Planned 2	-	
	Emulex OCe14102 or OEM products	OS bundled	FCoE switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Yes *3	Planned 2	Planned 2	Planned 2	Planned 2	-	
		OS bundled + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	*2	Planned 2	Planned 2	Planned 2	Planned 2	-	
*1 EMPD does not support Windo		VxVM		Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	

<sup>\*1</sup> EMPD does not support Windows Storage Server 2016

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<sup>\*2</sup> Please contact Fujitsu about SAN boot on Storage Cluster configuration.

\*3 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

\*5 Thin Provisioning function will be supported on DX8900 S4.

\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*10</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Storage	e			Cluster	
OS	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Instruction for use
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
	MC-0JFCF* MC-0JFCG*	EMPD + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	*7	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Planned 2	
		OS bundled + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
	MC-0JFCK*	EMPD + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	MC-0JFCL*	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Planned 2	
		OS bundled + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	MC-0JFCM*	EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
	MC-0JFCM* MC-0JFCN*	EMPD + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	*7	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Planned 2	
Windows Server 2012R2		OS bundled + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
(including Hyper-V)		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
	MC-0JFCP*	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Planned 2	Planned 2	
	MC-0JFCQ*	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Planned 2	
		OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Planned 2	
		EMPD	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
	MC-0JFC3*	EMPD + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
	MC-0JFC9*	OS bundled	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
		EMPD	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
	MC-0JFC4*	EMPD + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
	MC-0JFCA*	OS bundled	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	

<sup>\*7</sup> When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

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<sup>\*8</sup> Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

\*10 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Storage	•			Cluster	
OS	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Instruction for use
		EMPD	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
	MC-0JFC5*	EMPD + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
	MC-0JFC6*	OS bundled	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3*4	Supported	
	MC-0JFC8*	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3*4	Supported	
		OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3*4	Supported	
		OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3*4	Supported	
Windows Server 2012R2		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
(including Hyper-V)	MC-0JFCB*	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	
	MC-0JFCC*	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
		OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
	MC-0JFCD*	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	
	MC-0JFCE*	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
		OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	
		EMPD	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
	MC-0JFC11/MC-0JFC21	EMPD + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.
\*4 SAN boot is supported on 16Gbps Link Speed only.
\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*10</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Storag	е				C	Cluster		
os	HBA	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Oracle RAC 11g R2/12c R1	CLUSTER Pro X 3.2 (except DX8900 S4)	LifeKeeper v8 or later (except DX8900 S4)	Instruction for use
	PY-FC351/PYBFC351/	EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Supported	
	PYBFC351L PY-FC352/PYBFC352/ PYBFC352L	EMPD + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	Planned 2	Planned 2	Planned 2	
	S26361-F4044-L501/E1/E201 S26361-F4044-L502/E2/E202	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Supported	
	*7	OS bundled + Storage Cluster	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	Planned 2	Planned 2	Planned 2	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Supported	
	PY-FC341/PYBFC341/ PYBFC341L PY-FC342/PYBFC342/	EMPD + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	Planned 2	Planned 2	Planned 2	
	PYBFC342L S26361-F4043-L501/E1/E201 S26361-F4043-L502/E2/E202	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Supported	
		OS bundled + Storage Cluster	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	Planned 2	Planned 2	Planned 2	
	PY-FC331/PYBFC331/	EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Supported	
	PYBFC331L PY-FC332/PYBFC332/ PYBFC332L	EMPD + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	Planned 2	Planned 2	Planned 2	
	\$26361-F5596-L501/E1/E201 \$26361-F5596-L502/E2/E202	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Supported	
Windows Server 2012R2 (including Hyper-V)	^/	OS bundled + Storage Cluster	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	Planned 2	Planned 2	Planned 2	
Windows Storage Server 2012R2		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3*4	Supported	Supported	Supported	Supported	
	PY-FC221/PY-FC222/ S26361-F4994-L501/	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3*4	Supported	Supported	Supported	Supported	
	S26361-F4994-L502	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3*4	Supported	Supported	Supported	Supported	
		OS bundled + Storage Cluster	via switch *10	Supported	Supported	Supported	Supported	Yes *3*4	Supported	Supported	Supported	Supported	
		EMPD		Supported	Supported	Supported	Supported	Yes *4	Supported	Supported	Supported	Supported	
	PY-FCD12/ PYBFCD121/PYBFCD122	EMPD + Storage Cluster *8	- Switch blade	Supported	Supported	Supported	Supported	Yes *4	Supported	Supported	Supported	Supported	
	S26361-F4994-E402/ S26361-F4994-L402	OS bundled		Supported	Supported	Supported	Supported	Yes *4	Supported	Supported	Supported	Supported	
		OS bundled + Storage Cluster		Supported	Supported	Supported	Supported	Yes *4	Supported	Supported	Supported	Supported	
		EMPD	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Supported	Supported	
	PY-FC201/PY-FC202 PG-FC203/PG-FC204	EMPD + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Supported	Supported	
	S26361-F3961-L1/ S26361-F3961-L2	OS bundled	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Supported	Supported	
	t. but please ask server supplier if t	OS bundled + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Supported	Supported	

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*4</sup> SAN boot is supported on 16Gbps Link Speed only.

\*7 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*10</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Storag	e				C	Cluster		
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Oracle RAC 11g R2/12c R1	CLUSTER Pro X 3.2 (except DX8900 S4)	LifeKeeper v8 or later (except DX8900 S4)	Instruction for use
		EMPD		Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Supported	Supported	
	PY-FCD02 PG-FCD202	EMPD + Storage Cluster *8	Switch blade/ Pass-through	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Supported	Supported	
	S26361-F3874-L1	OS bundled	blade	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Supported	Supported	
		OS bundled + Storage Cluster *8		Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Supported	Supported	
	PY-FC321/PY-FC322/	EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Supported	
	S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Supported	
	S26361-F5580-L502 S26361-F5580-E2	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Supported	
Windows Server 2012R2 (including Hyper-V)	S26361-F5580-E202	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Supported	
Windows Storage Server 2012R2	PY-FC311/PY-FC312/	EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Supported	
	S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Supported	
	S26361-F5313-L502 S26361-F5313-E2	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Supported	
	S26361-F5313-E202	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Supported	
		EMPD	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Supported	Supported	
	PY-FC211/PY-FC212 PG-FC205/PG-FC206	EMPD + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Supported	Supported	
	S26361-F3631-L1/ S26361-F3631-L2	OS bundled	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Supported	Supported	
		OS bundled + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Supported	Supported	

		EMPD		Supported	Planned 2	Supported	Planned 2	Yes	Supported	Planned 2	Supported	Supported
		EMPD		Supported	Platitied 2	Supported	Platified 2	res	Supported	Platitieu 2	Supported	Supported
	PY-CN202 PG-292B	EMPD + Storage Cluster *8	FCoE switch	Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	Planned 2	Planned 2	Planned 2
	S26361-F3592-L2	OS bundled	*10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Planned 2	Supported	Supported
		OS bundled + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	Planned 2	Planned 2	Planned 2
	PY-CN3A1/	EMPD		Supported	Planned 2	Supported	Planned 2	Yes	Supported	Planned 2	Supported	Supported
Windows Server 2012R2 (including Hyper-V)	PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211 S26361-F5539-E211 S26361-F5539-E211  PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211 S26361-F5302-E211 S26361-F5302-E211 S26361-F5302-E211 S26361-F5302-E211 S26361-F5302-E211 S26361-F5302-E211	EMPD + Storage Cluster *8	FCoE switch	Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	Planned 2	Planned 2	Planned 2
Windows Storage Server 2012R2		OS bundled	*10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Planned 2	Supported	Supported
		OS bundled + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	Planned 2	Planned 2	Planned 2
		EMPD		Supported	Planned 2	Supported	Planned 2	Yes	Supported	Planned 2	Supported	Supported
		EMPD + Storage Cluster *8	FCoE switch	Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	Planned 2	Planned 2	Planned 2
		OS bundled	*10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Planned 2	Supported	Supported
		OS bundled + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	Planned 2	Planned 2	Planned 2

<sup>\*8</sup> Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*10</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Storage	•					Cluster			
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Oracle RAC 11g R2/12c R1	CLUSTER Pro X 3.2 (except DX8900 S4)	LifeKeeper v8 or later (except DX8900 S4)	VCS 6.1	Instruction for use
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Supported	-	
		EMPD + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Yes *3	Planned 2	Planned 2	Planned 2	Planned 2	-	
	LPe32000 / LPe32002 or OEM products *7	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Supported	-	
	·	OS bundled + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Yes *3	Planned 2	Planned 2	Planned 2	Planned 2	-	
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Supported	-	
		EMPD + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Yes *3	Planned 2	Planned 2	Planned 2	Planned 2	-	
	LPe31000 / LPe31002 or OEM products *7	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Supported	-	
	erver 2012R2 g Hyper-V) torage Server	OS bundled + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Yes *3	Planned 2	Planned 2	Planned 2	Planned 2	-	
Windows Server 2012R2 (including Hyper-V)		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	
Windows Storage Server 2012R2		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Supported	-	
		EMPD + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Yes *3	Planned 2	Planned 2	Planned 2	Planned 2	-	
	QLe2740/QLe2742/ QLe2764 or OEM products	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Supported	-	
	·	OS bundled + Storage Cluster *8	via switch *10	Planned 2	Planned 2	Planned 2	Planned 2	Yes *3	Planned 2	Planned 2	Planned 2	Planned 2	-	
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3 *4	Supported	Supported	Supported	Supported	-	
		EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3 *4	Supported	Supported	Supported	Supported	-	
	Emulex LPe16000 / LPe16002 or OEM products	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3 *4	Supported	Supported	Supported	Supported	-	
	,	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3 *4	Supported	Supported	Supported	Supported	-	
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*4</sup> SAN boot is supported on 16Gbps Link Speed only.

\*7 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*10</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Storage	)					Cluster			
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Oracle RAC 11g R2/12c R1	CLUSTER Pro X 3.2 (except DX8900 S4)	LifeKeeper v8 or later (except DX8900 S4)	VCS 6.1	Instruction for use
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Supported	-	
		EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Supported	-	
	QLE2690/ QLE2692/ QLE2694	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Supported	-	
		OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Supported	-	
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Supported	-	
	Qlogic	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Supported	-	
	QLE2660/QLE2662 QLE2670/QLE2672 or OEM products	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Supported	-	
	or OEM products	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Supported	-	
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	
	Brocade Brocade 1860 *6	EMPD	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Supported	Supported	Supported	-	
Windows Server 2012R2 (including Hyper-V)	or OEM products	OS bundled	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Supported	Supported	Supported	-	
Windows Storage Server 2012R2		EMPD	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Supported	Supported	Supported	-	
	Emulex	EMPD + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Supported	Supported	Supported	-	
	LPe12000/LPe12002/ LPe1250	OS bundled	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Supported	Supported	Supported	-	
	or OEM products	OS bundled + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Supported	Supported	Supported	-	
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	
		EMPD	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Supported	Supported	Supported	-	
		EMPD + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	*2	Supported	Supported	Supported	Supported	-	
	QLogic QLE2560/QLE2562 or OEM products	OS bundled	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Supported	Supported	Supported	-	
	or OEM products	OS bundled + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	*2	Supported	Supported	Supported	Supported	-	
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	
	Brocade Brocade 815/825	EMPD	via switch	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Supported	Supported	Supported	-	
*2 Please contact Fujitsu about S	or OEM products	OS bundled	via Switch	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Supported	Supported	Supported	-	

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<sup>\*2</sup> Please contact Fujitsu about SAN boot on Storage Cluster configuration.

\*3 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

\*6 Direct connection is supported only with 16Gbps CA.

\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*10</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Storage	e					Cluster			
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Oracle RAC 11g R2/12c R1	CLUSTER Pro X 3.2 (except DX8900 S4)	LifeKeeper v8 or later (except DX8900 S4)	VCS 6.1	Instruction for use
		EMPD		Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Planned 2	Supported	Supported	-	
		EMPD + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	*2	Planned 2	Planned 2	Planned 2	Planned 2	-	
	Emulex OCe10102 or OEM products	OS bundled	FCoE switch *10	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Planned 2	Supported	Supported	-	
	•	OS bundled + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	*2	Planned 2	Planned 2	Planned 2	Planned 2	-	
		VxVM		Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	
		EMPD		Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Planned 2	Supported	Supported	-	
		EMPD + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	*2	Planned 2	Planned 2	Planned 2	Planned 2	-	
Windows Server 2012R2	Emulex OCe14401B or OEM products	OS bundled	FCoE switch *10	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Planned 2	Supported	Supported	-	
(including Hyper-V) Windows Storage Server	ows Server 2012R2 or OEM products	OS bundled + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	*2	Planned 2	Planned 2	Planned 2	Planned 2	-	
		VxVM		Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	
		EMPD		Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Planned 2	Supported	Supported	-	
		EMPD + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	*2	Planned 2	Planned 2	Planned 2	Planned 2	-	
	Emulex OCe14102 or OEM products	OS bundled	FCoE switch *10	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Planned 2	Supported	Supported	-	
		OS bundled + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	*2	Planned 2	Planned 2	Planned 2	Planned 2	-	
		VxVM		Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	
	Brocade Brocade 415/425	EMPD	via switch	Supported	N.A.	Supported	N.A.	Yes *3	Supported	Supported	Supported	Supported	-	
	or OEM products	OS bundled	via Swittii	Supported	N.A.	Supported	N.A.	Yes *3	Supported	Supported	Supported	Supported	-	

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<sup>\*2</sup> Please contact Fujitsu about SAN boot on Storage Cluster configuration.

\*3 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*10</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Storage	e			Cluster	
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX8900 S4 (FC 16Gbps port)	DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Instruction for use
		EMPD	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
	MC-0JFC3*	EMPD + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	*2	Supported	
	MC-0JFC9*	OS bundled	Direct/via switch	Planned 1	Planned 2	Planned 1	Planned 2	Yes	Planned 1	
		OS bundled + Storage Cluster *8	via switch *10	Planned 1	Planned 2	Planned 1	Planned 2	*2	Planned 1	
		EMPD	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
	MC-0JFC4*	EMPD + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	*2	Supported	
	MC-0JFCA*	OS bundled	Direct/via switch	Planned 1	Planned 2	Planned 1	Planned 2	Yes	Planned 1	
		OS bundled + Storage Cluster *8	via switch *10	Planned 1	Planned 2	Planned 1	Planned 2	*2	Planned 1	
		EMPD	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
	MC-0JFC5*	EMPD + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	*2	Supported	
Windows Server 2012	MC-0JFJ6*	OS bundled	Direct/via switch	Planned 1	Planned 2	Planned 1	Planned 2	Yes	Planned 1	
(including Hyper-V)		OS bundled + Storage Cluster *8	via switch *10	Planned 1	Planned 2	Planned 1	Planned 2	*2	Planned 1	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
	MC-0JFC7*	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	*2	Supported	
	MC-0JFC8*	OS bundled	Direct/via switch	Planned 1	Planned 2	Planned 1	Planned 2	Yes	Planned 1	
		OS bundled + Storage Cluster *8	via switch *10	Planned 1	Planned 2	Planned 1	Planned 2	*2	Planned 1	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	
	MC-0JFCB*	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	*2	Supported	
	MC-0JFCC*	OS bundled	Direct/via switch	Planned 1	Planned 2	Planned 1	Planned 2	Yes	Planned 1	
		OS bundled + Storage Cluster *8	via switch *10	Planned 1	Planned 2	Planned 1	Planned 2	*2	Planned 1	
	MC-0JFC11/MC-0JFC21	EMPD	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	
	SAN boot on Storage Cluster conf	EMPD + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	*2	Supported	

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<sup>\*2</sup> Please contact Fujitsu about SAN boot on Storage Cluster configuration.
\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*10</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Storage	<b>)</b>				Cl	uster		
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX8900 S4 (FC 16Gbps port)	DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Oracle RAC 11g R2/12c R1	CLUSTER Pro X 3.1/3.2 (except DX8900 S4)	LifeKeeper v8 or later (except DX8900 S4)	Instruction for use
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3*4	Supported	Supported	Supported	Supported	
	PY-FC221/PY-FC222/	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	*2	Supported	Supported	Supported	Supported	
	S26361-F4994-L501/ S26361-F4994-L502	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3*4	Supported	Supported	Supported	Supported	
		OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	*2	Supported	Supported	Supported	Supported	
		EMPD		Supported	Supported	Supported	Supported	Yes *4	Supported	Supported	Supported	Supported	
	PY-FCD12/ PYBFCD121/PYBFCD122	EMPD + Storage Cluster *8	via aviitah blada	Supported	Supported	Supported	Supported	*2	Supported	Supported	Supported	Supported	
	S26361-F4994-E402/ S26361-F4994-L402	OS bundled	- via switch blade	Supported	Supported	Supported	Supported	Yes *4	Supported	Supported	Supported	Supported	
		OS bundled + Storage Cluster *8		Supported	Supported	Supported	Supported	*2	Supported	Supported	Supported	Supported	
		EMPD	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Supported	Supported	
Windows Server 2012 (including Hyper-V)	PY-FC201/PY-FC202 PG-FC203/PG-FC204	EMPD + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	*2	Supported	Supported	Supported	Supported	
Windows Storage Server 2012	S26361-F3961-L1/ S26361-F3961-L2	OS bundled	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Supported	Supported	
		OS bundled + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	*2	Supported	Supported	Supported	Supported	
		EMPD		Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Supported	Supported	
	PY-FCD02 PG-FCD202	EMPD + Storage Cluster *8	via switch blade/ Pass-through	Supported	Planned 2	Supported	Planned 2	*2	Supported	Supported	Supported	Supported	
	S26361-F3874-L1	OS bundled	blade	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Supported	Supported	
		OS bundled + Storage Cluster *8		Supported	Planned 2	Supported	Planned 2	*2	Supported	Supported	Supported	Supported	
	PY-FC321/PY-FC322/	EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Supported	
	S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	*2	Supported	Supported	Supported	Supported	
	S26361-F5580-L502 S26361-F5580-E2	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Supported	
	S26361-F5580-E202	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	*2	Supported	Supported	Supported	Supported	

<sup>\*2</sup> Please contact Fujitsu about SAN boot on Storage Cluster configuration.

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<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

\*4 SAN boot is supported on 16Gbps Link Speed only.

\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*10</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Storage	;				Cl	uster		
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX8900 S4 (FC 16Gbps port)	DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Oracle RAC 11g R2/12c R1	CLUSTER Pro X 3.1/3.2 (except DX8900 S4)	LifeKeeper v8 or later (except DX8900 S4)	Instruction for use
	PY-FC311/PY-FC312/	EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Supported	
	S26361-F5313-L501 S26361-F5313-E1	EMPD + Storage Cluster *8	r *8 via switch *10	Supported	Supported	Supported	Supported	*2	Supported	Supported	Supported	Supported	
	S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes	Supported	Supported	Supported	Supported	
	S26361-F5313-E202	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	*2	Supported	Supported	Supported	Supported	
		EMPD	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Supported	Supported	
	PY-FC211/PY-FC212 PG-FC205/PG-FC206	EMPD + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	*2	Supported	Supported	Supported	Supported	
	S26361-F3631-L1/ S26361-F3631-L2	OS bundled	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Supported	Supported	Supported	
		OS bundled + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	*2	Supported	Supported	Supported	Supported	
		EMPD		Supported	Planned 2	Supported	Planned 2	Yes	Supported	Planned 2	Supported	Supported	
Windows Server 2012 (including Hyper-V)	PY-CN202	EMPD + Storage Cluster *8	FCoE switch	Planned 2	Planned 2	Planned 2	Planned 2	*2	Planned 2	Planned 2	Planned 2	Planned 2	
Windows Storage Server 2012	PG-292B S26361-F3592-L2	OS bundled	*10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Planned 2	Supported	Supported	Instruction for use  Instruction for use
		OS bundled + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	*2	Planned 2	Planned 2	Planned 2	Planned 2	
	PY-CN3A1/	EMPD		Supported	Planned 2	Supported	Planned 2	Yes	Supported	Planned 2	Supported	Supported	
	PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1	EMPD + Storage Cluster *8	FCoE switch	Planned 2	Planned 2	Planned 2	Planned 2	*2	Planned 2	Planned 2	Planned 2	Planned 2	
	S26361-F5539-E201 S26361-F5539-L211	OS bundled	*10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Planned 2	Supported	Supported	
	S26361-F5539-E211	OS bundled + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	*2	Planned 2	Planned 2	Planned 2	Planned 2	
	PY-CN302/	EMPD		Supported	Planned 2	Supported	Planned 2	Yes	Supported	Planned 2	Supported	Supported	
	PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501	EMPD + Storage Cluster *8	FCoE switch	Planned 2	Planned 2	Planned 2	Planned 2	*2	Planned 2	Planned 2	Planned 2	Planned 2	
	S26361-F5250-E1 S26361-F5250-E201	OS bundled	*10	Supported	Planned 2	Supported	Planned 2	Yes	Supported	Planned 2	Supported	Supported	
	S26361-F5302-L211 S26361-F5302-E211	OS bundled + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	*2	Planned 2	Planned 2	Planned 2	Planned 2	

<sup>\*2</sup> Please contact Fujitsu about SAN boot on Storage Cluster configuration.

<sup>\*8</sup> Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*10</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Storage	)			Cluster						
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX8900 S4 (FC 16Gbps port)	DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Oracle RAC 11g R2/12c R1	CLUSTER Pro X 3.1/3.2 (except DX8900 S4)	LifeKeeper v8 or later (except DX8900 S4)	VCS 6.0/6.1	Instruction for use	
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3 *4	Supported	Supported	Supported	Supported	-		
		EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	*2	Supported	Supported	Supported	Supported	-		
	Emulex LPe16000 / LPe16002 or OEM products	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3 *4	Supported	Supported	Supported	Supported	-		
	·	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	*2	Supported	Supported	Supported	Supported	-		
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2		
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Supported	-		
		EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	*2	Supported	Supported	Supported	Supported	-		
Windows Server 2012	QLE2690/ QLE2692/ QLE2694	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Supported	-		
(including Hyper-V)		OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	*2	Supported	Supported	Supported	Supported	Supported -		
Windows Storage Server 2012		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2		
		EMPD	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Supported	-		
	Qlogic	EMPD + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	*2	Supported	Supported	Supported	Supported	-		
	QLE2660/QLE2662 QLE2670/QLE2672	OS bundled	Direct/via switch	Supported	Supported	Supported	Supported	Yes *3	Supported	Supported	Supported	Supported	-		
	or OEM products	OS bundled + Storage Cluster *8	via switch *10	Supported	Supported	Supported	Supported	*2	Supported	Supported	Supported	Supported	-		
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2		
	Brocade Brocade 1860 *6	EMPD	- Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Supported	Supported	Supported	-		
	Brocade 1860 *6 or OEM products	OS bundled	Directivia Switch	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Supported	Supported	Supported	-		

<sup>\*2</sup> Please contact Fujitsu about SAN boot on Storage Cluster configuration.

\*3 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

\*4 SAN boot is supported on 16Gbps Link Speed only.

\*6 Direct connection is supported only with 16Gbps CA.

\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*10</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Storage	Э					Cluster			
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX8900 S4 (FC 16Gbps port)	DX8900 S4 (FC 32Gbps port)	SAN boot	WSFC	Oracle RAC 11g R2/12c R1	CLUSTER Pro X 3.1/3.2 (except DX8900 S4)	LifeKeeper v8 or later (except DX8900 S4)	VCS 6.0/6.1	Instruction for use
		EMPD	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Supported	Supported	Supported	-	
	Emulex	EMPD + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	*2	Supported	Supported	Supported	Supported	-	
	LPe12000/LPe12002/ LPe1250	OS bundled	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Supported	Supported	Supported	-	
	or OEM products	OS bundled + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	*2	Supported	Supported	Supported	Supported	-	
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	
		EMPD	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Supported	Supported	Supported	-	
	QLogic	EMPD + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	*2	Supported	Supported	Supported	Supported	-	
	QLE2560/QLE2562 or OEM products	OS bundled	Direct/via switch	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Supported	Supported	Supported	-	
	·	OS bundled + Storage Cluster *8	via switch *10	Supported	Planned 2	Supported	Planned 2	*2	Supported	Supported	Supported	Supported	-	
		VxVM	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	
	Brocade	EMPD	, i a avvitala	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Supported	Supported	Supported	-	
	Brocade 815/825 or OEM products	OS bundled	via switch	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Supported	Supported	Supported	-	
		EMPD		Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Planned 2	Supported	Supported		
Windows Server 2012	Emulex	EMPD + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	*2	Planned 2	Planned 2	Planned 2	Planned 2	-	
(including Hyper-V)	OCe10102 or OEM products	OS bundled	FCoE switch *10	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Planned 2	Supported	Supported	-	
Windows Storage Server 2012	5. 5 ± p	OS bundled + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	*2	Planned 2	Planned 2	Planned 2	Planned 2	6 6 0 / 6 . 1  ed	
		VxVM		Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	
		EMPD		Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Planned 2	Supported	Supported	-	
	Emulex	EMPD + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	*2	Planned 2	Planned 2	Planned 2	Planned 2	-	
	OCe14401B or OEM products	OS bundled	FCoE switch *10	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Planned 2	Supported	Supported	-	
	5. 5 ± p	OS bundled + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	*2	Planned 2	Planned 2	Planned 2	Planned 2	-	
		VxVM		Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	
		EMPD		Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Planned 2	Supported	Supported	-	
	Emulex	EMPD + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	*2	Planned 2	Planned 2	Planned 2	Planned 2	-	
	OCe14102 or OEM products	OS bundled	FCoE switch *10	Supported	Planned 2	Supported	Planned 2	Yes *3	Supported	Planned 2	Supported	Supported	-	
	p	OS bundled + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	*2	Planned 2	Planned 2	Planned 2	Planned 2	-	
		VxVM		Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	Planned 2	
	Brocade Brocade 415/425	EMPD	- via switch	Supported	N.A.	Supported	N.A.	Yes *3	Supported	Supported	Supported	Supported	-	
	or OEM products	OS bundled	via switch	Supported	N.A.	Supported	N.A.	Yes *3	Supported	Supported	Supported	Supported	-	

- \*2 Please contact Fujitsu about SAN boot on Storage Cluster configuration.
  \*3 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.
  \*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".
- \*10 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

## Windows (iSCSI connection) Edition 183: 2023/12/22

## Notes

- Please contact the server supplier for the server support status of OS, multipath software, HBA and clusterware listed here.
- Please contact the product supplier for operating condition of multipath software and HBA listed here.
- Please use the latest version of HBA firmware and driver unless note is stated.
- Please use the latest version of server BIOS unless note is stated.
- Please contact the clusterware supplier for combination of Server, OS version, multipath software, HBA, and clusterware version.
- Direct connection with NIC/CNA of which speed is 25Gbps or more is not supported.
- Trademark symbols have been omitted from this document.
- HBA for PRIMEQUEST is shown as MC-0JCEn\*, the character "\*" can be any character applicable. Ex) MC-0JCE6\* means MC-0JCE61 and MC-0JCE62 are applicable.
- Storage Cluster function is not supported on DX60 S5/S4/S3.
- "Storage Space Direct function" using ETERNUS LUN is not supported.
- In this document, the following abbreviations are used;

**EMPD (ETERNUS Multipath Driver), WSFC (Windows Server Failover Clustering)** 

					Storage		Cluster																					
os	iSCSI Initiator type	NIC or HBA	Path Failover	Connected type	DX S5/S4/S3 series AF series/DX200F	iSCSI boot	WSFC	Instruction for use																				
			EMPD	Direct / via switch *3	Supported	No	Supported																					
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported	No	Supported																					
Windows Server 2022 (including Hyper-V)	Software	NIC for PRIMEQUEST 3000 NIC for PRIMEQUEST 4000 *1	NIC for PRIMEQUEST 4000	NIC for PRIMEQUEST 4000	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.																			
Windows Server IoT 2022 for Storage Standard	Initiator												·	· ·					i i			·	· ·		·	OS bundled	Direct / via switch *3	Supported
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported	No	Supported	*6, *7																				
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.																					

<sup>\*1</sup> Please contact server supplier about available NIC and CNA.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*6</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

<sup>\*7</sup> A Pass-through disk on Hyper-V is not supported.

					Storage				Cluster				
os	iSCSI Initiator type	NIC or HBA	Path Failover		DX S5/S4/S3 series AF series/DX200F	iSCSI boot	WSFC	Oracle RAC /SEHA 19c/21c	CLUSTER Pro X	LifeKeeper v8 or later	Instruction for use		
			EMPD	Direct / via switch *3	Supported	No	Supported	Planned 2	Planned 2	Planned 2			
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2			
	NIC and CNA for PRIMERGY	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.				
		*1	OS bundled	Direct / via switch *3	Supported	No	Supported	Supported	Planned 2	Planned 2			
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported	No	Supported	Supported	Planned 2	Planned 2	*6, *7		
Windows Server 2022 (including Hyper-V)	Software		OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.			
Windows Server IoT 2022 for Storage Standard	Initiator		EMPD	Direct / via switch *3	Supported	No	Supported	Planned 2	Planned 2	Planned 2			
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2			
		NIC / CNA	NIC / CNA	NIC / CNA	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
		*1	OS bundled	Direct / via switch *3	Supported	No	Supported	Supported	Planned 2	Planned 2			
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported	No	Supported	Supported	Planned 2	Planned 2	*6, *7		
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.			

<sup>\*1</sup> Please contact server supplier about available NIC and CNA.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*6</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

<sup>\*7</sup> A Pass-through disk on Hyper-V is not supported.

					Storage				Cluster			
os	iSCSI Initiator type	NIC or HBA	Path Failover	Connected type	DX S5/S4/S3 series AF series/DX200F	iSCSI boot	WSFC	Oracle RAC /SEHA 19c/21c	CLUSTER Pro X	LifeKeeper v8 or later	Instruction for use	
			EMPD	Direct / via switch *3	Supported	No	Supported	Planned 2	Planned 2	Planned 2		
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
		NIC for PRIMEQUEST 3000 *1	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
			*1	*1	OS bundled	Direct / via switch *3	Supported	No	Supported	Supported	Planned 2	Planned 2
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported	No	Supported	Supported	Planned 2	Planned 2	*6, *7	
Windows Server 2019	Software		OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
(including Hyper-V)	Initiator		EMPD	Direct / via switch *3	Supported	No	Supported	Planned 2	Planned 2	Planned 2		
		NIC for PRIMEQUEST 2000	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
			NIC for PRIMEQUEST 2000	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
		*1	OS bundled	Direct / via switch *3	Supported	No	Supported	Supported	Planned 2	Planned 2		
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported	No	Supported	Supported	Planned 2	Planned 2	*6, *7	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		

<sup>\*1</sup> Please contact server supplier about available NIC and CNA.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*6</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

<sup>\*7</sup> A Pass-through disk on Hyper-V is not supported.

					Storage				Cluster			
OS	iSCSI Initiator type	NIC or HBA	Path Failover		DX S5/S4/S3 series AF series/DX200F	iSCSI boot	WSFC	Oracle RAC /SEHA 19c/21c	CLUSTER Pro X	LifeKeeper v8 or later	Instruction for use	
			EMPD	Direct / via switch *3	Supported	No	Supported	Planned 2	Planned 2	Planned 2		
		NIC and CNA for PRIMERGY *1	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
	Software		EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
	Initiator		OS bundled	Direct / via switch *3	Supported	No	Supported	Supported	Planned 2	Planned 2		
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported	No	Supported	Supported	Planned 2	Planned 2	*6, *7	
Windows Server 2019 (including Hyper-V)			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
Windows Server IoT 2019 for Storage Standard			EMPD	Direct / via switch *3	Supported	No	Supported	Planned 2	Planned 2	Planned 2		
				EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
	Software				EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2
	Initiator	*1	OS bundled	Direct / via switch *3	Supported	No	Supported	Supported	Planned 2	Planned 2		
				OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported	No	Supported	Supported	Planned 2	Planned 2	*6, *7
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		

<sup>\*1</sup> Please contact server supplier about available NIC and CNA.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*6</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

<sup>\*7</sup> A Pass-through disk on Hyper-V is not supported.

	iSCSI				Storage				Cluster			
os	Initiator type	NIC or HBA	Path Failover	Connected type	DX S5/S4/S3 series AF series/DX200F	iSCSI boot	WSFC	Oracle RAC /SEHA 19c	CLUSTER Pro X	LifeKeeper v8 or later	Instruction for use	
			EMPD	Direct / via switch *3	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
		PY-CN3A1/	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
		PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
		S26361-F5539-E201 S26361-F5539-L211	OS bundled	Direct / via switch *3	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
		S26361-F5539-E211	OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Instruction for use	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
			EMPD	Direct / via switch *3	Planned 2	Yes	Planned 2	Planned 2	Planned 2	Planned 2		
		PY-CN302/ PYBCN302/PYBCN302L	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
		PY-CN302U/PYBCN302U S26361-F5250-L501	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
		S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211	OS bundled	Direct / via switch *3	Planned 2	Yes	Planned 2	Planned 2	Planned 2	Planned 2		
		S26361-F5302-E211	OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
		PY-CND02 S26361-F3592-L532	EMPD	- switch blade	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2		
Windows Server 2019 (including Hyper-V)	Hardware	BX92xS3 Onboard CNA	OS bundled	Switch blade	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2		
Windows Server IoT 2019 for Storage Standard	Initiator		EMPD	Direct / via switch *3	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
		Emulex	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
		OCe14401B	OS bundled	Direct / via switch *3	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
			EMPD	Direct / via switch *3	Planned 2	Yes *2	Planned 2	Planned 2	Planned 2	Planned 2		
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
		Emulex	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
		OCe14102	OS bundled	Direct / via switch *3	Planned 2	Yes *2	Planned 2	Planned 2	Planned 2	Planned 2		
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
		Emulex	EMPD	Direct / via switch *3	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2		
		OCe11102	OS bundled	Direct / 70/280 Vla switch *3	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Oopyright 2023 FUJITSU L	

- \*2 ETERNUS supports iSCSI boot, but please ask server supplier if the connected server supports iSCSI boot.
- \*3 When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

					Storage				Cluster														
os	iSCSI Initiator type	NIC or HBA	Path Failover		DX S5/S4/S3 series AF series/DX200F	iSCSI boot	WSFC	Oracle RAC /SEHA	CLUSTER Pro X	LifeKeeper v8 or later	Instruction for use												
			EMPD	Direct / via switch *3	Supported	No	Supported	Supported	Supported	Planned 2													
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2													
		NIC for PRIMEQUEST 3000	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2													
		*1	OS bundled	Direct / via switch *3	Supported	Supported No Supported Supported Supported Planned 2																	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2													
Windows Server 2016	Software		OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2													
(including Hyper-V)	Initiator		EMPD	Direct / via switch *3	Supported	No	Supported	Supported	Supported	Planned 2													
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2													
		NIC for PRIMEQUEST 2000	NIC for PRIMEQUEST 2000	NIC for PRIMEQUEST 2000	NIC for PRIMEQUEST 2000	NIC for PRIMEQUEST 2000	NIC for PRIMEQUEST 2000	NIC for PRIMEQUEST 2000			NIC for PRIMEQUEST 2000	NIC for PRIMEQUEST 2000	NIC for PRIMEQUEST 2000	NIC for PRIMEQUEST 2000	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
		*1	OS bundled	Direct / via switch *3	Supported	No	Supported	Supported	Supported	Planned 2													
										(,	(A	( <i>F</i>	OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2			
	out available NIC and CNA	OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2														

<sup>\*1</sup> Please contact server supplier about available NIC and CNA.

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<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.
\*8 EMPD does not support Windows Storage Server 2016

					Storage				Cluster		
OS	iSCSI Initiator type	NIC or HBA	Path Failover	Connected type	DX S5/S4/S3 series AF series/DX200F	iSCSI boot	WSFC	Oracle RAC /SEHA 12c R2/18c/19c	CLUSTER Pro X 4.0 or later	LifeKeeper v8 or later	Instruction for use
			EMPD *8	Direct / via switch *3	Supported	No	Supported	Supported	Supported	Planned 2	
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
	Software	NIC and CNA for PRIMERGY	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
	Initiator	*1	OS bundled	Direct / via switch *3	Supported	No	Supported	Supported	Supported	Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
			EMPD	Direct / via switch *3	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
		PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
Windows Server 2016 (including Hyper-V)			S26361-F5539-E201	OS bundled	Direct / via switch *3	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2
Windows Storage Server 2016		S26361-F5539-E211	OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
	Hardware		EMPD	Direct / via switch *3	Planned 2	Yes	Planned 2	Planned 2	Planned 2	Planned 2	
	Initiator	PY-CN302/ PYBCN302/PYBCN302L	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
		PY-CN302U/PYBCN302U S26361-F5250-L501	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
		S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211	OS bundled	Direct / via switch *3	Planned 2	Yes	Planned 2	Planned 2	Planned 2	Planned 2	
		S26361-F5302-E211	OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
		PY-CND02 S26361-F3592-L532	EMPD	- switch blade	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
		BX92xS3 Onboard CNA	OS bundled		Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	

<sup>\*1</sup> Please contact server supplier about available NIC and CNA.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*8</sup> EMPD does not support Windows Storage Server 2016

					Storage				Cluster			
OS	iSCSI Initiator type	NIC or HBA	Path Failover	Connected type	DX S5/S4/S3 series AF series/DX200F	iSCSI boot	WSFC	Oracle RAC /SEHA 12c R2/18c/19c	CLUSTER Pro X 4.0 or later	LifeKeeper v8 or later	Instruction for use	
			EMPD *8	Direct / via switch *3	Supported	No	Supported	Supported	Supported	Planned 2		
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
	Software	Intel NIC / CNA	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
	Initiator	*1	OS bundled	Direct / via switch *3	Supported	No	Supported	Supported	Supported	Planned 2		
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
			EMPD	Direct / via switch *3	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
		Emulex OCe14401B	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
Windows Server 2016 (including Hyper-V)			OCe14401B	OS bundled	Direct / via switch *3	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
Windows Storage Server 2016				OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
	Hardware		EMPD	Direct / via switch *3	Planned 2	Yes *2	Planned 2	Planned 2	Planned 2	Planned 2		
	Initiator		EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
		Emulex	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
		OCe14102	OS bundled	Direct / via switch *3	Planned 2	Yes *2	Planned 2	Planned 2	Planned 2	Planned 2		
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
		Emulex	EMPD	Direct / via switch *3	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2		
		OCe11102	OS bundled	Direct / via switch *3	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2		

<sup>\*1</sup> Please contact server supplier about available NIC and CNA.
\*2 ETERNUS supports iSCSI boot, but please ask server supplier if the connected server supports iSCSI boot.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*8</sup> EMPD does not support Windows Storage Server 2016

					Storage				Cluster		
os	iSCSI Initiator type	NIC or HBA	Path Failover	Connected type	DX S5/S4/S3 series AF series/DX200F	iSCSI boot	WSFC	Oracle RAC 11g R2/12c R1	CLUSTER Pro X 3.1/3.2 (except DX8900 S4)	LifeKeeper v8 or later (except DX8900 S4)	Instruction for use
			EMPD	Direct / via switch *3	Supported	No	Supported	Supported	Supported	Supported *5	
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	*6
		NIC and CNA for PRIMERGY	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	*6, *7
		*1	OS bundled	Direct / via switch *3	Supported	No	Supported	Supported	Supported	Supported *5	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	*6
Windows Server 2012R2			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	*6, *7
(including Hyper-V) Windows Storage Server 2012R2	Software Initiator		EMPD	Direct / via switch *3	Supported	No	Supported	Supported	Supported	Supported *5	
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	
		NIC for PRIMEQUEST 3000	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	
		NIC for PRIMEQUEST 2000 *1	OS bundled	Direct / via switch	Supported	No	Supported	Supported	Supported	Supported *5	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	*6
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	*6, *7
		NIC for PRIMEQUEST 1000 *1	EMPD	Direct / via switch *3	Supported	No	Supported	-	-	-	

<sup>\*1</sup> Please contact server supplier about available NIC and CNA.

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<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used. 
\*5 ETERNUS's 10GBASE-T interface connection is not supported.

\*6 At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

<sup>\*7</sup> A Pass-through disk on Hyper-V is not supported.

					Storage				Cluster			
os	iSCSI Initiator type	NIC or HBA	Path Failover	Connected type	DX S5/S4/S3 series AF series/DX200F	iSCSI boot	WSFC	Oracle RAC 11g R2/12c R1	CLUSTER Pro X 3.1/3.2	LifeKeeper v8 or later	Instruction for use	
			EMPD	Direct / via switch *3	Supported	No	Supported	Supported	Planned 2	Planned 2		
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	*6	
		PY-CN202 PG-292B	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	*6, *7	
		PG-CND201 S26361-F3592-L2	OS bundled	Direct / via switch *3	Supported	No	Supported	Supported	Planned 2	Planned 2		
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	*6	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	*6, *7	
			EMPD	Direct / via switch *3	Supported	Yes	Supported	Supported	Planned 2	Planned 2		
		PY-CN3A1/	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
		PYBCN3A1/PYBCN3A1L \$26361-F5539-L501 \$26361-F5539-E1 \$26361-F5539-E201 \$26361-F5539-L211 \$26361-F5539-E211	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
			OS bundled	Direct / via switch *3	Supported	Yes	Supported	Supported	Planned 2	Planned 2		
		S26361-F5539-E211	OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
Windows Server 2012R2 (including Hyper-V)	Hardware		OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
Windows Storage Server 2012R2	Initiator	PY-CN302/		EMPD	Direct / via switch *3	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	*6	
		PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	*6, *7	
		S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211	OS bundled	Direct / via switch *3	Supported	Yes	Supported	Supported	Planned 2	Planned 2		
		S26361-F5302-E211	OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	*6	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	*6, *7	
		PY-CND02 S26361-F3592-L532	EMPD	switch blade	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2		
		BX92xS3 Onboard CNA	OS bundled	owner blade	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2		
			EMPD	Direct / via switch *3	Supported	Yes	Supported	Supported	Planned 2	Planned 2		
		MC-0JCE6*	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	*6	
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	*6, *7	
		er supplier if the connected serv	OS bundled	Direct / via switch	Supported	Yes *2	Supported	Supported	Planned 2	Planned 2		

<sup>\*2</sup> ETERNUS supports iSCSI boot, but please ask server supplier if the connected server supports iSCSI boot.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*6</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

<sup>\*7</sup> A Pass-through disk on Hyper-V is not supported.

					Storage				Cluster			
os	iSCSI Initiator type	NIC or HBA	Path Failover	Connected type	DX S5/S4/S3 series AF series/DX200F	iSCSI boot	WSFC	Oracle RAC 11g R2/12c R1	CLUSTER Pro X 3.1/3.2 (except DX8900 S4)	LifeKeeper v8 or later (except DX8900 S4)	Instruction for use	
			EMPD	Direct / via switch *3	Supported	No	Supported	Supported	Supported	Supported *5		
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	*6	
	Software	Intel NIC / CNA	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	*6, *7	
	Initiator	*1	OS bundled	Direct / via switch *3	Supported	No	Supported	Supported	Supported	Supported *5		
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	*6	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	*6, *7	
			EMPD	Direct / via switch *3	Supported	No	Supported	Supported	Planned 2	Planned 2		
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	*6	
		Emulex	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	*6, *7	
		OCe10102	OS bundled	Direct / via switch *3	Supported	No	Supported	Supported	Planned 2	Planned 2		
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	*6	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	*6, *7	
Windows Server 2012R2 (including Hyper-V)		Emulex	EMPD	Direct / via switch *3	Supported	Yes *2	Supported	Supported	Planned 2	Planned 2		
Windows Storage Server 2012R2				EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
	Hardware	OCe14401B	OS bundled	Direct / via switch *3	Supported	Yes *2	Supported	Supported	Planned 2	Planned 2		
	Initiator		OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		
			EMPD	Direct / via switch *3	Supported	Yes *2	Supported	Supported	Planned 2	Planned 2		
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	*6	
		Emulex	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	*6, *7	
		OCe14102	OS bundled	Direct / via switch *3	Supported	Yes *2	Supported	Supported	Planned 2	Planned 2		
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	*6	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Supported	No	Supported	Planned 2	Planned 2	Planned 2	*6, *7	
		Emulex	EMPD	Direct / via switch *3	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2		
*1 Please contact server supplier abou		OCe11102	OS bundled	Direct / via switch *3	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2		

<sup>\*1</sup> Please contact server supplier about available NIC and CNA.

\*2 ETERNUS supports iSCSI boot, but please ask server supplier if the connected server supports iSCSI boot.

\*3 When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

\*5 ETERNUS's 10GBASE-T interface connection is not supported.

<sup>\*6</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

<sup>\*7</sup> A Pass-through disk on Hyper-V is not supported.

					Storage				Cluster		
OS	iSCSI Initiator type	NIC or HBA	Path Failover	Connected type	DX S4/S3 series AF series/DX200F (except AF S3 series)	iSCSI boot	WSFC	Oracle RAC 11g R2/12c R1	CLUSTER Pro X 3.1/3.2 (except DX8900 S4)	LifeKeeper v8 or later (except DX8900 S4)	Instruction for use
			EMPD	Direct / via switch *3	Supported	No	Supported	Supported	Supported	Supported *5	
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
		NIC and CNA for PRIMERGY	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
		*1	OS bundled	Direct / via switch *3	Supported	No	Supported	Supported	Supported	Supported *5	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
	Software		OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
	Initiator		EMPD	Direct / via switch *3	Supported	No	Supported	N.A.	N.A.	N.A.	
		NIC for PRIMEQUEST 2000 *1	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	N.A.	N.A.	N.A.	
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	N.A.	N.A.	N.A.	
Windows Server 2012 (including Hyper-V)			EMPD	Direct / via switch *3	Supported	No	Supported	N.A.	N.A.	N.A.	
Windows Storage Server 2012		NIC for PRIMEQUEST 1000 *1	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	N.A.	N.A.	N.A.	
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	N.A.	N.A.	N.A.	
		PY-CN202 PG-292B	EMPD	Direct / via switch *3	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
		PG-CND201 S26361-F3592-L2	OS bundled	Direct / via switch *3	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
		PY-CND02 S26361-F3592-L532	EMPD	switch blade	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	Hardware	BX92xS3 Onboard CNA	OS bundled	Switch blade	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	Initiator		EMPD	Direct / via switch *3	Supported	Yes	Supported	-	-	-	
		MC-0JCE6*	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	-	-	-	
		IVIO-UJCEO	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	-	-	-	
			OS bundled	Direct / via switch	Planned 1	Yes *2	Planned 1	-	-	-	

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<sup>\*1</sup> Please contact server supplier about available NIC and CNA.
\*2 ETERNUS supports iSCSI boot, but please ask server supplier if the connected server supports iSCSI boot.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used. \*5 ETERNUS's 10GBASE-T interface connection is not supported.

					Storage				Cluster		
os	iSCSI Initiator type	NIC or HBA	Path Failover	Connected type	DX S4/S3 series AF series/DX200F (except AF S3 series)	iSCSI boot	WSFC	Oracle RAC 11g R2/12c R1	CLUSTER Pro X 3.1/3.2 (except DX8900 S4)	LifeKeeper v8 or later (except DX8900 S4)	Instruction for use
			EMPD	Direct / via switch *3	Supported	No	Supported	Supported	Supported	Supported *5	
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
	Software	Intel NIC / CNA	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
	Initiator	*1	OS bundled	Direct / via switch *3	Supported	No	Supported	Supported	Supported	Supported *5	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
Windows Server 2012 (including Hyper-V)			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
Windows Storage Server 2012		Emulex OCe10102	EMPD	Direct / via switch *3	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
			OS bundled	Direct / via switch *3	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	Hardware		EMPD	Direct / via switch *3	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	Initiator	OCe14102	OS bundled	Direct / via switch *3	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
		Emulex	EMPD	Direct / via switch *3	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
		OCe11102	OS bundled	Direct / via switch *3	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	

<sup>\*1</sup> Please contact server supplier about available NIC and CNA.

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<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used. \*5 ETERNUS's 10GBASE-T interface connection is not supported.

## Windows (SAS connection) Edition 183: 2023/12/22

## Notes

- Please contact the server supplier for the server support status of OS, multipath software, HBA and clusterware listed here.
- Please contact the product supplier for operating condition of multipath software and HBA listed here.
- Please use the latest version of HBA firmware and driver unless note is stated.
- Please use the latest version of server BIOS unless note is stated.
- Please contact the server supplier for connection availability of HBA and FC switch.
- Please contact the clusterware supplier for combination of Server, OS version, multipath software, HBA, and clusterware version.
- Trademark symbols have been omitted from this document.
- "Storage Space Direct function" using ETERNUS LUN is not supported.
- In this document, the following abbreviations are used;

EMPD (ETERNUS Multipath Driver), WSFC (Windows Server Failover Clustering)

				Sto	rage			Clu	ster		
os	НВА	Path Failover	Connected type	DX60 S4/S3 DX100 S3 DX200 S3 (SAS 6Gbps port)	DX60 S5/S4 DX100 S5/S4 DX200 S5/S4 (SAS 12Gbps port)	SAS boot	WSFC	Oracle RAC /SEHA 19c/21c	CLUSTER Pro X	LifeKeeper v8 or later	Instruction for use
	PY-SC4FAE/	EMPD	Direct	Planned 2	Supported	No	Planned 2	Planned 2	Planned 2	Planned 2	
	PYBSC4FAE/PYBSC4FAEL	OS bundled	Direct	Planned 2	Supported	No	Planned 2	Supported	Planned 2	Planned 2	
	PY-SC3FBF/PYBSC3FBF/	EMPD	Direct	Planned 2	Supported	No	Planned 2	Planned 2	Planned 2	Planned 2	
	PYBSC3FBFL S26361-F5793-E251	OS bundled	Direct	Planned 2	Supported	No	Planned 2	Supported	Planned 2	Planned 2	
	PY-SC3FBE/PYBSC3FBE/ PYBSC3FBEL	EMPD	- Direct	Planned 2	Supported	No	Planned 2	Planned 2	Planned 2	Planned 2	
		OS bundled		Planned 2	Supported	No	Planned 2	Supported	Planned 2	Planned 2	
Windows Server 2022 (including Hyper-V)	PY-SC3FE/PYBSC3FE/ PYBSC3FEL S26361-F3845-L501/ S26361-F3845-E1/ S26361-F3845-E201	EMPD	Divert	Planned 2	Supported	No	Planned 2	Planned 2	Planned 2	Planned 2	
Windows Server IoT 2022 for Storage Standard		OS bundled	Direct	Planned 2	Supported	No	Planned 2	Supported	Planned 2	Planned 2	
	LSI SAS9500-16e	EMPD	Direct	Planned 2	Supported	No	Planned 2	Planned 2	Planned 2	Planned 2	
	LSI SAS9300-10e	OS bundled	Direct	Planned 2	Supported	No	Planned 2	Supported	Planned 2	Planned 2	
	L CL CA CO 400 0 o	EMPD	Direct	Planned 2	Supported	No	Planned 2	Planned 2	Planned 2	Planned 2	
	LSI SAS9400-8e	OS bundled	Direct	Planned 2	Supported	No	Planned 2	Supported	Planned 2	Planned 2	
	LSI SAS9300-8e	EMPD	Direct -	Planned 2	Supported	No	Planned 2	Planned 2	Planned 2	Planned 2	
		OS bundled		Planned 2 89/299	Supported	No	Planned 2	Supported	Planned 2	Planned 2	<del>¢ 2023 FUJITSU LIMI</del> TE

				Sto	rage			Clu	ıster		
os	НВА	Path Failover	Connected type	DX60 S4/S3 DX100 S3 DX200 S3 (SAS 6Gbps port)	DX60 S5/S4 DX100 S5/S4 DX200 S5/S4 (SAS 12Gbps port)	SAS boot	WSFC	Oracle RAC /SEHA 18c/19c	CLUSTER Pro X	LifeKeeper v8 or later	Instruction for use
	PY-SC4FAE/	EMPD	Direct	Planned 2	Supported	No	Supported	Planned 2	Planned 2	Planned 2	
	PYBSC4FAE/PYBSC4FAEL	OS bundled	Direct	Planned 2	Supported	No	Supported	Supported	Planned 2	Planned 2	
	PY-SC3FBF/PYBSC3FBF/	EMPD	Direct	Planned 2	Supported	No	Supported	Planned 2	Planned 2	Planned 2	
Windows Server 2019 (including Hyper-V)	PYBSC3FBFL	OS bundled	Direct	Planned 2	Supported	No	Supported	Supported	Planned 2	Planned 2	
	PY-SC3FBE/PYBSC3FBE/ PYBSC3FBEL	EMPD	- Direct	Planned 2	Supported	No	Supported	Planned 2	Planned 2	Planned 2	
		OS bundled		Planned 2	Supported	No	Supported	Supported	Planned 2	Planned 2	
Windows Server IoT 2019 for Storage Standard	PY-SC3FE/PYBSC3FE/ PYBSC3FEL S26361-F3845-L501/	EMPD	Direct	Planned 2	Supported	No	Supported	Planned 2	Planned 2	Planned 2	
	S26361-F3845-E1/ S26361-F3845-E201	OS bundled	Direct	Planned 2	Supported	No	Supported	Supported	Planned 2	Planned 2	
	PY-SC2Z0/PYBSC2Z0 S26361-F3628-L501/	EMPD	Direct	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
	S26361-F3628-E1	OS bundled	Direct	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
	PY-SCD08/PYBSCD082 S26361-F4480-L1/ S26361-F4480-E1	EMPD	Switch blade/	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
		OS bundled Pass-through blade	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2		

				Sto	rage			Clu	ster		
os	НВА	Path Failover	Connected type	DX60 S4/S3 DX100 S3 DX200 S3 (SAS 6Gbps port)	DX60 S5/S4 DX100 S5/S4 DX200 S5/S4 (SAS 12Gbps port)	SAS boot	WSFC	Oracle RAC /SEHA 18c/19c	CLUSTER Pro X	LifeKeeper v8 or later	Instruction for use
	LSI SAS9500-16e	EMPD	Direct	Planned 2	Supported	No	Supported	Planned 2	Planned 2	Planned 2	
	LSI 3A39300-10e	OS bundled	Direct	Planned 2	Supported	No	Supported	Supported	Planned 2	Planned 2	
	LSI SAS9400-8e	EMPD	Direct	Planned 2	Supported	No	Supported	Planned 2	Planned 2	Planned 2	
Windows Server 2019 (including Hyper-V)	LSI 3A39400-0E	OS bundled	Direct	Planned 2	Supported	No	Supported	Supported	Planned 2	Planned 2	
Windows Server IoT 2019 for Storage Standard	1 21 2 4 2 0 2 0 0 0 0	EMPD	Direct	Planned 2	Supported	No	Supported	Planned 2	Planned 2	Planned 2	
Standard	LSI SAS9300-8e	OS bundled	Direct	Planned 2	Supported	No	Supported	Supported	Planned 2	Planned 2	
	1 21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	EMPD	Di t	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	
	LSI SAS9200-8e	OS bundled Direct	Planned 2	Planned 2	- No	Planned 2	Planned 2	Planned 2	Planned 2		

				Sto	rage			Clu	ıster		
os	НВА	Path Failover	Connected type	DX60 S4/S3 DX100 S3 DX200 S3 (SAS 6Gbps port)	DX60 S5/S4 DX100 S5/S4 DX200 S5/S4 (SAS 12Gbps port)	SAS boot	WSFC	Oracle RAC /SEHA 18c/19c	CLUSTER Pro X	LifeKeeper v8 or later	Instruction for use
	PY-SC4FAE/	EMPD	Divert	Planned 2	Supported	No	Supported	Supported	Planned 2	Planned 2	HBA's driver version
	PYBSC4FAE/PYBSC4FAEL	OS bundled	- Direct	Planned 2	Supported	No	Supported	Supported	Planned 2	Planned 2	"2.61.41.00" or later is supported.
	PY-SC3FBF/PYBSC3FBF/	EMPD *3	Direct	Planned 2	Supported	No	Supported	Supported	Planned 2	Planned 2	
	PYBSC3FBFL	OS bundled	- Dilect	Planned 2	Supported	No	Supported	Supported	Planned 2	Planned 2	
	PY-SC3FBE/PYBSC3FBE/	EMPD *3	- Direct	Planned 2	Supported	No	Supported	Supported	Planned 2	Planned 2	
	PYBSC3FBEL	OS bundled	Direct	Planned 2	Supported	No	Supported	Supported	Planned 2	Planned 2	
	PY-SC3FE/PYBSC3FE/ PYBSC3FEL S26361-F3845-L501/	EMPD *3	- Direct	Supported	Supported	No	Supported	Supported	Planned 2	Planned 2	
	\$26361-F3845-E301/ \$26361-F3845-E201	OS bundled	Direct	Supported	Supported	No	Supported	Supported	Planned 2	Planned 2	
	PY-SC2Z0/PYBSC2Z0 S26361-F3628-L501/ S26361-F3628-E1	EMPD *3	Direct	Supported	Supported	No	Supported	Supported	Planned 2	Planned 2	
Windows Server 2016 (including Hyper-V)		OS bundled	Direct	Supported	Supported	No	Supported	Supported	Planned 2	Planned 2	
Windows Storage Server 2016	PY-SCD08/PYBSCD082 S26361-F4480-L1/	EMPD *3	Switch blade/	Supported	Supported	No	Supported	Planned 2	Planned 2	Planned 2	
	S26361-F4480-E1	OS bundled	Pass-through blade	Supported	Supported	No	Supported	Planned 2	Planned 2	Planned 2	
	LSI SAS9500-16e	EMPD	- Direct	Planned 2	Supported	No	Supported	Supported	Planned 2	Planned 2	HBA's driver version
	2010/100000 100	OS bundled	Billoot	Planned 2	Supported	No	Supported	Supported	Planned 2	Planned 2	"2.61.41.00" or later is supported.
	LSI SAS9400-8e	EMPD *3	- Direct	Planned 2	Supported	No	Supported	Supported	Planned 2	Planned 2	
	20. 0. 100 100 00	OS bundled	5.1000	Planned 2	Supported	No	Supported	Supported	Planned 2	Planned 2	
	LSI SAS9300-8e	EMPD *3	Direct/	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
	LSI SAS9300-8e	OS bundled	via switch *2	Supported	Supported	*1	Supported	Supported	Planned 2	Planned 2	
	LSI SAS9200-8e	EMPD *3	Direct/	Supported	Supported	Yes	Supported	Supported	Planned 2	Planned 2	
	please ask server supplier if the con-	OS bundled	via switch *2	Supported	Supported	*1	Supported	Supported	Planned 2	Planned 2	

<sup>\*1</sup> ETERNUS supports SAS boot, but please ask server supplier if the connected server supports SAS boot.
\*2 Only direct connection is supported on DX100 S4 and DX200 S4.
\*3 EMPD does not support Windows Storage Server 2016

				Sto	rage			Clu	ster		
os	НВА	Path Failover	Connected type	DX60 S4/S3 DX100 S3 DX200 S3 (SAS 6Gbps port)	DX60 S5/S4 DX100 S5/S4 DX200 S5/S4 (SAS 12Gbps port)	SAS boot	WSFC	Oracle RAC 11g R2/12c R1	CLUSTER Pro X 3.1 or later	LifeKeeper v8 or later	Instruction for use
	PY-SC3FE/PYBSC3FE/ PYBSC3FEL S26361-F3845-L501/	EMPD	Direct	Supported	Supported	No	Supported	Supported	Supported	Supported	
	S26361-F3845-E1/ S26361-F3845-E201	OS bundled		Supported	Supported	No	Supported	Supported	Supported	Supported	
	PY-SC2Z0/PYBSC2Z0 S26361-F3628-L501/	EMPD	Direct	Supported	Supported	No	Supported	Supported	Supported	Supported	
	S26361-F3628-E1	OS bundled	Direct	Supported	Supported	No	Supported	Supported	Supported	Supported	
	PY-SCD08/PYBSCD082 S26361-F4480-L1/ S26361-F4480-E1	EMPD	Switch blade/	Supported	Supported	No	Supported	Supported	Supported	Supported	
		OS bundled	Pass-through blade	Supported	Supported	No	Supported	Supported	Supported	Supported	
Windows Server 2012R2 (including Hyper-V)	PY-SC1Y0/PY-SC1Y0L/ PYBSC1Y0/PYBSC1Y0L	EMPD	Direct	Supported	-	No	Supported	Supported	Supported	Supported	
Windows Storage Server 2012R2	S26361-F3271-L1/L201/E1/E201	OS bundled	Direct	Supported	-	No	Supported	Supported	Supported	Supported	
	LSI SAS9300-8e	EMPD	Direct/	Supported	Supported	Yes	Supported	Supported	Supported	Supported	
	LSI 3A39300-0e	OS bundled	via switch *2	Supported	Supported	*1	Supported	Supported	Supported	Supported	
	1 21 2420200 20	EMPD	Direct/	Supported	Supported	Yes	Supported	Supported	Supported	Supported	
	LSI SAS9200-8e	OS bundled	via switch *2	Supported	Supported	*1	Supported	Supported	Supported	Supported	
	LSI SAS3442E-R	EMPD	Direct	Supported	-	Yes	Supported	Supported	Supported	Supported	
		OS bundled	Direct -	Supported	-	*1	Supported	Supported	Supported	Supported	_

<sup>\*1</sup> ETERNUS supports SAS boot, but please ask server supplier if the connected server supports SAS boot.
\*2 Only direct connection is supported on DX100 S4 and DX200 S4.

				Sto	rage			Clu	ster		
os	НВА	Path Failover	Connected type	DX60 S4/S3 DX100 S3 DX200 S3 (SAS 6Gbps port)	DX60 S4 DX100 S4 DX200 S4 (SAS 12Gbps port)	SAS boot	WSFC	Oracle RAC 11g R2/12c R1	CLUSTER Pro X 3.1 or later	LifeKeeper v8 or later	Instruction for use
	PY-SC3FE/PYBSC3FE/ PYBSC3FEL S26361-F3845-L501/	EMPD	Direct	Supported	Supported	No	Supported	Supported	Supported	Supported	
	\$26361-F3845-E301/ \$26361-F3845-E201	OS bundled	Direct	Supported	Supported	No	Supported	Supported	Supported	Supported	
	PY-SC2Z0/PYBSC2Z0 S26361-F3628-L501/	EMPD	Direct	Supported	Supported	No	Supported	Supported	Supported	Supported	
	S26361-F3628-E1	OS bundled	Direct	Supported	Supported	No	Supported	Supported	Supported	Supported	
	PY-SCD08/PYBSCD082	EMPD	Switch blade/	Supported	Supported	No	Supported	Supported	Supported	Supported	
	S26361-F4480-L1/ S26361-F4480-E1	OS bundled	Pass-through blade	Supported	Supported	No	Supported	Supported	Supported	Supported	
Windows Server 2012 (including Hyper-V)	PY-SC1Y0/PY-SC1Y0L/ PYBSC1Y0/PYBSC1Y0L	EMPD	Direct	Supported	-	No	Supported	Supported	Supported	Supported	
Windows Storage Server 2012	S26361-F3271-L1/L201/E1/E201	OS bundled	Direct	Supported	-	No	Supported	Supported	Supported	Supported	
	LSI SAS9300-8e	EMPD	Direct/	Supported	Supported	Yes	Supported	Supported	Supported	Supported	
	LSI SAS9300-06	OS bundled	via switch *2	Supported	Supported	*1	Supported	Supported	Supported	Supported	
	LSI SAS9200-8e	EMPD	Direct/	Supported	Supported	Yes	Supported	Supported	Supported	Supported	
	L31 3A39200-66	OS bundled	via switch *2	Supported	Supported	*1	Supported	Supported	Supported	Supported	
	LSI SAS3442E-R	EMPD	Direct	Supported	-	Yes	Supported	Supported	Supported	Supported	
	LOI OMOO44ZE-R	OS bundled	Direct	Supported	-	*1	Supported	Supported	Supported	Supported	

<sup>\*1</sup> ETERNUS supports SAS boot, but please ask server supplier if the connected server supports SAS boot.
\*2 Only direct connection is supported on DX100 S4 and DX200 S4.

## RHEL (FC connection) Edition 183: 2023/12/22

Notes - Please contact the server supplier for the server support status of OS, multipath software, HBA and clusterware listed here.

- Please contact the product supplier for operating condition of multipath software and HBA listed here.
- Please use the latest version of HBA firmware and driver unless note is stated.
- Please use the latest version of server BIOS unless note is stated.
- Please contact the server supplier for connection availability of HBA and FC switch.
- Please contact the clusterware supplier for combination of Server, OS version, multipath software, HBA, and clusterware version.
- On Oracle Linux and SUSE Linux Enterprise Server environment or on VxVM configuration, UNMAP function is not supported on Deduplication/Compression volume.
- Trademark symbols have been omitted from this document.
- HBA for PRIMEQUEST is shown as MC-0JFCn\*, the character "\*" can be any character applicable. Ex) MC-0JFC3\* means MC-0JFC31 and MC-0JFC3L are applicable.
- Storage Cluster function is not supported on DX60 S5/S4/S3.
- In this document, the following abbreviations are used;

EMPD (ETERNUS Multipath Driver), RHEL (Red Hat Enterprise Linux), PCL (PRIMECLUSTER), VCS (Veritas Cluster Server)

- FC 8Gbps (maximum transfer rate) of "DX S5 series" is supported only on DX60 S5.

					Storaç	ge			Cluster	
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	PCL 4.7 *1	Instruction for use
		EMPD	Direct/ via switch	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported *16	
	MC-0JFCR* MC-0JFCS*	EMPD + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported *16	
	*7	OS bundled	Direct/ via switch	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported *16	
Red Hat Enterprise Linux		OS bundled + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported *16	
(Intel64) 9 & KVM		EMPD	Direct/ via switch	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported *16	
	MC-0JFCV*	EMPD + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported *16	
	MC-0JFCW*	OS bundled	Direct/ via switch	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported *16	
		OS bundled + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported *16	

<sup>\*1</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

<sup>\*8</sup> Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*15</sup> When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

					Stora	ne .			Cluster	
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	PCL 4.7 *1	Instruction for use
		EMPD	直結/ スイッチ	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported *16	
	MC-0JFCM* MC-0JFCN*	EMPD + Storage Cluster *8	スイッチ *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported *16	
	*20	OS標準	直結/ スイッチ	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported *16	
		OS標準 + Storage Cluster *8	スイッチ *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported *16	
		EMPD	直結/ スイッチ	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported *16	
	MC-0JFCF* MC-0JFCG*	EMPD + Storage Cluster *8	スイッチ *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported *16	
	*20	OS標準	直結/ スイッチ	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported *16	
Red Hat Enterprise Linux (Intel64)		OS標準 + Storage Cluster *8	スイッチ *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported *16	
9 & KVM		EMPD	直結/ スイッチ	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported *16	
	MC-0JFCK*	EMPD + Storage Cluster *8	スイッチ *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported *16	
	MC-0JFCL*	OS標準	直結/ スイッチ	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported *16	
		OS標準 + Storage Cluster *8	スイッチ *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported *16	
		EMPD	直結/ スイッチ	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported *16	
	MC-0JFCP*	EMPD + Storage Cluster *8	スイッチ *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported *16	
	MC-0JFCQ*	OS標準	直結/ スイッチ	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported *16	
		OS標準 + Storage Cluster *8	スイッチ *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported *16	

					Stora	ge						Cluste	r			
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	PCL 4.7 *1	Oracle RAC /SEHA 19c/21c	LifeKeeper V9.4 or later *7	RHEL HA	CLUSTER PRO X 3.1 or later 4.0 or later (except DX8900 S4)	VCS	ClusterPerfect	Instruction for use
	DV 50444/DVD50444/	EMPD	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Supported	-	Planned 2	
	PY-FC441/PYBFC441/ PYBFC441L PY-FC442/PYBFC442/	EMPD + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	PYBFC442L *15	OS bundled	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	T10-DIF function is supported, but please ask server supplier if the connected server
	.0	OS bundled + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	supports T10-DIF function or not.
		EMPD	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Supported	-	Planned 2	
Red Hat Enterprise Linux	PY-FC421/PYBFC421/ PYBFC421L PY-FC422/PYBFC422/	EMPD + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
(Intel64) RHEL9 & KVM	PYBFC422/ PYBFC422L *15	OS bundled	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	T10-DIF function is supported, but please ask server supplier if the connected server
	10	OS bundled + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	supports T10-DIF function or not.
		EMPD	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Supported	-	Planned 2	
	PY-FC411/PYBFC411/ PYBFC411L	EMPD + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	PY-FC412/PYBFC412/ PYBFC412L	OS bundled	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	T10-DIF function is supported, but please ask
		OS bundled + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	server supplier if the connected server supports T10-DIF function or not.

<sup>\*1</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

\*11 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

\*15 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

\*16 PCL 4.6 is supported. But, shared disk and GDS resource settings are not supported.

	PY-FC351/PYBFC351/	EMPD	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Supported	-	Planned 2	
	PYBFC351L PY-FC352/PYBFC352/	EMPD + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	PYBFC352L S26361-F4044-L501/E1/E201 S26361-F4044-L502/E2/E202	OS bundled	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	T10-DIF function is supported, but please ask
	*15	OS bundled + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	server supplier if the connected server supports T10-DIF function or not.
	PY-FC341/PYBFC341/	EMPD	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Supported	-	Planned 2	
	PYBFC341L PY-FC342/PYBFC342/	EMPD + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	PYBFC342L S26361-F4043-L501/E1/E201	OS bundled	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	T10-DIF function is supported, but please ask
Red Hat Enterprise Linux	S26361-F4043-L502/E2/E202	OS bundled + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	server supplier if the connected server supports T10-DIF function or not.
(Intel64) RHEL9 & KVM	PY-FC331/PYBFC331/	EMPD	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Supported	-	Planned 2	
	PYBFC331L PY-FC332/PYBFC332/ PYBFC332L	EMPD + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	S26361-F5596-L501/E1/E201 S26361-F5596-L502/E2/E202	OS bundled	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	T10-DIF function is supported, but please ask
	*15	OS bundled + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	server supplier if the connected server supports T10-DIF function or not.
	PY-FC321/PY-FC322/	EMPD	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Supported	-	Planned 2	
	S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201	EMPD + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	S26361-F5580-L502 S26361-F5580-E2	OS bundled	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	T10-DIF function is supported, but please ask
	S26361-F5580-E202	OS bundled + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	supports T10-DIF function or not.

<sup>\*1</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

<sup>\*7</sup> LifeKeeper does not support KVM.

<sup>\*8</sup> Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

\*15 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

<sup>\*17</sup> When connecting to Red Hat Enterprise Linux 8.4 for use, apply the advisory number RHBA-2021: 2772.

					Storaç	ge						Cluste	er			
OS	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	PCL 4.7 *1	Oracle RAC /SEHA 19c/21c	LifeKeeper V9.4 or later *7	RHEL HA	CLUSTER PRO X 3.1 or later 4.0 or later (except DX8900 S4)	VCS	ClusterPerfect	Instruction for use
		EMPD	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Supported	-	Planned 2	
	Emulex LPe36000 / LPe36002	EMPD + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	or OEM products *15	OS bundled	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	T10-DIF function is supported, but please ask
		OS bundled + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	server supplier if the connected server supports T10-DIF function or not.
		EMPD	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Supported	-	Planned 2	
	Emulex LPe35000 / LPe35002	EMPD + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	or OEM products *15	OS bundled	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	T10-DIF function is supported, but please ask
Red Hat Enterprise Linux		OS bundled + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	server supplier if the connected server supports T10-DIF function or not.
(Intel64) RHEL9 & KVM		EMPD	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Supported	-	Planned 2	
	Emulex LPe32000 / LPe32002	EMPD + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	or OEM products *15	OS bundled	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	T10-DIF function is supported, but please ask
		OS bundled + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	server supplier if the connected server supports T10-DIF function or not.
		EMPD	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Supported	-	Planned 2	
	Emulex LPe31000 / LPe31002	EMPD + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	or OEM products *15	OS bundled	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	T10-DIF function is supported, but please ask
		OS bundled + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	server supplier if the connected server supports T10-DIF function or not.

<sup>\*1</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*7</sup> LifeKeeper does not support KVM.

<sup>\*8</sup> Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

\*11 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*12</sup> SAN boot is supported on 16Gbps Link Speed only.

<sup>\*15</sup> When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

<sup>\*17</sup> When connecting to Red Hat Enterprise Linux 8.4 for use, apply the advisory number RHBA-2021: 2772.

					Storage	9						Cluste	r			
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	PCL 4.7 *1	Oracle RAC /SEHA 19c/21c	LifeKeeper V9.4 or later *7	RHEL HA	CLUSTER PRO X 3.1 or later 4.0 or later (except DX8900 S4)	VCS	ClusterPerfect	Instruction for use
		EMPD	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Supported	-	Planned 2	
	QLogic QLE2870/QLE2872/QLE2874	EMPD + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	or OEM products	OS bundled	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	T10-DIF function is supported, but please ask
		OS bundled + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	server supplier if the connected server supports T10-DIF function or not.
		EMPD	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Supported	-	Planned 2	
	QLogic QLE2770/QLE2772/QLE2774	EMPD + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	or OEM products	OS bundled	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	T10-DIF function is supported, but please ask server supplier if the connected server
Red Hat Enterprise Linux		OS bundled + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	supports T10-DIF function or not.
(Intel64) RHEL9 & KVM		EMPD	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Supported	-	Planned 2	
	QLogic QLE2740/QLE2742/QLE2764	EMPD + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	or OEM products	OS bundled	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	T10-DIF function is supported, but please ask server supplier if the connected server
		OS bundled + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	supports T10-DIF function or not.
		EMPD	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Supported	-	Planned 2	
	QLogic QLE2690/ QLE2692/	EMPD + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	QLE2692/ QLE2694 or OEM products	OS bundled	Direct/ via switch	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Supported 9.0/9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	T10-DIF function is supported, but please ask server supplier if the connected server
	·	OS bundled + Storage Cluster *8	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	Yes	Supported	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	supports T10-DIF function or not.

\*1 PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

\*3 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

\*7 LifeKeeper does not support KVM.

\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

\*11 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

\*12 SAN boot is supported on 16Gbps Link Speed only.

\*15 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

\*17 When connecting to Red Hat Enterprise Linux 8.4 for use, apply the advisory number RHBA-2021: 2772.

					Stora	ge			Cluster	
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	PCL 4.6 *1	Instruction for use
		EMPD	Direct/ via switch	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Yes	Supported *16	
	MC-0JFCR* MC-0JFCS*	EMPD + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported *16	
	*7	OS bundled	Direct/ via switch	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Yes	Supported *16	
Red Hat Enterprise Linux		OS bundled + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported *16	
(Intel64) 8 & KVM		EMPD	Direct/ via switch	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Yes	Supported *16	
	MC-0JFCV*	EMPD + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported *16	
	MC-0JFCW*	OS bundled	Direct/ via switch	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Yes	Supported *16	
		OS bundled + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported *16	

\*1 PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

\*11 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

\*15 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

\*16 PCL 4.6 is supported. But, shared disk and GDS resource settings are not supported.

					<u> </u>				01 1	
				-	Stora		T	<u> </u>	Cluster	
os	HBA	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	PCL 4.6 *1	Instruction for use
		EMPD	Direct/ via switch	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Yes	Supported *16	
	MC-0JFCF* MC-0JFCG*	EMPD + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported *16	
	*15	OS bundled	Direct/ via switch	Supported 8.0 to 8.2/8.4/8.6/8.8 *17	Supported 8.0 to 8.2/8.4/8.6/8.8 *17	Supported 8.0 to 8.2/8.4/8.6/8.8 *17	Supported 8.0 to 8.2/8.4/8.6/8.8 *17	Yes 8.2/8.4/8.6/8.8	Supported *16	
		OS bundled + Storage Cluster *8	via switch *11	Supported 8.1/8.6/8.8	Supported 8.1/8.6/8.8	Supported 8.1/8.6/8.8	Supported 8.1/8.6/8.8	Yes 8.6/8.8	Supported *16	
		EMPD	Direct/ via switch	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Yes	Supported *16	
	MC-0JFCK*	EMPD + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported *16	
	MC-0JFCL*	OS bundled	Direct/ via switch	Supported 8.2/8.4/8.6/8.8*17	Supported 8.2/8.4/8.6/8.8*17	Supported 8.2/8.4/8.6/8.8*17	Supported 8.2/8.4/8.6/8.8*17	Yes	Supported *16	
Red Hat Enterprise Linux (Intel64)		OS bundled + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported *16	
8 & KVM		EMPD	Direct/ via switch	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Yes	Supported *16	
	MC-0JFCM* MC-0JFCN*	EMPD + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported *16	
	*15	OS bundled	Direct/ via switch	Supported 8.0 to 8.2/8.4/8.6/8.8 *17	Supported 8.0 to 8.2/8.4/8.6/8.8 *17	Supported 8.0 to 8.2/8.4/8.6/8.8 *17	Supported 8.0 to 8.2/8.4/8.6/8.8 *17	Yes 8.2/8.4/8.6/8.8	Supported *16	
		OS bundled + Storage Cluster *8	via switch *11	Supported 8.1/8.6/8.8	Supported 8.1/8.6/8.8	Supported 8.1/8.6/8.8	Supported 8.1/8.6/8.8	Yes 8.6/8.8	Supported *16	
		EMPD	Direct/ via switch	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Yes	Supported *16	
	MC-0JFCP*	EMPD + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported *16	
	MC-0JFCQ*	OS bundled	Direct/ via switch	Supported 8.2/8.4/8.6/8.8*17	Supported 8.2/8.4/8.6/8.8*17	Supported 8.2/8.4/8.6/8.8*17	Supported 8.2/8.4/8.6/8.8*17	Yes	Supported *16	
		OS bundled + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported *16	

<sup>\*1</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

<sup>\*8</sup> Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.
\*15 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

<sup>\*16</sup> PCL 4.6 is supported. But, shared disk and GDS resource settings are not supported.

					Stora	ige						Cluste	er			
OS	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	PCL 4.6 *1	Oracle RAC /SEHA 19c/21c	LifeKeeper V9.4 or later *7	RHEL HA	CLUSTER PRO X 3.1 or later 4.0 or later (except DX8900 S4)	VCS	ClusterPerfect	Instruction for use
		EMPD	Direct/ via switch	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
	PY-FC441/PYBFC441/ PYBFC441L PY-FC442/PYBFC442/	EMPD + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	1	Planned 2	
	PYBFC442L *15	OS bundled	Direct/ via switch	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Supported	T10-DIF function is supported, but please ask server supplier if the connected server
		OS bundled + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Planned 2	supports T10-DIF function or not.
		EMPD	Direct/ via switch	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
	PY-FC421/PYBFC421/ PYBFC421L PY-FC422/PYBFC422/	EMPD + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Planned 2	
	PYBFC422L *15	OS bundled	Direct/ via switch	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Supported	T10-DIF function is supported, but please ask server supplier if the connected server
		OS bundled + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Planned 2	supports T10-DIF function or not.
		EMPD	Direct/ via switch	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
	PY-FC411/PYBFC411/ PYBFC411L	EMPD + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Planned 2	
	PY-FC412/PYBFC412/ PYBFC412L	OS bundled	Direct/ via switch	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Supported	T10-DIF function is supported, but please ask server supplier if the connected server
		OS bundled + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Planned 2	supports T10-DIF function or not.
		EMPD	Direct/ via switch	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
Red Hat Enterprise Linux (Intel64)	PY-FC351/PYBFC351/ PYBFC351L PY-FC352/PYBFC352/ PYBFC352L	EMPD + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Planned 2	
RHEL8 & KVM	\$26361-F4044-L501/E1/E201 \$26361-F4044-L502/E2/E202 *15	OS bundled	Direct/ via switch	Supported 8.0 to 8.2/8.4/8.6/8.8 *17	Supported 8.0 to 8.2/8.4/8.6/8.8 *17	Supported 8.0 to 8.2/8.4/8.6/8.8 *17	Supported 8.0 to 8.2/8.4/8.6/8.8 *17	Yes 8.2/8.4/8.6/8.8	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Supported	T10-DIF function is supported, but please ask server supplier if the connected server
		OS bundled + Storage Cluster *8	via switch *11	Supported 8.1/8.6/8.8	Supported 8.1/8.6/8.8	Supported 8.1/8.6/8.8	Supported 8.1/8.6/8.8	Yes 8.6/8.8	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Planned 2	supports T10-DIF function or not.
		EMPD	Direct/ via switch	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
	PY-FC341/PYBFC341/ PYBFC341L PY-FC342/PYBFC342/	EMPD + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Planned 2	
	PYBFC342L S26361-F4043-L501/E1/E201 S26361-F4043-L502/E2/E202	OS bundled	Direct/ via switch	Supported 8.2/8.4/8.6/8.8*17	Supported 8.2/8.4/8.6/8.8*17	Supported 8.2/8.4/8.6/8.8*17	Supported 8.2/8.4/8.6/8.8*17	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Supported	T10-DIF function is supported, but please ask server supplier if the connected server
		OS bundled + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Planned 2	supports T10-DIF function or not.
	PY-FC331/PYBFC331/	EMPD	Direct/ via switch	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
	PY-FC331/PYBFC331/ PYBFC331L PY-FC332/PYBFC332/ PYBFC332L	EMPD + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Planned 2	
	S26361-F5596-L501/E1/E201 S26361-F5596-L502/E2/E202 *15	OS bundled	Direct/ via switch	Supported 8.0 to 8.2/8.4/8.6/8.8 *17	Supported 8.0 to 8.2/8.4/8.6/8.8 *17	Supported 8.0 to 8.2/8.4/8.6/8.8 *17	Supported 8.0 to 8.2/8.4/8.6/8.8 *17	Yes 8.2/8.4/8.6/8.8	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Supported	T10-DIF function is supported, but please ask server supplier if the connected server
		OS bundled + Storage Cluster *8	via switch *11	Supported 8.1/8.6/8.8	Supported 8.1/8.6/8.8	Supported 8.1/8.6/8.8	Supported 8.1/8.6/8.8	Yes 8.6/8.8	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Planned 2	supports T10-DIF function or not.
	DV 50204/DV 502001	EMPD	Direct/ via switch	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201	EMPD + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Planned 2	
	S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202	OS bundled	Direct/ via switch	Supported 8.2/8.4/8.6/8.8*17	Supported 8.2/8.4/8.6/8.8*17	Supported 8.2/8.4/8.6/8.8*17	Supported 8.2/8.4/8.6/8.8*17	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Supported	T10-DIF function is supported, but please ask server supplier if the connected server
		OS bundled + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Planned 2	supports T10-DIF function or not.
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\*1 PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

\*7 LifeKeeper does not support KVM.

\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

\*11 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

\*15 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

\*17 When connecting to Red Hat Enterprise Linux 8.4 for use, apply the advisory number RHBA-2021: 2772.

					Stora	age						Cluster				
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	PCL 4.6 *1	Oracle RAC /SEHA 19c/21c	LifeKeeper V9.4 or later *7	RHEL HA	CLUSTER PRO X 3.1 or later 4.0 or later (except DX8900 S4)	VCS	ClusterPerfect	Instruction for use
		EMPD	Direct/ via switch	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Yes	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
	Emulex LPe36000 / LPe36002	EMPD + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Planned 2	
	or OEM products *15	OS bundled	Direct/ via switch	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Supported	T10-DIF function is supported, but please ask
		OS bundled + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Planned 2	server supplier if the connected server supports T10-DIF function or not.
		EMPD	Direct/ via switch	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Yes	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
	Emulex LPe35000 / LPe35002	EMPD + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Planned 2	
	or OEM products *15	OS bundled	Direct/ via switch	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Supported	T10-DIF function is supported, but please ask
Red Hat Enterprise Linux		OS bundled + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Planned 2	server supplier if the connected server supports T10-DIF function or not.
(Intel64) RHEL8 & KVM		EMPD	Direct/ via switch	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Yes	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
	Emulex LPe32000 / LPe32002	EMPD + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Planned 2	
	or OEM products *15	OS bundled	Direct/ via switch	Supported 8.0 to 8.2/8.4/8.6/8.8 *17	Supported 8.0 to 8.2/8.4/8.6/8.8 *17	Supported 8.0 to 8.2/8.4/8.6/8.8 *17	Supported 8.0 to 8.2/8.4/8.6/8.8 *17	Yes 8.2/8.4/8.6/8.8	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Supported	T10-DIF function is supported, but please ask
		OS bundled + Storage Cluster *8	via switch *11	Supported 8.1/8.6/8.8	Supported 8.1/8.6/8.8	Supported 8.1/8.6/8.8	Supported 8.1/8.6/8.8	Yes 8.6/8.8	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Planned 2	<ul> <li>server supplier if the connected server supports T10-DIF function or not.</li> </ul>
		EMPD	Direct/ via switch	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Yes	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
	Emulex LPe31000 / LPe31002	EMPD + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Planned 2	
	or OEM products *15	OS bundled	Direct/ via switch	Supported 8.0 to 8.2/8.4/8.6/8.8 *17	Supported 8.0 to 8.2/8.4/8.6/8.8 *17	Supported 8.0 to 8.2/8.4/8.6/8.8 *17	Supported 8.0 to 8.2/8.4/8.6/8.8 *17	Yes 8.2/8.4/8.6/8.8	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Supported	T10-DIF function is supported, but please ask
		OS bundled + Storage Cluster *8	via switch *11	Supported 8.1/8.6/8.8	Supported 8.1/8.6/8.8	Supported 8.1/8.6/8.8	Supported 8.1/8.6/8.8	Yes 8.6/8.8	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Planned 2	<ul> <li>server supplier if the connected server supports T10-DIF function or not.</li> </ul>

		EMPD	Direct/ via switch	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Yes	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
	QLogic QLE2770/QLE2772/QLE2774	EMPD + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Planned 2	
	or OEM products	OS bundled	Direct/ via switch	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Supported 8.4/8.6/8.8 *17	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Supported	T10-DIF function is supported, but please ask server supplier if the connected server
		OS bundled + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Planned 2	supports T10-DIF function or not.
		EMPD	Direct/ via switch	Supported 8.1 to 8.4/8.6/8.8 *17	Yes	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2				
Red Hat Enterprise Linux (Intel64)	QLogic QLE2740/QLE2742/QLE2764	EMPD + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Planned 2	
RHEL8 & KVM	or OEM products	OS bundled	Direct/ via switch	Supported 8.2/8.4/8.6/8.8*17	Supported 8.2/8.4/8.6/8.8*17	Supported 8.2/8.4/8.6/8.8*17	Supported 8.2/8.4/8.6/8.8*17	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Supported	T10-DIF function is supported, but please ask server supplier if the connected server
		OS bundled + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Planned 2	supports T10-DIF function or not.
		EMPD	Direct/ via switch	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Supported 8.1 to 8.4/8.6/8.8 *17	Yes	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
	QLogic QLE2690/ QLE2692/	EMPD + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Planned 2	
	QLE2694 or OEM products	OS bundled	Direct/ via switch	Supported 8.2/8.4/8.6/8.8*17	Supported 8.2/8.4/8.6/8.8*17	Supported 8.2/8.4/8.6/8.8*17	Supported 8.2/8.4/8.6/8.8*17	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Supported	T10-DIF function is supported, but please ask server supplier if the connected server
		OS bundled + Storage Cluster *8	via switch *11	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Supported 8.6/8.8	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Planned 2	supports T10-DIF function or not.

<sup>\*1</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*7</sup> LifeKeeper does not support KVM.

\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*12</sup> SAN boot is supported on 16Gbps Link Speed only.

<sup>\*15</sup> When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.
\*17 When connecting to Red Hat Enterprise Linux 8.4 for use, apply the advisory number RHBA-2021: 2772.

					Stora	ge						Cluste	er			
OS	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	PCL 4.6 *1	Oracle RAC /SEHA 19c/21c	LifeKeeper V8.4 or later *7	RHEL HA	CLUSTER PRO X 3.1 or later 4.0 or later (except DX8900 S4)	VCS	ClusterPerfect	Instruction for use
		EMPD	Direct/ via switch	Supported 8.1 to 8.4/8.6 *17	Supported 8.1 to 8.4/8.6 *17	Supported 8.1 to 8.4/8.6 *17	Supported 8.1 to 8.4/8.6 *17	Yes 8.1 to 8.4	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Planned 2	
		EMPD + Storage Cluster *8	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2		Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	Emulex LPe16000 / LPe16002	OS bundled	Direct/ via switch	Supported 8.0 to 8.2/8.4*17	Supported 8.0 to 8.2/8.4*17	Supported 8.0 to 8.2/8.4*17	Supported 8.0 to 8.2/8.4*17	Yes*3 8.2/8.4	Supported	Supported	Planned 2	Planned 2	Supported	-	Supported	T10-DIF function is supported, but please ask server supplier if the connected server
	or OEM products	OS bundled + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2		Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	supports T10-DIF function or not.
		VxVM DMP	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2		-	-	-	-	-	Planned 2	-	
Red Hat Enterprise Linux (Intel64)		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2		-	1	-	-	-	Planned 2	-	
RHEL8 & KVM		EMPD	Direct/ via switch	Supported 8.1 to 8.4 *17	Supported 8.1 to 8.4 *17	Supported 8.1 to 8.4 *17	Supported 8.1 to 8.4 *17	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Planned 2	
		EMPD + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2		Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	Qlogic QLE2660/QLE2662	OS bundled	Direct/ via switch	Supported 8.2/8.4 *17	Supported 8.2/8.4 *17	Supported 8.2/8.4 *17	Supported 8.2/8.4 *17	Yes	Supported	Supported	Planned 2	Planned 2	Planned 2	-	Supported	T10-DIF function is supported, but please ask server supplier if the connected server
	QLE2670/QLE2672 or OEM products	OS bundled + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2		Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	supports T10-DIF function or not.
		VxVM DMP	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2		-	-	-	-	-	Planned 2	-	
		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2		-	-	-	-	-	Planned 2	-	

\*1 PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*7</sup> LifeKeeper does not support KVM.

<sup>\*8</sup> Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*12</sup> SAN boot is supported on 16Gbps Link Speed only.

<sup>\*15</sup> When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

<sup>\*17</sup> When connecting to Red Hat Enterprise Linux 8.4 for use, apply the advisory number RHBA-2021: 2772.

					Storage	e			Cluster	
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	PCL 4.3 to 4.6 *1	Instruction for use
		EMPD	Direct/ via switch	Supported 7.2 to 7.7/7.9	Supported 7.2 to 7.7/7.9	Supported 7.2 to 7.7/7.9	Supported 7.2 to 7.7/7.9	Yes	Supported	
	MC-0JFCF* MC-0JFCG*	EMPD + Storage Cluster *8	via switch *11	Supported 7.2 to 7.5	Supported 7.2 to 7.5	Supported 7.2 to 7.5	Supported 7.2 to 7.5	No	Planned 2	
	*15	OS bundled	Direct/ via switch	Supported 7.2 to 7.7/7.9	Supported 7.2 to 7.7/7.9	Supported 7.2 to 7.7/7.9	Supported 7.2 to 7.7/7.9	Yes	Supported	
		OS bundled + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	
		EMPD	Direct/ via switch	Supported 7.3 to 7.6	Supported 7.3 to 7.6	Supported 7.3 to 7.6	Supported 7.3 to 7.6	Yes	Supported	
	MC-0JFCK*	EMPD + Storage Cluster *8	via switch *11	Supported 7.3 to 7.6	Supported 7.3 to 7.6	Supported 7.3 to 7.6	Supported 7.3 to 7.6	No	Planned 2	
	MC-0JFCL*	OS bundled	Direct/ via switch	Supported 7.2 to 7.7/7.9	Supported 7.2 to 7.7/7.9	Supported 7.2 to 7.7/7.9	Supported 7.2 to 7.7/7.9	Yes	Supported	
		OS bundled + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	
		EMPD	Direct/ via switch	Supported 7.3 to 7.7	Supported 7.3 to 7.7	Supported 7.3 to 7.7	Supported 7.3 to 7.7	Yes	Supported	
	MC-0JFCM* MC-0JFCN*	EMPD + Storage Cluster *8	via switch *11	Supported 7.3 to 7.5	Supported 7.3 to 7.5	Supported 7.3 to 7.5	Supported 7.3 to 7.5	No	Planned 2	
	*15	OS bundled	Direct/ via switch	Supported 7.2 to 7.7/7.9	Supported 7.2 to 7.7/7.9	Supported 7.2 to 7.7/7.9	Supported 7.2 to 7.7/7.9	Yes	Supported	
		OS bundled + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	
		EMPD	Direct/ via switch	Supported 7.3 to 7.6	Supported 7.3 to 7.6	Supported 7.3 to 7.6	Supported 7.3 to 7.6	Yes	Supported	
Red Hat Enterprise Linux (Intel64)	MC-0JFCP*	EMPD + Storage Cluster *8	via switch *11	Supported 7.3 to 7.5	Supported 7.3 to 7.5	Supported 7.3 to 7.5	Supported 7.3 to 7.5	No	Planned 2	
7 & KVM	MC-0JFCQ*	OS bundled	Direct/ via switch	Supported 7.2 to 7.7/7.9	Supported 7.2 to 7.7/7.9	Supported 7.2 to 7.7/7.9	Supported 7.2 to 7.7/7.9	Yes	Supported	
		OS bundled + Storage Cluster *8	via switch *11	Supported 7.3 to 7.4	Supported 7.3 to 7.4	Supported 7.3 to 7.4	Supported 7.3 to 7.4	No	Supported	
		EMPD	Direct/ via switch	Supported 7.1 to 7.7	Planned 2	Supported 7.1 to 7.7	Planned 2	Yes	Supported	
	MC-0JFC3*	EMPD + Storage Cluster *8	via switch *11	Supported 7.1 to 7.5	Planned 2	Supported 7.1 to 7.5	Planned 2	No	Planned 2	
	MC-0JFC9*	OS bundled	Direct/ via switch	Supported 7.1 to 7.7	Planned 2	Supported 7.1 to 7.7	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster *8	via switch *11	Supported 7.1 to 7.3	Planned 2	Supported 7.1 to 7.3	Planned 2	No	Supported	
		EMPD	Direct/ via switch	Supported 7.1 to 7.7	Planned 2	Supported 7.1 to 7.7	Planned 2	Yes	Supported	
	MC-0JFC4* MC-0JFCA*	EMPD + Storage Cluster *8	via switch *11	Supported 7.1 to 7.5	Planned 2	Supported 7.1 to 7.5	Planned 2	No	Planned 2	
	IVIO-UJFOA	OS bundled	Direct/ via switch	Supported 7.1 to 7.7	Planned 2	Supported 7.1 to 7.7	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster *8	via switch *11	Supported 7.1 to 7.3	Planned 2	Supported 7.1 to 7.3	Planned 2	No	Supported	
		EMPD	Direct/ via switch	Supported 7.1 to 7.6	Planned 2	Supported 7.1 to 7.6	Planned 2	Yes	Supported	
	MC-0JFC5* MC-0JFC6*	EMPD + Storage Cluster *8	via switch *11	Supported 7.1 to 7.5	Planned 2	Supported 7.1 to 7.5	Planned 2	No	Planned 2	
	IVIC-UJFCO*	OS bundled	Direct/ via switch	Supported 7.2 to 7.6	Planned 2	Supported 7.2 to 7.6	Planned 2	Yes	Supported	
*4 DCL to I/O Femains function is use		OS bundled + Storage Cluster *8	via switch *11	Supported 7.1 to 7.3	Planned 2	Supported 7.1 to 7.3	Planned 2	No	Supported	

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					Storage	Э			Cluster	
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	PCL 4.3 to 4.6 *1	Instruction for use
		EMPD	Direct/ via switch	Supported 7.1 to 7.7	Supported 7.1 to 7.7	Supported 7.1 to 7.7	Supported 7.1 to 7.7	Yes *3 *12	Supported	
	MC-0JFC7*	EMPD + Storage Cluster *8	via switch *11	Supported 7.1 to 7.5	Supported 7.1 to 7.5	Supported 7.1 to 7.5	Supported 7.1 to 7.5	No	Planned 2	
	MC-0JFC8*	OS bundled	Direct/ via switch	Supported 7.1 to 7.7	Supported 7.1 to 7.7	Supported 7.1 to 7.7	Supported 7.1 to 7.7	Yes *3 *12	Supported	
		OS bundled + Storage Cluster *8	via switch *11	Supported 7.1 to 7.4	Supported 7.1 to 7.4	Supported 7.1 to 7.4	Supported 7.1 to 7.4	No	Supported	
		EMPD	Direct/ via switch	Supported 7.1 to 7.6	Supported 7.1 to 7.6	Supported 7.1 to 7.6	Supported 7.1 to 7.6	Yes	Supported	
Red Hat Enterprise Linux (Intel64)	MC-0JFCB*	EMPD + Storage Cluster *8	via switch *11	Supported 7.1 to 7.5	Supported 7.1 to 7.5	Supported 7.1 to 7.5	Supported 7.1 to 7.5	No	Planned 2	
7 & KVM	MC-0JFCC*	OS bundled	Direct/ via switch	Supported 7.2 to 7.6	Supported 7.2 to 7.6	Supported 7.2 to 7.6	Supported 7.2 to 7.6	Yes	Supported	
		OS bundled + Storage Cluster *8	via switch *11	Supported 7.1 to 7.4	Supported 7.1 to 7.4	Supported 7.1 to 7.4	Supported 7.1 to 7.4	No	Supported	
		EMPD	Direct/ via switch	Supported 7.3 to 7.6	Supported 7.3 to 7.6	Supported 7.3 to 7.6	Supported 7.3 to 7.6	Yes	Supported	
	MC-0JFCD*	EMPD + Storage Cluster *8	via switch *11	Supported 7.3 to 7.5	Supported 7.3 to 7.5	Supported 7.3 to 7.5	Supported 7.3 to 7.5	No	Planned 2	
	MC-0JFCE*	OS bundled	Direct/ via switch	Supported 7.3 to 7.6	Supported 7.3 to 7.6	Supported 7.3 to 7.6	Supported 7.3 to 7.6	Yes	Supported	
		OS bundled + Storage Cluster *8	via switch *11	Supported 7.3 to 7.4	Supported 7.3 to 7.4	Supported 7.3 to 7.4	Supported 7.3 to 7.4	No	Supported	

<sup>\*1</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*8</sup> Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

\*11 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

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\*15 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

					Stora	ge						Cluste	er			
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	PCL 4.3 to 4.6 *1	Oracle RAC /SEHA 11g R2/ 12c R1/12c R2 18c/19c	LifeKeeper V8.4 or later V9.0 or later *7 *19	RHEL HA	CLUSTER PRO X 3.1 or later 4.0 or later (except DX8900 S4)	VCS 6.2/ Veritas InfoScale Availability 7.0/7.1/7.3.1	ClusterPerfect	Instruction for use
		EMPD	Direct/ via switch	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	Yes	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
		EMPD + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	PY-FC421/PYBFC421/ PYBFC421L	OS bundled	Direct/ via switch	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Supported	T10-DIF function is supported, but please ask
	PY-FC422/PYBFC422/ PYBFC422L *15	OS bundled + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	server supplier if the connected server supports T10-DIF function or not.
		VxVM DMP	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	-	-	-	-	Planned 2	-	
		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	-	
		EMPD	Direct/ via switch	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	Yes	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
		EMPD + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	PY-FC411/PYBFC411/ PYBFC411L	OS bundled	Direct/ via switch	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Supported	T10-DIF function is supported, but please asl
	PY-FC412/PYBFC412/ PYBFC412L	OS bundled + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	server supplier if the connected server supports T10-DIF function or not.
		VxVM DMP	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	-	-	-	-	Planned 2	-	
		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	-	
		EMPD	Direct/ via switch	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Yes	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
	PY-FC351/PYBFC351/	EMPD + Storage Cluster *8	via switch *11	Supported 7.2 to 7.5	Supported 7.2 to 7.5	Supported 7.2 to 7.5	Supported 7.2 to 7.5	No	Planned 2	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
Red Hat Enterprise Linux	PYBFC351L PY-FC352/PYBFC352/	OS bundled	Direct/ via switch	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Supported	T10-DIF function is supported on RHEL 7.2
(Intel64) RHEL7 & KVM	PYBFC352L S26361-F4044-L501/E1/E201 S26361-F4044-L502/E2/E202	OS bundled + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	or later.
	*15	VxVM DMP	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	Yes	-	-	-	-	-	Planned 2	-	
		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	-	
		EMPD	Direct/ via switch	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Yes	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
	PY-FC341/PYBFC341/	EMPD + Storage Cluster *8	via switch *11	Supported 7.2 to 7.5	Supported 7.2 to 7.5	Supported 7.2 to 7.5	Supported 7.2 to 7.5	No	Planned 2	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
	PYBFC341L PY-FC342/PYBFC342/	OS bundled	Direct/ via switch	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Supported	T10-DIF function is supported on RHEL 7.2
	PYBFC342L S26361-F4043-L501/E1/E201	OS bundled + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	or later.
	S26361-F4043-L502/E2/E202	VxVM DMP	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	Yes	-	-	-	-	-	Planned 2	-	
		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	-	
		EMPD	Direct/ via switch	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Yes	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
	PY-FC331/PYBFC331/	EMPD + Storage Cluster *8	via switch *11	Supported 7.2 to 7.5	Supported 7.2 to 7.5	Supported 7.2 to 7.5	Supported 7.2 to 7.5	No	Planned 2	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
	PYBFC331L PY-FC332/PYBFC332/	OS bundled	Direct/ via switch	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Supported	T10-DIF function is supported on RHEL 7.2
	PYBFC332L S26361-F5596-L501/E1/E201 S26361-F5596-L502/E2/E202	OS bundled + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	or later.
	*15	VxVM DMP	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	Yes	-	-	-	-	-	Planned 2	-	
		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No			-	-		Planned 2	-	

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<sup>\*12</sup> SAN boot is supported on 16Gbps Link Speed only.

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<sup>\*19</sup> Please set the system to cause panic when an error occurs on file system under SAN boot environment. As an example, in case of xfs, please reboot after setting the followings: echo 'fs.xfs.panic\_mask=127' > /etc/sysctl.d/01-xfs.conf

					Storag	e						Cluste	r			
OS	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	PCL 4.3 to 4.6 *1	Oracle RAC /SEHA 11g R2/ 12c R1/12c R2 18c/19c	LifeKeeper V8.4 or later V9.0 or later *7 *19	RHEL HA	CLUSTER PRO X 3.1 or later 4.0 or later (except DX8900 S4)	VCS 6.2/ Veritas InfoScale Availability 7.0/7.1/7.3.1	ClusterPerfect	Instruction for use
		EMPD	Direct/ via switch	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Yes *3*12	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
		EMPD + Storage Cluster *8	via switch *11	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	No	Planned 2	Supported	Supported	Planned 2	Planned 2	1	Planned 2	
	PY-FC221/PY-FC222/	OS bundled	Direct/ via switch	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Yes *3*12	Supported	Supported	Supported	Planned 2	Supported	-	Supported	T10-DIF function is supported on RHEL 7.2
	S26361-F4994-L501/ S26361-F4994-L502	OS bundled + Storage Cluster *8	via switch *11	Supported 7.0 to 7.4	Supported 7.0 to 7.4	Supported 7.0 to 7.4	Supported 7.0 to 7.4	No	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	or later.
		VxVM DMP	Direct/ via switch	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Yes *3*12	-	-	-	-	-	Supported	-	
		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	-	
		EMPD		Supported 7.0 to 7.9	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Yes *12	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
		EMPD + Storage Cluster *8		Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	No	Planned 2	Supported	Supported	Planned 2	Planned 2	1	Planned 2	
Red Hat Enterprise Linux (Intel64)	PY-FCD12/ PYBFCD121/PYBFCD122 S26361-F4994-E402/	OS bundled	Switch blade	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Yes *12	Supported	Supported	Supported	Planned 2	Supported	-	Supported	T10-DIF function is supported on RHEL 7.2
RHEL7 & KVM	S26361-F4994-L402 MC-FC162E	OS bundled + Storage Cluster *8	Switch blade	Supported 7.0 to 7.4	Supported 7.0 to 7.4	Supported 7.0 to 7.4	Supported 7.0 to 7.4	No	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	or later.
		VxVM DMP		Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Yes *12	-	-	-	-	-	Supported	-	
		VxVM DMP + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	-	
		EMPD	Direct/ via switch	Supported 7.0 to 7.9	Planned 2	Supported 7.0 to 7.9	Planned 2	Yes	Supported	Supported	Supported	Planned 2	Planned 2	1	Planned 2	
	PY-FC201/PY-FC202	EMPD + Storage Cluster *8	via switch *11	Supported 7.0 to 7.5	Planned 2	Supported 7.0 to 7.5	Planned 2	No	Planned 2	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
	PG-FC203/PG-FC204 S26361-F3961-L1/ S26361-F3961-L2	OS bundled	Direct/ via switch	Supported 7.0 to 7.9	Planned 2	Supported 7.0 to 7.9	Planned 2	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Supported	
	PY-FCD02 PG-FCD202	OS bundled + Storage Cluster *8	via switch *11	Supported 7.0 to 7.3	Planned 2	Supported 7.0 to 7.3	Planned 2	No	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
	S26361-F3874-L1	VxVM DMP	Direct/ via switch	Supported 7.0 to 7.5	Planned 2	Supported 7.0 to 7.5	Planned 2	Yes	-	<del>-</del>	-	-	-	Supported	-	
		VxVM DMP + Storage Cluster	via switch *11	Supported 7.0 to 7.3	Planned 2	Supported 7.0 to 7.3	Planned 2	No	-	-	-	-	-	Planned 2	-	

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					Storage	e						Cluste	er			
OS	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	PCL 4.3 to 4.6 *1	Oracle RAC /SEHA 11g R2/ 12c R1/12c R2 18c/19c	LifeKeeper V8.4 or later V9.0 or later *7 *19	RHEL HA	CLUSTER PRO X 3.1 or later 4.0 or later (except DX8900 S4)	VCS 6.2/ Veritas InfoScale Availability 7.0/7.1/7.3.1	ClusterPerfect	Instruction for use
		EMPD	Direct/ via switch	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Yes	Supported	Supported	Supported	Planned 2	Planned 2	1	Planned 2	
	PY-FC321/PY-FC322/	EMPD + Storage Cluster *8	via switch *11	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	No	Planned 2	Supported	Supported	Planned 2	Planned 2	1	Planned 2	
	S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201	OS bundled	Direct/ via switch	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Yes	Supported	Supported	Supported	Planned 2	Supported	1	Supported	T10-DIF function is supported on RHEL 7.2
	S26361-F5580-L502 S26361-F5580-E2	OS bundled + Storage Cluster *8	via switch *11	Supported 7.0 to 7.4	Supported 7.0 to 7.4	Supported 7.0 to 7.4	Supported 7.0 to 7.4	No	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	or later.
	S26361-F5580-E202	VxVM DMP	Direct/ via switch	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Yes	-	-	-	-	-	Supported	-	
		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	-	
		EMPD	Direct/ via switch	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Yes	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
	PY-FC311/PY-FC312/	EMPD + Storage Cluster *8	via switch *11	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	No	Planned 2	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
Red Hat Enterprise Linux (Intel64)	S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201	OS bundled	Direct/ via switch	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Supported	T10-DIF function is supported on RHEL 7.2
RHEL7 & KVM	S26361-F5313-L502 S26361-F5313-E2	OS bundled + Storage Cluster *8	via switch *11	Supported 7.0 to 7.4	Supported 7.0 to 7.4	Supported 7.0 to 7.4	Supported 7.0 to 7.4	No	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	or later.
	S26361-F5313-E202	VxVM DMP	Direct/ via switch	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Yes	-	-	-	-	-	Supported	-	
		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	-	
		EMPD	Direct/ via switch	Supported 7.0 to 7.9	Planned 2	Supported 7.0 to 7.9	Planned 2	Yes	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
		EMPD + Storage Cluster *8	via switch *11	Supported 7.0 to 7.5	Planned 2	Supported 7.0 to 7.5	Planned 2	No	Planned 2	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
	PY-FC211/PY-FC212 PG-FC205/PG-FC206	OS bundled	Direct/ via switch	Supported 7.0 to 7.9	Planned 2	Supported 7.0 to 7.9	Planned 2	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Supported	
	S26361-F3631-L1/ S26361-F3631-L2	OS bundled + Storage Cluster *8	via switch *11	Supported 7.0 to 7.3	Planned 2	Supported 7.0 to 7.3	Planned 2	No	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
		VxVM DMP	Direct/ via switch	Supported 7.0 to 7.5	Planned 2	Supported 7.0 to 7.5	Planned 2	Yes	-	-	-	-	-	Supported	-	
		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	-	

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					Stora	ge						Cluste	er			
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	PCL 4.3 to 4.6 *1	Oracle RAC /SEHA 11g R2/ 12c R1/12c R2 18c/19c	LifeKeeper V8.4 or later V9.0 or later *7 *19	RHEL HA	CLUSTER PRO X 3.1 or later 4.0 or later (except DX8900 S4)	VCS 6.2/ Veritas InfoScale Availability 7.0/7.1/7.3.1	ClusterPerfect	Instruction for use
		EMPD	Direct/ via switch	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	Yes *3	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
		EMPD + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	Emulex LPe35000 / LPe35002	OS bundled	Direct/ via switch	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	Yes *3	Supported	Supported	Supported	Planned 2	Supported	-	Supported	T10-DIF function is supported, but please
	or OEM products *15	OS bundled + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	<u>-</u>	Planned 2	server supplier if the connected server supports T10-DIF function or not.
		VxVM DMP	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	-	-	-	-	Planned 2	-	
		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	-	
		EMPD	Direct/ via switch	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Yes *3	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
		EMPD + Storage Cluster *8	via switch *11	Supported 7.2 to 7.5	Supported 7.2 to 7.5	Supported 7.2 to 7.5	Supported 7.2 to 7.5	No	Planned 2	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
	Emulex LPe32000 / LPe32002	OS bundled	Direct/ via switch	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Yes *3	Supported	Supported	Supported	Planned 2	Supported	-	Supported	T10-DIF function is supported, but please
	or OEM products *15	OS bundled + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	server supplier if the connected server supports T10-DIF function or not.
		VxVM DMP	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	Yes *3	-	-	-	-	-	Planned 2	-	
		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	-	
		EMPD	Direct/ via switch	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Yes *3	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
		EMPD + Storage Cluster *8	via switch *11	Supported 7.2 to 7.5	Supported 7.2 to 7.5	Supported 7.2 to 7.5	Supported 7.2 to 7.5	No	Planned 2	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
	Emulex LPe31000 / LPe31002	OS bundled	Direct/ via switch	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Yes *3	Supported	Supported	Supported	Planned 2	Supported	-	Supported	T10-DIF function is supported, but please
	or OEM products *15	OS bundled + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	server supplier if the connected server supports T10-DIF function or not.
		VxVM DMP	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	Yes *3	-	-	-	-	-	Planned 2	-	
Red Hat Enterprise Linux		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	-	
(Intel64) RHEL7 & KVM		EMPD	Direct/ via switch	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	Yes *3	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
		EMPD + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	Qlogic	OS bundled	Direct/ via switch	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	Yes *3	Supported	Supported	Supported	Planned 2	Supported	-	Supported	T10-DIF function is supported, but please
	QLE2870/QLE2872/QLE2874 or OEM products	OS bundled + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	server supplier if the connected server supports T10-DIF function or not.
		VxVM DMP	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	-	-	-	-	Planned 2	-	
		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	-	
		EMPD	Direct/ via switch	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	Yes *3	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
		EMPD + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	Qlogic	OS bundled	Direct/ via switch	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	Yes *3	Supported	Supported	Supported	Planned 2	Supported	-	Supported	T10-DIF function is supported, but please
	QLE2770/QLE2772/QLE2774 or OEM products	OS bundled + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	server supplier if the connected server supports T10-DIF function or not.
		VxVM DMP	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	-	-	-	-	Planned 2	-	
		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	-	
		EMPD	Direct/ via switch	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Yes *3	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
		EMPD + Storage Cluster *8	via switch *11	Supported 7.2 to 7.5	Supported 7.2 to 7.5	Supported 7.2 to 7.5	Supported 7.2 to 7.5	No	Planned 2	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
	Qlogic	OS bundled	Direct/ via switch	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Supported 7.2 to 7.9	Yes *3	Supported	Supported	Supported	Planned 2	Supported	-	Supported	T10-DIF function is supported, but please
	QLE2740/QLE2742/QLE2764 or OEM products	OS bundled + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	server supplier if the connected server supports T10-DIF function or not.
		VxVM DMP	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	Yes *3	-	-	-	-	-	Planned 2	-	
		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	-	

<sup>\*1</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*7</sup> LifeKeeper does not support KVM.

<sup>\*8</sup> Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*12</sup> SAN boot is supported on 16Gbps Link Speed only.

<sup>\*15</sup> When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

102/280
\*19 Please set the system to cause panic when an error occurs on file system under SAN boot environment. As an example, in case of xfs, please reboot after setting the followings: echo 'fs.xfs.panic\_mask=127' > /etc/sysctl.d/01-xfs.conf

					Stora	ge						Cluste	er			
OS	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	PCL 4.3 to 4.6 *1	Oracle RAC /SEHA 11g R2/ 12c R1/12c R2 18c/19c	LifeKeeper V8.4 or later V9.0 or later *7 *19	RHEL HA	CLUSTER PRO X 3.1 or later 4.0 or later (except DX8900 S4)	VCS 6.2/ Veritas InfoScale Availability 7.0/7.1/7.3.1	ClusterPerfect	Instruction for use
		EMPD	Direct/ via switch	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Yes *3 *12	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	When upgrading HBA firmware, please follow
		EMPD + Storage Cluster *8	via switch *11	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	No	Planned 2	Supported	Supported	Planned 2	Planned 2	-	Planned 2	the procedure below.  1. Disconnect FC cable  2. Upgrade HBA firmware
	Emulex LPe16000 / LPe16002	OS bundled	Direct/ via switch	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Yes *3 *12	Supported	Supported	Supported	Planned 2	Supported	-	Supported	3. Power off server 4. Reconnect FC cable
	or OEM products	OS bundled + Storage Cluster *8	via switch *11	Supported 7.0 to 7.4	Supported 7.0 to 7.4	Supported 7.0 to 7.4	Supported 7.0 to 7.4	No	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	5. Power on server
		VxVM DMP	Direct/ via switch	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Yes *3 *12	-	-	-	-	-	Supported	-	When OS bundled path failover function is used, T10-DIF function is supported, but please ask server supplier if the connected
Red Hat Enterprise Linux (Intel64)		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	-	server supports T10-DIF function or not.
RHEL7 & KVM		EMPD	Direct/ via switch	Supported 7.0 to 7.9	Planned 2	Supported 7.0 to 7.9	Planned 2	Yes *3	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
		EMPD + Storage Cluster *8	via switch *11	Supported 7.0 to 7.5	Planned 2	Supported 7.0 to 7.5	Planned 2	No	Planned 2	Supported	Supported	Planned 2	Planned 2	-	Planned 2	When upgrading HBA firmware, please follow
	Emulex LPe12000/LPe12002/LPe1250	OS bundled	Direct/ via switch	Supported 7.0 to 7.9	Planned 2	Supported 7.0 to 7.9	Planned 2	Yes *3	Supported	Supported	Supported	Planned 2	Supported	-	Supported	the procedure below.  1. Disconnect FC cable  2. Upgrade HBA firmware
	or OEM products	OS bundled + Storage Cluster *8	via switch *11	Supported 7.0 to 7.3	Planned 2	Supported 7.0 to 7.3	Planned 2	No	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	3. Power off server 4. Reconnect FC cable
		VxVM DMP	Direct/ via switch	Supported 7.0 to 7.5	Planned 2	Supported 7.0 to 7.5	Planned 2	Yes *3	-	-	-	-	-	Supported	-	5. Power on server
		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	-	

<sup>\*1</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

\*3 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*7</sup> LifeKeeper does not support KVM.

\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*12</sup> SAN boot is supported on 16Gbps Link Speed only.

\*15 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

\*19 Please set the system to cause panic when an error occurs on file system under SAN boot environment. As an example, in case of xfs, please reboot after setting the followings: echo 'fs.xfs.panic\_mask=127' > /etc/sysctl.d/01-xfs.conf

					Storag	e						Cluste	r			
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	PCL 4.3 to 4.6 *1	Oracle RAC /SEHA 11g R2/ 12c R1/12c R2 18c/19c	LifeKeeper V8.4 or later V9.0 or later *7 *19	RHEL HA	CLUSTER PRO X 3.1 or later 4.0 or later (except DX8900 S4)	VCS 6.2/ Veritas InfoScale Availability 7.0/7.1/7.3.1	ClusterPerfect	Instruction for use
		EMPD	Direct/ via switch	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Yes *3	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
		EMPD + Storage Cluster *8	via switch *11	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	No	Planned 2	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
	QLogic QLE2690/	OS bundled	Direct/ via switch	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Yes *3	Supported	Supported	Supported	Planned 2	Supported	-	Supported	T10-DIF function is supported, but please ask
	QLE2692/ QLE2694 or OEM products	OS bundled + Storage Cluster *8	via switch *11	Supported 7.0 to 7.4	Supported 7.0 to 7.4	Supported 7.0 to 7.4	Supported 7.0 to 7.4	No	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	server supplier if the connected server supports T10-DIF function or not.
	·	VxVM DMP	Direct/ via switch	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Yes	-	-	-	-	-	Supported	-	
		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	-	
		EMPD	Direct/ via switch	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Yes *3	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
		EMPD + Storage Cluster *8	via switch *11	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	No	Planned 2	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
Red Hat Enterprise Linux (Intel64)	Qlogic QLE2660/QLE2662	OS bundled	Direct/ via switch	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Yes *3	Supported	Supported	Supported	Planned 2	Supported	-	Supported	T10-DIF function is supported, but please ask server supplier if the connected server
RHEL7 & KVM	QLE2670/QLE2672 or OEM products	OS bundled + Storage Cluster *8	via switch *11	Supported 7.0 to 7.4	Supported 7.0 to 7.4	Supported 7.0 to 7.4	Supported 7.0 to 7.4	No	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	supports T10-DIF function or not.
		VxVM DMP	Direct/ via switch	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Yes	-	-	-	-	-	Supported	-	
		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	ı	
		EMPD	Direct/ via switch	Supported 7.0 to 7.9	Planned 2	Supported 7.0 to 7.9	Planned 2	Yes *3	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
		EMPD + Storage Cluster *8	via switch *11	Supported 7.0 to 7.5	Planned 2	Supported 7.0 to 7.5	Planned 2	No	Planned 2	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
	QLogic QLE2560/QLE2562	OS bundled	Direct/ via switch	Supported 7.0 to 7.9	Planned 2	Supported 7.0 to 7.9	Planned 2	Yes *3	Supported	Supported	Supported	Planned 2	Supported	-	Supported	
	or OEM products	OS bundled + Storage Cluster *8	via switch *11	Supported 7.0 to 7.3	Planned 2	Supported 7.0 to 7.3	Planned 2	No	Supported	Supported	Supported	Planned 2	Planned 2	-	Planned 2	
		VxVM DMP	Direct/ via switch	Supported 7.0 to 7.5	Planned 2	Supported 7.0 to 7.5	Planned 2	Yes	-	-	-	-	-	Supported	-	
*1 PCL's I/O Fencing function is u		VxVM DMP + Storage Cluster	via switch *11	Δ	Planned 2	Δ	Planned 2	No	-	-	-	-	-	Planned 2	-	

<sup>\*1</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*6</sup> Direct connection is supported only with 16Gbps CA.

<sup>\*7</sup> LifeKeeper does not support KVM.

<sup>\*8</sup> Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

\*19 Please set the system to cause panic when an error occurs on file system under SAN boot environment. As an example, in case of xfs, please reboot after setting the followings: echo 'fs.xfs.panic\_mask=127' > /etc/sysctl.d/01-xfs.conf

					Stora	ge			С	luster
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	PCL 4.3/4.4 *1	VCS *5 6.0/6.1
		EMPD	Direct/ via switch	Supported 6.7/6.9/6.10	Supported 6.7/6.9/6.10	Supported 6.7/6.9/6.10	Supported 6.7/6.9/6.10	Yes	Supported	-
		EMPD + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	-
	MC-0JFCF* MC-0JFCG*	OS bundled	Direct/ via switch	Supported	Supported	Supported	Supported	Yes	Supported	-
	WIC-03FCG	OS bundled +	via switch *11	6.7/6.9/6.10 Planned 2	6.7/6.9/6.10 Planned 2	6.7/6.9/6.10 Planned 2	6.7/6.9/6.10 Planned 2	No	Planned 2	_
		Storage Cluster *8  VxVM	Direct/	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	_	Planned 2
		EMPD	via switch Direct/	Supported	Planned 2	Supported	Planned 2	Yes	Supported	-
		EMPD +	via switch via switch *11	6.4 to 6.10 Supported	Planned 2	6.4 to 6.10 Supported	Planned 2	No	Planned 2	
	MC-0JFC3*	Storage Cluster *8	Direct/	6.4 to 6.9 Supported		6.4 to 6.9 Supported				-
	MC-0JFC9*	OS bundled OS bundled +	via switch	6.4 to 6.10 Supported	Planned 2	6.4 to 6.10 Supported	Planned 2	Yes	Supported	-
		Storage Cluster *8	via switch *11	6.4 to 6.9	Planned 2	6.4 to 6.9	Planned 2	No	Supported	-
		VxVM	Direct/ via switch	Supported 6.4 to 6.9	Planned 2	Supported 6.4 to 6.9	Planned 2	Yes	-	Supported
		EMPD	Direct/ via switch	Supported 6.4 to 6.10	Planned 2	Supported 6.4 to 6.10	Planned 2	Yes	Supported	-
		EMPD + Storage Cluster *8	via switch *11	Supported 6.4 to 6.9	Planned 2	Supported 6.4 to 6.9	Planned 2	No	Planned 2	-
	MC-0JFC4* MC-0JFCA*	OS bundled	Direct/ via switch	Supported 6.4 to 6.10	Planned 2	Supported 6.4 to 6.10	Planned 2	Yes	Supported	-
		OS bundled + Storage Cluster *8	via switch *11	Supported 6.4 to 6.9	Planned 2	Supported 6.4 to 6.9	Planned 2	No	Supported	-
		VxVM	Direct/ via switch	Supported 6.4 to 6.9	Planned 2	Supported 6.4 to 6.9	Planned 2	Yes	-	Supported
	MC-0JFC5*	EMPD	Direct/	Supported	Planned 2	Supported	Planned 2	Yes	Supported	-
		EMPD +	via switch via switch *11	6.4 to 6.10 Supported	Planned 2	6.4 to 6.10 Supported	Planned 2	No	Planned 2	_
		Storage Cluster *8  OS bundled	Direct/	6.4 to 6.9 Supported	Planned 2	6.4 to 6.9 Supported	Planned 2	Yes	Supported	_
	MC-0JFC6*	OS bundled +	via switch via switch *11	6.4 to 6.10 Supported	Planned 2	6.4 to 6.10 Supported	Planned 2	No		_
		Storage Cluster *8	Direct/	6.4 to 6.9 Supported		6.4 to 6.9 Supported			Supported	-
Red Hat Enterprise Linux (x86/Intel64)		VxVM	via switch Direct/	6.4 to 6.9 Supported	Planned 2 Supported	6.4 to 6.9 Supported	Planned 2 Supported	Yes Yes	-	Supported
RHEL6 & KVM		EMPD	via switch	6.4 to 6.10	6.4 to 6.10	6.4 to 6.10	6.4 to 6.10	*3 *12	Supported	-
		EMPD + Storage Cluster *8	via switch *11	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	No	Planned 2	-
	MC-0JFC7* MC-0JFC8*	OS bundled	Direct/ via switch	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Yes *3 *12	Supported	-
		OS bundled + Storage Cluster *8	via switch *11	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	No	Supported	-
		VxVM	Direct/ via switch	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Yes *3 *12	-	Supported
		EMPD	Direct/ via switch	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Yes	Supported	-
		EMPD + Storage Cluster *8	via switch *11	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	No	Planned 2	-
	MC-0JFCB* MC-0JFCC*	OS bundled	Direct/	Supported	Supported	Supported	Supported	Yes	Supported	-
	IVIO-UJFGG	OS bundled +	via switch via switch *11	6.4 to 6.10 Supported	6.4 to 6.10 Supported	6.4 to 6.10 Supported	6.4 to 6.10 Supported	No	Supported	-
		Storage Cluster *8  VxVM	Direct/	6.4 to 6.9 Supported	6.4 to 6.9 Supported	6.4 to 6.9 Supported	6.4 to 6.9 Supported	Yes	-	Supported
			via switch Direct/	6.4 to 6.9 Supported	6.4 to 6.9 Supported	6.4 to 6.9 Supported	6.4 to 6.9 Supported		Cunnadad	Supported
		EMPD +	via switch	6.7/6.9/6.10 Supported	6.7/6.9/6.10 Supported	6.7/6.9/6.10 Supported	6.7/6.9/6.10 Supported	Yes	Supported	-
	MC-0JFCD*	Storage Cluster *8	via switch *11  Direct/	6.7/6.9 Supported	6.7/6.9 Supported	6.7/6.9 Supported	6.7/6.9 Supported	No	Planned 2	-
	MC-0JFCE*	OS bundled	via switch	6.7/6.9/6.10	6.7/6.9/6.10	6.7/6.9/6.10	6.7/6.9/6.10	Yes	Supported	-
		OS bundled + Storage Cluster *8	via switch *11	Supported 6.7/6.9	Supported 6.7/6.9	Supported 6.7/6.9	Supported 6.7/6.9	No	Supported	-
		VxVM	Direct/ via switch	Supported 6.7/6.9	Supported 6.7/6.9	Supported 6.7/6.9	Supported 6.7/6.9	Yes	-	Supported
		EMPD	Direct/ via switch	Supported 6.3 to 6.6	Planned 2	Supported 6.3 to 6.6	Planned 2	Yes	Supported	-
		EMPD + Storage Cluster *8	via switch *11	Supported 6.3 to 6.6	Planned 2	Supported 6.3 to 6.6	Planned 2	No	Planned 2	-
	MC-0JFC11/MC-0JFC21	OS bundled	Direct/ via switch	Supported 6.3 to 6.6	Planned 2	Supported 6.3 to 6.6	Planned 2	Yes	Supported	-
		OS bundled + Storage Cluster *8	via switch *11	Supported 6.3 to 6.6	Planned 2	Supported 6.3 to 6.6	Planned 2	No	Planned 2	-
		VxVM	Direct/	Supported	Planned 2	Supported	Planned 2	Yes	-	Supported
			via switch	6.5/6.4		6.5/6.4		105/280		

Instruction for use

\*1 PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

\*5 Veritas Storage Foundation does not support x86 architecture.

\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

\*11 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

				1	Stora	ge	Ī					Cluste	er		T	
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	PCL 4.3 to 4.5 *1	Oracle RAC /SEHA 11g R2/ 12c R1/12c R2 18c/19c	LifeKeeper V8.4 or later *7 (except DX8900 S4)	RHEL HA	CLUSTER PRO X 3.1 or later 4.0 or later (except DX8900 S4)	VCS *5 6.0/6.1/6.2 Veritas InfoScale Availability 7.0/7.1/7.3.1	ClusterPerfect V4.9 *14 (DX8900 S4は除く)	Instruction for use
		EMPD	Direct/ via switch	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
	PY-FC351/PYBFC351/	EMPD + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	PYBFC351L PY-FC352/PYBFC352/	OS bundled	Direct/ via switch	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Supported	
	PYBFC352L S26361-F4044-L501/E1/E201 S26361-F4044-L502/E2/E202	OS bundled + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	*15	VxVM DMP	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	Yes	-	-	-	-	-	Planned 2	-	
		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	-	
		EMPD	Direct/ via switch	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
		EMPD + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	<del>-</del>	Planned 2	
	PY-FC341/PYBFC341/ PYBFC341L PY-FC342/PYBFC342/	OS bundled	Direct/ via switch	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Yes	Supported	Supported	Supported	Planned 2	Supported	<del>-</del>	Supported	
	PYBFC342L S26361-F4043-L501/E1/E201	OS bundled + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	S26361-F4043-L502/E2/E202	VxVM DMP	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	Yes	-	-	-	-	-	Planned 2	-	
		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	-	
		EMPD	Direct/ via switch	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
	PY-FC331/PYBFC331/	EMPD + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	PYBFC331L PY-FC332/PYBFC332/	OS bundled	Direct/ via switch	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Supported	
	PYBFC332L S26361-F5596-L501/E1/E201 S26361-F5596-L502/E2/E202	OS bundled + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	*15	VxVM DMP	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	Yes	-	-	-	-	-	Planned 2	-	
Red Hat Enterprise Linux		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	-	
(x86/Intel64) RHEL6 & KVM		EMPD	Direct/ via switch	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Yes *3*12	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
		EMPD + Storage Cluster *8	via switch *11	Supported 6.3 to 6.9	Supported 6.3 to 6.9	Supported 6.3 to 6.9	Supported 6.3 to 6.9	No	Planned 2	Supported	Planned 2	Planned 2	Supported	-	Planned 2	
	PY-FC221/PY-FC222/	OS bundled	Direct/ via switch	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Yes *3*12	Supported	Supported	Supported	Planned 2	Supported	-	Supported	
	S26361-F4994-L501/ S26361-F4994-L502	OS bundled + Storage Cluster *8	via switch *11	Supported 6.3 to 6.9	Supported 6.3 to 6.9	Supported 6.3 to 6.9	Supported 6.3 to 6.9	No	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
		VxVM DMP	Direct/ via switch	Supported 6.3 to 6.9	Supported 6.3 to 6.9	Supported 6.3 to 6.9	Supported 6.3 to 6.9	Yes *3*12	-	-	-	-	-	Supported	-	
		VxVM DMP + Storage Cluster	via switch *11	Supported 6.3 to 6.9	Supported 6.3 to 6.9	Supported 6.3 to 6.9	Supported 6.3 to 6.9	No	-	-	-	-	-	Supported 6.1.1	-	
		EMPD		Supported 6.3 to 6.10	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Yes *12	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
		EMPD + Storage Cluster *8		Supported 6.3 to 6.9	Supported 6.3 to 6.9	Supported 6.3 to 6.9	Supported 6.3 to 6.9	No	Planned 2	Supported	Planned 2	Planned 2	Supported		Planned 2	
	PY-FCD12/ PYBFCD121/PYBFCD122	OS bundled	ا - الما ماماشده	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Yes *12	Supported	Supported	Supported	Planned 2	Supported	-	Supported	
	S26361-F4994-E402/ S26361-F4994-L402	OS bundled + Storage Cluster *8	Switch blade	Supported 6.3 to 6.10	Supported 6.3 to 6.9	Supported 6.3 to 6.9	Supported 6.3 to 6.9	No	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
		VxVM DMP		Supported 6.3 to 6.9	Supported 6.3 to 6.9	Supported 6.3 to 6.9	Supported 6.3 to 6.9	Yes *12	-	-	-	-	-	Supported	-	
		VxVM DMP + Storage Cluster		Supported 6.3 to 6.9	Supported 6.3 to 6.9	Supported 6.3 to 6.9	Supported 6.3 to 6.9	No	-	-	-	-	-	Supported 6.1.1	-	
		EMPD	Direct/ via switch	Supported 6.3 to 6.10	Planned 2	Supported 6.3 to 6.10	Planned 2	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
		EMPD + Storage Cluster *8	via switch *11	Supported 6.3 to 6.9	Planned 2	Supported 6.3 to 6.9	Planned 2	No	Planned 2	Supported	Planned 2	Planned 2	Supported	-	Planned 2	
	PY-FC201/PY-FC202 PG-FC203/PG-FC204	OS bundled	Direct/ via switch	Supported 6.3 to 6.10	Planned 2	Supported 6.3 to 6.10	Planned 2	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Supported	
	S26361-F3961-L1/ S26361-F3961-L2	OS bundled + Storage Cluster *8	via switch *11	Supported 6.3 to 6.9	Planned 2	Supported 6.3 to 6.9	Planned 2	No	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
	S26361-F3961-L2 S	VxVM DMP	Direct/ via switch	Supported 6.3 to 6.9	Planned 2	Supported 6.3 to 6.9	Planned 2	Yes	-	-	-	-	-	Supported	-	
		VxVM DMP + Storage Cluster	via switch *11	Supported 6.3 to 6.9	Planned 2	Supported 6.3 to 6.9	Planned 2	No	-	-	-	-	-	Supported 6.1.1	-	

<sup>\*1</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.
\*3 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*5</sup> Veritas Storage Foundation does not support x86 architecture.

<sup>\*7</sup> LifeKeeper does not support KVM.

<sup>\*8</sup> Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

\*11 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*12</sup> SAN boot is supported on 16Gbps Link Speed only.

\*15 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

					Stora	ge	T					Clusto	er			
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	PCL 4.3 to 4.5 *1	Oracle RAC /SEHA 11g R2/ 12c R1/12c R2 18c/19c	LifeKeeper V8.4 or later *7 (except DX8900 S4)	RHEL HA	CLUSTER PRO X 3.1 or later 4.0 or later (except DX8900 S4)	VCS *5 6.0/6.1/6.2 Veritas InfoScale Availability 7.0/7.1/7.3.1	ClusterPerfect V4.9 *14 (DX8900 S4は除く)	Instruction for use
		EMPD		Supported 6.3 to 6.10	Planned 2	Supported 6.3 to 6.10	Planned 2	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
		EMPD + Storage Cluster *8		Supported 6.3 to 6.9	Planned 2	Supported 6.3 to 6.9	Planned 2	No	Planned 2	Supported	Planned 2	Planned 2	Supported	-	Planned 2	
	PY-FCD02 PG-FCD202	OS bundled	Switch blade/	Supported 6.3 to 6.10	Planned 2	Supported 6.3 to 6.10	Planned 2	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Supported	
	S26361-F3874-L1 MC-FC82E	OS bundled + Storage Cluster *8	Pass-through blade	Supported 6.3 to 6.9	Planned 2	Supported 6.3 to 6.9	Planned 2	No	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
		VxVM DMP	_	Supported 6.3 to 6.9	Planned 2	Supported 6.3 to 6.9	Planned 2	Yes	-	-	-	-	-	Supported	-	
		VxVM DMP + Storage Cluster	_	Supported 6.3 to 6.9	Planned 2	Supported 6.3 to 6.9	Planned 2	No	-	-	-	-	-	Supported 6.1.1	-	
		EMPD	Direct/ via switch	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
	PY-FC321/PY-FC322/	EMPD + Storage Cluster *8	via switch *11	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	No	Planned 2	Supported	Planned 2	Planned 2	Supported	-	Planned 2	
	S26361-F5580-L501 S26361-F5580-E1	OS bundled	Direct/ via switch	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Supported	
	S26361-F5580-E201 S26361-F5580-L502	OS bundled + Storage Cluster *8	via switch *11	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	No	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
	S26361-F5580-E2 S26361-F5580-E202	VxVM DMP	Direct/ via switch	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Yes	-	-	-	-	-	Supported	_	
		VxVM DMP + Storage Cluster	via switch *11	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	No	-	-	-	-	-	Supported 6.1.1	-	
		EMPD	Direct/ via switch	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
	PY-FC311/PY-FC312/	EMPD + Storage Cluster *8	via switch *11	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	No	Planned 2	Supported	Planned 2	Planned 2	Supported	-	Planned 2	
	S26361-F5313-L501 S26361-F5313-E1	OS bundled	Direct/	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Supported	
	S26361-F5313-E201 S26361-F5313-L502	OS bundled + Storage Cluster *8	via switch  dled + luster *8  via switch *11	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	No	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
	S26361-F5313-E2 S26361-F5313-E202	VxVM DMP	Direct/ via switch	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Yes	-	-	-	-	-	Supported	-	
Red Hat Enterprise Linux		VxVM DMP + Storage Cluster	via switch *11	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	No	-	-	-	-	-	Supported 6.1.1	-	
(x86/Intel64) RHEL6 & KVM		EMPD	Direct/ via switch	Supported 6.3 to 6.10	Planned 2	Supported 6.3 to 6.10	Planned 2	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
		EMPD + Storage Cluster *8	via switch *11	Supported 6.3 to 6.9	Planned 2	Supported 6.3 to 6.9	Planned 2	No	Planned 2	Supported	Planned 2	Planned 2	Supported	-	Planned 2	
	PY-FC211/PY-FC212 PG-FC205/PG-FC206	OS bundled	Direct/ via switch	Supported 6.3 to 6.10	Planned 2	Supported 6.3 to 6.10	Planned 2	Yes	Supported	Supported	Supported	Planned 2	Supported	-	Supported	
	S26361-F3631-L1/ S26361-F3631-L2	OS bundled + Storage Cluster *8	via switch *11	Supported 6.3 to 6.9	Planned 2	Supported 6.3 to 6.9	Planned 2	No	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
		VxVM DMP	Direct/ via switch	Supported 6.3 to 6.9	Planned 2	Supported 6.3 to 6.9	Planned 2	Yes	-	-	-	-	-	Supported	-	
		VxVM DMP + Storage Cluster	via switch *11	Supported 6.3 to 6.9	Planned 2	Supported 6.3 to 6.9	Planned 2	No	-	-	-	-	-	Supported 6.1.1	-	
		EMPD		Supported 6.3 to 6.7	Planned 2	Supported 6.3 to 6.7	Planned 2	Yes	Supported	Planned 2	Supported	Planned 2	Supported	-	Planned 2	
		EMPD + Storage Cluster *8	1	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	PY-CN202	OS bundled	FCoF switch	Supported 6.3 to 6.7	Planned 2	Supported 6.3 to 6.7	Planned 2	Yes	Supported	Planned 2	Supported	Planned 2	Supported	-	Supported	
	PG-292B S26361-F3592-L2	OS bundled + Storage Cluster *8	FCoE switch  led + *11  where *8  where *8  where *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
		VxVM DMP		Supported 6.3 to 6.7	Planned 2	Supported 6.3 to 6.7	Planned 2	Yes	-	-	-	-	-	Supported	-	
		VxVM DMP + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	_	
		EMPD		Supported 6.3 to 6.10	Planned 2	Supported 6.3 to 6.10	Planned 2	Yes	Supported	Planned 2	Supported	Planned 2	Supported	-	Planned 2	
	PY-CN3A1/	EMPD + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	PY-CN3A1/ Storage Cluster *8 PYBCN3A1/PYBCN3A1L S26361-F5539-L501 OS bundled	FCoF switch	Supported 6.3 to 6.10	Planned 2	Supported 6.3 to 6.10	Planned 2	Yes	Supported	Planned 2	Supported	Planned 2	Supported	-	Supported		
	S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211	OS bundled + Storage Cluster *8	FCoE switch  8 bundled + *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	S26361-F5539-E211	VxVM DMP		Supported 6.3 to 6.9	Planned 2	Supported 6.3 to 6.9	Planned 2	Yes	-	-	-	-	-	Supported	_	
		VxVM DMP + Storage Cluster	1	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	_	
ا I PCL's I/O Fencing function is u				I							l				<u>.                                    </u>	

<sup>\*1</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.
\*5 Veritas Storage Foundation does not support x86 architecture.
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\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

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<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Stora	nge						Cluste	er			
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	PCL 4.3 to 4.5 *1	Oracle RAC /SEHA 11g R2/ 12c R1/12c R2 18c/19c	LifeKeeper V8.4 or later *7 (except DX8900 S4)	RHEL HA	CLUSTER PRO X 3.1 or later 4.0 or later (except DX8900 S4)	VCS *5 6.0/6.1/6.2 Veritas InfoScale Availability 7.0/7.1/7.3.1	ClusterPerfect V4.9 *14 (DX8900 S4は除く	Instruction for use
		EMPD		Supported 6.3 to 6.10	Planned 2	Supported 6.3 to 6.10	Planned 2	Yes	Supported	Planned 2	Supported	Planned 2	Supported	-	Planned 2	
	PY-CN302/	EMPD + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501	OS bundled	FCoE switch	Supported 6.3 to 6.10	Planned 2	Supported 6.3 to 6.10	Planned 2	Yes	Supported	Planned 2	Supported	Planned 2	Supported	-	Supported	
	S26361-F5250-E1 S26361-F5250-E201	OS bundled + Storage Cluster *8	*11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	S26361-F5302-L211 S26361-F5302-E211	VxVM DMP		Supported 6.3 to 6.9	Planned 2	Supported 6.3 to 6.9	Planned 2	Yes	-	-	-	-	-	Supported	-	
		VxVM DMP + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	-	
		EMPD	Direct/ via switch	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Yes *3	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
		EMPD + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	Emulex LPe32000 / LPe32002	OS bundled	Direct/ via switch	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Yes *3	Supported	Supported	Supported	Planned 2	Supported	-	Supported	
	or OEM products *15	OS bundled + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
		VxVM DMP	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	Yes *3	-	-	-	-	-	Planned 2	-	
		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	-	
		EMPD	Direct/ via switch	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Yes *3	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
		EMPD + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	Emulex LPe31000 / LPe31002	OS bundled	Direct/ via switch	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Yes *3	Supported	Supported	Supported	Planned 2	Supported	-	Supported	
	or OEM products *15	OS bundled + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
Red Hat Enterprise Linux (x86/Intel64)		VxVM DMP	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	Yes *3	-	-	-	-	-	Planned 2	-	
RHEL6 & KVM		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	-	
		EMPD	Direct/ via switch	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Yes *3	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
		EMPD + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	QLe2740/QLe2742/QLe2764	OS bundled	Direct/ via switch	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Supported 6.7 to 6.10	Yes *3	Supported	Supported	Supported	Planned 2	Supported	-	Supported	
	or OEM products	OS bundled + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
		VxVM DMP	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	Yes *3	-	-	-	-	-	Planned 2	-	
		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	-	
		EMPD	Direct/ via switch	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Yes *3 *12	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
		EMPD + Storage Cluster *8	via switch *11	Supported 6.3 to 6.9	Supported 6.3 to 6.9	Supported 6.3 to 6.9	Supported 6.3 to 6.9	No	Planned 2	Supported	Planned 2	Planned 2	Supported	-	Planned 2	When upgrading HBA firmware, please follow
	Emulex	OS bundled	Direct/ via switch	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Yes *3 *12	Supported	Supported	Supported	Planned 2	Supported	-	Supported	the procedure below.  1. Disconnect FC cable
	LPe16000 / LPe16002 or OEM products	OS bundled + Storage Cluster *8	via switch *11	Supported 6.3 to 6.9	Supported 6.3 to 6.9	Supported 6.3 to 6.9	Supported 6.3 to 6.9	No	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	<ul><li>2. Upgrade HBA firmware</li><li>3. Power off server</li><li>4. Reconnect FC cable</li></ul>
		VxVM DMP	Direct/ via switch	Supported 6.3 to 6.9	Supported 6.3 to 6.9	Supported 6.3 to 6.9	Supported 6.3 to 6.9	Yes *3 *12	-	-	-	-	-	Supported	-	5. Power on server
		VxVM DMP + Storage Cluster	via switch *11	Supported 6.3 to 6.9	Supported 6.3 to 6.9	Supported 6.3 to 6.9	Supported 6.3 to 6.9	No	-	-	-	-	-	Supported 6.1.1	-	
		EMPD		Supported 6.3 to 6.7 6.8 or later is planned	Planned 2	Supported 6.3 to 6.7 6.8 or later is planned	Planned 2	Yes *3	-	Supported	Supported	Planned 2	Supported	-	Planned 2	
	Brocade Brocade 1860 *6	OS bundled	Direct/ via switch	Supported 6.3 to 6.7	Planned 2	Supported 6.3 to 6.7	Planned 2	Yes *3	-	Supported	Supported	Planned 2	Supported	-	Supported	
	or OEM products	VxVM DMP		6.8 or later is planned Supported 6.3 to 6.7 6.8 or later is planned	Planned 2	6.8 or later is planned Supported 6.3 to 6.7 6.8 or later is planned	Planned 2	Yes *3	-	-	-	-	-	Supported	_	

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<sup>\*1</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

\*3 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

\*5 Veritas Storage Foundation does not support x86 architecture.

\*6 Direct connection is supported only with 16Gbps CA.

<sup>\*7</sup> LifeKeeper does not support KVM.
\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.
\*12 SAN boot is supported on 16Gbps Link Speed only.
\*15 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

					Storage	Э						Cluste	er			
OS	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	PCL 4.3 to 4.5 *1	Oracle RAC /SEHA 11g R2/ 12c R1/12c R2 18c/19c	LifeKeeper V8.4 or later *7 (except DX8900 S4)	RHEL HA	CLUSTER PRO X 3.1 or later 4.0 or later (except DX8900 S4)	VCS *5 6.0/6.1/6.2 Veritas InfoScale Availability 7.0/7.1/7.3.1	ClusterPerfect V4.9 *14 (DX8900 S4は除く)	Instruction for use
		EMPD	Direct/ via switch	Supported 6.3 to 6.10	Planned 2	Supported 6.3 to 6.10	Planned 2	Yes *3	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
		EMPD + Storage Cluster *8	via switch *11	Supported 6.3 to 6.9	Planned 2	Supported 6.3 to 6.9	Planned 2	No	Planned 2	Supported	Planned 2	Planned 2	Supported	-	Planned 2	When upgrading HBA firmware, please follow
	Emulex LPe12000/LPe12002/	OS bundled	Direct/ via switch	Supported 6.3 to 6.10	Planned 2	Supported 6.3 to 6.10	Planned 2	Yes *3	Supported	Supported	Supported	Planned 2	Supported	-	Supported	the procedure below.  1. Disconnect FC cable
	LPe1250 or OEM products	OS bundled + Storage Cluster *8	via switch *11	Supported 6.3 to 6.9	Planned 2	Supported 6.3 to 6.9	Planned 2	No	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	<ul><li>-2. Upgrade HBA firmware</li><li>3. Power off server</li><li>4. Reconnect FC cable</li></ul>
		VxVM DMP	Direct/ via switch	Supported 6.3 to 6.9	Planned 2	Supported 6.3 to 6.9	Planned 2	Yes *3	-	-	-	-	-	Supported	-	5. Power on server
		VxVM DMP + Storage Cluster	via switch *11	Supported 6.3 to 6.9	Planned 2	Supported 6.3 to 6.9	Planned 2	No	-	-	-	-	-	Supported 6.1.1	-	
		EMPD	Direct/ via switch	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Yes *3	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
	QLogic QLE2690/ QLE2692/ QLE2694	EMPD + Storage Cluster *8	via switch *11	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	No	Planned 2	Supported	Planned 2	Planned 2	Supported	-	Planned 2	
		OS bundled	Direct/ via switch	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Yes *3	Supported	Supported	Supported	Planned 2	Supported	-	Supported	
		OS bundled + Storage Cluster *8	via switch *11	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	No	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
		VxVM DMP	Direct/ via switch	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Yes *3	-	-	-	-	-	Supported	-	
Red Hat Enterprise Linux (x86/Intel64)		VxVM DMP + Storage Cluster	via switch *11	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	No	-	-	-	-	-	Supported 6.1.1	-	
RHEL6 & KVM		EMPD	Direct/ via switch	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Yes *3	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
		EMPD + Storage Cluster *8	via switch *11	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	No	Planned 2	Supported	Planned 2	Planned 2	Supported	-	Planned 2	
	Qlogic QLE2660/QLE2662	OS bundled	Direct/ via switch	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Supported 6.4 to 6.10	Yes *3	Supported	Supported	Supported	Planned 2	Supported	-	Supported	
	QLE2670/QLE2672 or OEM products	OS bundled + Storage Cluster *8	via switch *11	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	No	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
		VxVM DMP	Direct/ via switch	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Yes *3	-	-	-	-	-	Supported	-	
		VxVM DMP + Storage Cluster	via switch *11	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	Supported 6.4 to 6.9	No	-	-	-	-	-	Supported 6.1.1	-	
		EMPD	Direct/ via switch	Supported 6.3 to 6.10	Planned 2	Supported 6.3 to 6.10	Planned 2	Yes *3	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
		EMPD + Storage Cluster *8	via switch *11	Supported 6.3 to 6.9	Planned 2	Supported 6.3 to 6.9	Planned 2	No	Planned 2	Supported	Planned 2	Planned 2	Supported	-	Planned 2	
	QLogic QLE2560/QLE2562	OS bundled	Direct/ via switch	Supported 6.3 to 6.10	Planned 2	Supported 6.3 to 6.10	Planned 2	Yes *3	Supported	Supported	Supported	Planned 2	Supported	-	Supported	
	or OEM products	OS bundled + Storage Cluster *8	via switch *11	Supported 6.3 to 6.9	Planned 2	Supported 6.3 to 6.9	Planned 2	No	Supported	Supported	Supported	Planned 2	Supported	-	Planned 2	
		VxVM DMP	Direct/ via switch	Supported 6.3 to 6.9	Planned 2	Supported 6.3 to 6.9	Planned 2	Yes *3	-	-	-	-	-	Supported	-	
		VxVM DMP + Storage Cluster	via switch *11	Supported 6.3 to 6.9	Planned 2	Supported 6.3 to 6.9	Planned 2	No	-	-	-	-	-	Supported 6.1.1	-	

\*1 PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

\*3 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

\*5 Veritas Storage Foundation does not support x86 architecture.

\*7 LifeKeeper does not support KVM.

\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

		T			Storaç	ge						Cluste	r		I	
OS	HBA	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	PCL	Oracle RAC /SEHA 11g R2/ 12c R1/12c R2 18c/19c	LifeKeeper V8.4 or later *7 (except DX8900 S4)	RHEL HA	CLUSTER PRO X 3.1 or later 4.0 or later (except DX8900 S4)	VCS *5 6.0/6.1/6.2 Veritas InfoScale Availability 7.0/7.1/7.3.1	ClusterPerfect V4.9 *14 (DX8900 S4は除く)	Instruction for use
		EMPD		Supported 6.3 to 6.7	Planned 2	Supported 6.3 to 6.7	Planned 2	Yes *3	-	Planned 2	Supported	Planned 2	Supported	-	Planned 2	
		EMPD + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	No	-	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	Emulex	OS bundled	FCoE switch	Supported 6.3 to 6.7	Planned 2	Supported 6.3 to 6.7	Planned 2	Yes *3	-	Planned 2	Supported	Planned 2	Supported	-	Supported	
	OCe10102 or OEM products	OS bundled + Storage Cluster *8	*11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
		VxVM DMP		Supported 6.3 to 6.7	Planned 2	Supported 6.3 to 6.7	Planned 2	Yes *3	-	-	-	-	-	Supported	-	
		VxVM DMP + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	-	
		EMPD		Supported 6.3 to 6.10	Planned 2	Supported 6.3 to 6.10	Planned 2	Yes *3	-	Planned 2	Supported	Planned 2	Supported	-	Planned 2	
		EMPD + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	No	-	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	Emulex OCo14404B	OS bundled	FCoE switch	Supported 6.3 to 6.10	Planned 2	Supported 6.3 to 6.10	Planned 2	Yes *3	-	Planned 2	Supported	Planned 2	Supported	-	Supported	
	OCe14401B or OEM products	OS bundled + Storage Cluster *8	*11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
		VxVM DMP		Supported 6.3 to 6.9	Planned 2	Supported 6.3 to 6.9	Planned 2	Yes *3	-	-	-	-	-	Supported	-	
		VxVM DMP + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	-	
Red Hat Enterprise Linux (x86/Intel64)		EMPD		Supported 6.3 to 6.10	Planned 2	Supported 6.3 to 6.10	Planned 2	Yes *3	-	Planned 2	Supported	Planned 2	Supported	-	Planned 2	
RHEL6 & KVM		EMPD + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	No	-	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
	Emulex OCe14102	OS bundled	FCoE switch	Supported 6.3 to 6.10	Planned 2	Supported 6.3 to 6.10	Planned 2	Yes *3	-	Planned 2	Supported	Planned 2	Supported	-	Supported	
	or OEM products	OS bundled + Storage Cluster *8	*11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
		VxVM DMP		Supported 6.3 to 6.9	Planned 2	Supported 6.3 to 6.9	Planned 2	Yes *3	-	-	-	-	-	Supported	-	
		VxVM DMP + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	-	
		EMPD		Supported 6.3 to 6.7 6.8 or later is planned	Planned 2	Supported 6.3 to 6.7 6.8 or later is planned	Planned 2	Yes *3	-	Supported	Supported	Planned 2	Supported	-	Planned 2	
	Brocade Brocade 815/825 or OEM products	OS bundled	via switch	Supported 6.3 to 6.7 6.8 or later is planned	Planned 2	Supported 6.3 to 6.7 6.8 or later is planned	Planned 2	Yes *3	-	Supported	Supported	Planned 2	Supported	-	Supported	
		VxVM DMP		Supported 6.3 to 6.7 6.8 or later is planned	Planned 2	Supported 6.3 to 6.7 6.8 or later is planned	Planned 2	Yes *3	-	-	-	-	-	Supported	-	
		EMPD		Supported 6.3 to 6.7 6.8 or later is planned	N.A.	Supported 6.3 to 6.7 6.8 or later is planned	N.A.	Yes *3	-	Supported	Supported	Planned 2	Supported	<u>-</u>	Planned 2	
	Brocade Brocade 415/425 or OEM products	OS bundled	via switch	Supported 6.3 to 6.7 6.8 or later is planned	N.A.	Supported 6.3 to 6.7 6.8 or later is planned	N.A.	Yes *3	-	Supported	Supported	Planned 2	Supported	-	Supported	
		VxVM DMP		Supported 6.3 to 6.7 6.8 or later is planned	N.A.	Supported 6.3 to 6.7 6.8 or later is planned	N.A.	Yes *3	-	-	-	-	-	Supported	-	

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

\*5 Veritas Storage Foundation does not support x86 architecture.

\*7 LifeKeeper does not support KVM.

\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

\*11 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Stora	ge					Clu	ıster			
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX8900 S4 (FC 16Gbps port)	DX8900 S4 (FC 32Gbps port)	SAN boot	PCL 4.2/4.3 *1	Oracle RAC 11g R2	LifeKeeper V8.4 or later *7 (except DX8900 S4)	RHEL HA	CLUSTER PRO X 3.1 or later	VCS *5 *10 5.1/6.0/6.1	Instruction for use
		EMPD	Direct/ via switch	Supported 5.11/5.10/5.9	Planned 2	Supported 5.11/5.10/5.9	Planned 2	Yes	Supported	-	-	-	-	-	
		EMPD + Storage Cluster *8	via switch *11	Supported 5.11/5.10/5.9	Planned 2	Supported 5.11/5.10/5.9	Planned 2	No	Planned 2	-	-	-	-	-	
	MC-0JFC11/MC-0JFC21	OS bundled	Direct/ via switch	Supported 5.11/5.10/5.9	Planned 2	Supported 5.11/5.10/5.9	Planned 2	Yes	Supported	-	-	-	-	-	
		OS bundled + Storage Cluster *8	via switch *11	Supported 5.11/5.10/5.9	Planned 2	Supported 5.11/5.10/5.9	Planned 2	No	Planned 2	-	-	-	-	-	
		VxVM	Direct/ via switch	Supported 5.11/5.10/5.9	Planned 2	Supported 5.11/5.10/5.9	Planned 2	*4	-	-	-	-	-	Supported	
		EMPD	Direct/ via switch	Supported 5.10/5.11	Supported 5.10/5.11	Supported 5.10/5.11	Supported 5.10/5.11	Yes *3*12	Supported	Supported	Supported	Planned 2	Planned 2	-	
		EMPD + Storage Cluster *8	via switch *11	Supported 5.10/5.11	Supported 5.10/5.11	Supported 5.10/5.11	Supported 5.10/5.11	No	Supported	Supported	Planned 2	Planned 2	Planned 2	-	
	PY-FC221/PY-FC222/ S26361-F4994-L501/	OS bundled	Direct/ via switch	Supported 5.10/5.11	Supported 5.10/5.11	Supported 5.10/5.11	Supported 5.10/5.11	Yes *3*12	Supported	Supported	Supported	Planned 2	Planned 2	-	
	S26361-F4994-L502	OS bundled + Storage Cluster *8	via switch *11	Supported 5.10/5.11	Supported 5.10/5.11	Supported 5.10/5.11	Supported 5.10/5.11	No	Supported	Supported	Supported	Planned 2	Planned 2	-	
		VxVM DMP	Direct/ via switch	Supported 5.10/5.11	Supported 5.10/5.11	Supported 5.10/5.11	Supported 5.10/5.11	Yes *3*4 *12	-	-	-	-	-	Supported	
		VxVM DMP + Storage Cluster	via switch *11	Supported 5.10/5.11	Supported 5.10/5.11	Supported 5.10/5.11	Supported 5.10/5.11	No	-	-	-	-	-	Supported 6.1.1	
		EMPD		Supported 5.10/5.11	Supported 5.10/5.11	Supported 5.10/5.11	Supported 5.10/5.11	Yes *12	Supported	Supported	Supported	Planned 2	Planned 2	-	
		EMPD + Storage Cluster *8		Supported 5.10/5.11	Supported 5.10/5.11	Supported 5.10/5.11	Supported 5.10/5.11	No	Supported	Supported	Planned 2	Planned 2	Planned 2	-	
De dillet Entermise Linear	PY-FCD12/ PYBFCD121/PYBFCD122 S26361-F4994-E402/	OS bundled	Switch blade	Supported 5.10/5.11	Supported 5.10/5.11	Supported 5.10/5.11	Supported 5.10/5.11	Yes *12	Supported	Supported	Supported	Planned 2	Planned 2	-	
Red Hat Enterprise Linux (x86/Intel64) RHEL 5	\$26361-F4994-L402 *12	OS bundled + Storage Cluster *8	Owiton blade	Supported 5.10/5.11	Supported 5.10/5.11	Supported 5.10/5.11	Supported 5.10/5.11	No	Supported	Supported	Supported	Planned 2	Planned 2	-	
		VxVM DMP		Supported 5.10/5.11	Supported 5.10/5.11	Supported 5.10/5.11	Supported 5.10/5.11	Yes *4 *12	-	-	-	-	-	Supported	
		VxVM DMP + Storage Cluster		Supported 5.10/5.11	Supported 5.10/5.11	Supported 5.10/5.11	Supported 5.10/5.11	No	-	-	-	-	-	Supported 6.1.1	
		EMPD	Direct/ via switch	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	Yes	Supported	Supported	Supported	Planned 2	Planned 2	-	
		EMPD + Storage Cluster *8	via switch *11	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	No	Supported	Supported	Planned 2	Planned 2	Planned 2	-	
	PY-FC201/PY-FC202 PG-FC203/PG-FC204	OS bundled	Direct/ via switch	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	Yes	Supported	Supported	Supported	Planned 2	Planned 2	-	
	S26361-F3961-L1/ S26361-F3961-L2	OS bundled + Storage Cluster *8	via switch *11	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	No	Supported	Supported	Supported	Planned 2	Planned 2	-	
		VxVM DMP	Direct/ via switch	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	*4	-	-	-	-	-	Supported	
		VxVM DMP + Storage Cluster	via switch *11	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	No	-	-	-	-	-	Supported 6.1.1	
		EMPD		Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	Yes	Supported	Supported	Supported	Planned 2	Planned 2	-	
		EMPD + Storage Cluster *8		Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	No	Supported	Supported	Planned 2	Planned 2	Planned 2	-	
	PY-FCD02 PG-FCD202	OS bundled	Switch blade/	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	Yes	Supported	Supported	Supported	Planned 2	Planned 2	-	
	S26361-F3874-L1	OS bundled + Storage Cluster *8	Pass-through blade	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	No	Supported	Supported	Supported	Planned 2	Planned 2	-	
	020301-F3074-L1	VxVM DMP		Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	*4	-	-	-	-	-	Supported	
		VxVM DMP + Storage Cluster		Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	No	-	-	-	-	-	Supported 6.1.1	

<sup>\*1</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.
\*3 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*4</sup> SAN boot is "Yes" on Veritas Storage Foundation 6.0 or later, but "No" on 5.1. \*5 Veritas Storage Foundation does not support x86 architecture.

<sup>\*7</sup> LifeKeeper does not support KVM.

\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

\*10 Thin provisioning function of ETERNUS is not supported on Veritas Storage Foundation 5.1.

<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.
\*12 SAN boot is supported on 16Gbps Link Speed only.

					Stora	ge					Clu	ıster			
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX8900 S4 (FC 16Gbps port)	DX8900 S4 (FC 32Gbps port)	SAN boot	PCL 4.2/4.3 *1	Oracle RAC 11g R2	LifeKeeper V8.4 or later *7 (except DX8900 S4)	RHEL HA	CLUSTER PRO X 3.1 or later (except DX8900 S4)	VCS *5*10 5.1/6.0/6.1	Instruction for use
		EMPD	Direct/ via switch	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	Yes	Supported	Supported	Supported	Planned 2	Planned 2	-	
		EMPD + Storage Cluster *8	via switch *11	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	No	Supported	Supported	Planned 2	Planned 2	Planned 2	-	
	PY-FC211/PY-FC212 PG-FC205/PG-FC206	OS bundled	Direct/ via switch	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	Yes	Supported	Supported	Supported	Planned 2	Planned 2	-	
	S26361-F3631-L1/ S26361-F3631-L2	OS bundled + Storage Cluster *8	via switch *11	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	No	Supported	Supported	Supported	Planned 2	Planned 2	-	
		VxVM DMP	Direct/ via switch	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	*4	-	-	-	-	-	Supported	
		VxVM DMP + Storage Cluster	via switch *11	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	No	-	-	-	-	-	Supported 6.1.1	
		EMPD		Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	Yes	Supported	Planned 2	Supported	Planned 2	Planned 2	-	
		EMPD + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	
	PY-CN202 PG-292B	OS bundled	FCoE switch	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	Yes	Supported	Planned 2	Supported	Planned 2	Planned 2	-	
	S26361-F3592-L2	OS bundled + Storage Cluster *8	*11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	
		VxVM DMP		Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	*4	-	-	-	-	-	Supported	
		VxVM DMP + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	
		EMPD	Direct/ via switch	Supported 5.10/ 5.11	Supported 5.10/ 5.11	Supported 5.10/ 5.11	Supported 5.10/ 5.11	Yes *3 *12	Supported	Supported	Supported	Planned 2	Supported	-	
Red Hat Enterprise Linux (x86/Intel64) RHEL5		EMPD + Storage Cluster *8	via switch *11	Supported 5.10/ 5.11	Supported 5.10/ 5.11	Supported 5.9 to 5.11	Supported 5.10/ 5.11	No	Supported	Supported	Planned 2	Planned 2	Planned 2	-	–When upgrading HBA firmware, please follow the procedure below.
	Emulex LPe16000 / LPe16002	OS bundled	Direct/ via switch	Supported 5.10/ 5.11	Supported 5.10/ 5.11	Supported 5.10/ 5.11	Supported 5.10/ 5.11	Yes *3 *12	Supported	Supported	Supported	Planned 2	Supported	-	Disconnect FC cable     Upgrade HBA firmware
	or OEM products	OS bundled + Storage Cluster *8	via switch *11	Supported 5.10/ 5.11	Supported 5.10/ 5.11	Supported 5.9 to 5.11	Supported 5.10/ 5.11	No	Supported	Supported	Supported	Planned 2	Supported	-	3. Power off server 4. Reconnect FC cable 5. Power on server
		VxVM DMP	Direct/ via switch	Supported 5.10/ 5.11	Supported 5.10/ 5.11	Supported 5.10/ 5.11	Supported 5.10/ 5.11	Yes *4 *12	-	-	-	-	-	Supported	5. Fower on server
		VxVM DMP + Storage Cluster	via switch *11	Supported 5.10 to 5.11	Supported 5.10 to 5.11	Supported 5.9 to 5.11	Supported 5.10 to 5.11	No	-	-	-	-	-	Supported 6.1.1	
	Duocada	EMPD		Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	Yes *3	-	Supported	Supported	Planned 2	Supported	-	
	Brocade Brocade 1860 *6 or OEM products	OS bundled	Direct/ via switch	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	Yes *3	-	Supported	Supported	Planned 2	Supported	-	
	·	VxVM DMP		Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	*4	-	-	-	-	-	Supported	
		EMPD	Direct/ via switch	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	Yes *3	Supported	Supported	Supported	Planned 2	Supported	-	
		EMPD + Storage Cluster *8	via switch *11	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	No	Supported	Supported	Planned 2	Planned 2	Planned 2	-	When upgrading HBA firmware, please follow the procedure below.
	Emulex LPe12000/LPe12002/	OS bundled	Direct/ via switch	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	Yes *3	Supported	Supported	Supported	Planned 2	Supported	-	<ol> <li>Disconnect FC cable</li> <li>Upgrade HBA firmware</li> </ol>
	LPe1250 or OEM products	OS bundled + Storage Cluster *8	via switch *11	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	No	Supported	Supported	Supported	Planned 2	Supported	-	3. Power off server 4. Reconnect FC cable 5. Power on server
		VxVM DMP	Direct/ via switch	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	*4	-	-	-	-	-	Supported	S. I SWOI SII SSIVEI
		VxVM DMP + Storage Cluster	via switch *11	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	No	-	-	-	-	-	Supported 6.1.1	

<sup>\*1</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*4</sup> SAN boot is "Yes" on Veritas Storage Foundation 6.0 or later, but "No" on 5.1.

<sup>\*5</sup> Veritas Storage Foundation does not support x86 architecture. \*6 Direct connection is supported only with 16Gbps CA.

<sup>\*7</sup> LifeKeeper does not support KVM.

<sup>\*8</sup> Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

\*10 Thin provisioning function of ETERNUS is not supported on Veritas Storage Foundation 5.1.

<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*12</sup> SAN boot is supported on 16Gbps Link Speed only.

					Stora	ge					Clu	ster			
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX8900 S4 (FC 16Gbps port)	DX8900 S4 (FC 32Gbps port)	SAN boot	PCL 4.2/4.3 *1	Oracle RAC 11g R2	LifeKeeper V8.4 or later *7 (except DX8900 S4)	RHEL HA	CLUSTER PRO X 3.1 or later (except DX8900 S4)	VCS *5*10 5.1/6.0/6.1	Instruction for use
		EMPD	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	Yes *3	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	
		EMPD + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	
	QLogic QLE2660/QLE2662	OS bundled	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	Yes *3	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	
	QLE2670/QLE2672 or OEM products	OS bundled + Storage Cluster *8	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	
		VxVM DMP	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	*4	-	-	-	-	-	Planned 2	
		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	
		EMPD	Direct/ via switch	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	Yes *3	Supported	Supported	Supported	Planned 2	Supported	-	
		EMPD + Storage Cluster *8	via switch *11	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	No	Supported	Supported	Planned 2	Planned 2	Planned 2	-	
		OS bundled	Direct/ via switch	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	Yes *3	Supported	Supported	Supported	Planned 2	Supported	-	
		OS bundled + Storage Cluster *8	via switch *11	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	No	Supported	Supported	Supported	Planned 2	Supported	-	
		VxVM DMP	Direct/ via switch	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	*4	-	-	-	-	-	Supported	
Red Hat Enterprise Linux (x86/Intel64)		VxVM DMP + Storage Cluster	via switch *11	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	No	-	-	-	-	-	Supported 6.1.1	
RHEL5		EMPD		Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	Yes *3	Supported	Planned 2	Supported	Planned 2	Supported	-	
		EMPD + Storage Cluster *8		Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	
	Emulex OCe10102	OS bundled	FCoE switch	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	Yes *3	Supported	Planned 2	Supported	Planned 2	Supported	-	
	or OEM products	OS bundled + Storage Cluster *8	*11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	
		VxVM DMP		Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	*4	-	-	-	-	-	Supported	
		VxVM DMP + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	-	-	-	Planned 2	
	Б	EMPD		Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	Yes *3	-	Supported	Supported	Planned 2	Supported	-	
	Brocade Brocade 815/825 or OEM products	OS bundled	via switch	Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	Yes *3	-	Supported	Supported	Planned 2	Supported	-	
		VxVM DMP		Supported 5.9 to 5.11	Planned 2	Supported 5.9 to 5.11	Planned 2	*4	-	-	-	-	-	Supported	
		EMPD		Supported 5.9 to 5.11	N.A.	Supported 5.9 to 5.11	N.A.	Yes *3	-	Supported	Supported	Planned 2	Supported	-	
	Brocade Brocade 415/425 or OEM products	OS bundled	via switch	Supported 5.9 to 5.11	N.A.	Supported 5.9 to 5.11	N.A.	Yes *3	-	Supported	Supported	Planned 2	Supported	-	
	o. OEM products	VxVM DMP		Supported 5.9 to 5.11	N.A.	Supported 5.9 to 5.11	N.A.	*4	-	-		-	-	Supported	

<sup>\*1</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

OS	НВА	Path Failover	Connected type	Storage  DX S3 series  AF series/DX200F  (except AF S3 series)	SAN boot	Instruction for use
Red Hat Enterprise Linux (Linux on Power) RHEL 6	5735/5273	OS bundled	Direct/via switch	Supported 6.5	Yes *3	

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*4</sup> SAN boot is "Yes" on Veritas Storage Foundation 6.0 or later, but "No" on 5.1. \*5 Veritas Storage Foundation does not support x86 architecture.

<sup>\*7</sup> LifeKeeper does not support KVM.

\*8 Please set "Split mode" of Storage Cluster to "Read/Write (Default value)".

\*10 Thin provisioning function of ETERNUS is not supported on Veritas Storage Foundation 5.1.

## RHEL (iSCSI connection) Edition 183: 2023/12/22

#### Notes

- Please contact the server supplier for the server support status of OS, multipath software, HBA and clusterware listed here.
- Please contact the product supplier for operating condition of multipath software and HBA listed here.
- Please use the latest version of HBA firmware and driver unless note is stated.
- Please use the latest version of server BIOS unless note is stated.
- Please contact the clusterware supplier for combination of Server, OS version, multipath software, HBA, and clusterware version.
- Direct connection with NIC/CNA of which speed is 25Gbps or more is not supported.
- On Oracle Linux and SUSE Linux Enterprise Server environment, UNMAP function is not supported on Deduplication/Compression volume.
- Trademark symbols have been omitted from this document.
- HBA for PRIMEQUEST is shown as MC-0JCEn\*, the character "\*" can be any character applicable. Ex) MC-0JCE6\* means MC-0JCE61 and MC-0JCE62 are applicable.
- Storage Cluster function is not supported on DX60 S5/S4/S3.
- In this document, the following abbreviations are used;

**EMPD (ETERNUS Multipath Driver), PCL (PRIMECLUSTER)** 

	iSCSI			Connected	Storage	iSCSI	Cluster	
OS	Initiator type	NIC or HBA	Path Failover	type	DX S5/S4/S3 series AF series/DX200F	boot	PCL 4.6 *1	
			EMPD	Direct / via switch *3	Supported 9.2 *11	No	Planned 2	
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	
		NIC for PRIMEQUEST 4000	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	
		*2	OS bundled	Direct / via switch *3	Supported 9.2 *11	No	Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported 9.2 *11	No	Planned 2	
Red Hat Enterprise Linux	Software		OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	
(Intel64) RHEL9 & KVM	Initiator		EMPD	Direct / via switch *3	Supported 9.0/9.2 *11	No	Planned 2	
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	
		NIC for PRIMEQUEST 3000	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	
		*2	OS bundled	Direct / via switch *3	Supported 9.0/9.2 *11	No	Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported 9.2 *11	No	Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	

<sup>\*1</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

<sup>\*2</sup> Please contact server supplier about available NIC and CNA.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*4</sup> LifeKeeper does not support KVM.

<sup>\*9</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

\*11 When using Red Hat Enterprise Linux 8.4 or later, use the following storage firmware.

DX S5 series / AF S3 series / DX8900 S4: V11L50-1000 or later

DX S4 / S3 series (excluding DX8900 S4) AF series / DX200F (excluding AF S3 series): V10L91-1000 or later

	iSCSI			_	Storage			Cluster		
os	Initiator type	NIC or HBA	Path Failover	Connected type	DX S5/S4/S3 series AF series/DX200F	iSCSI boot	PCL 4.6 *1	Oracle RAC /SEHA 19c/21c	LifeKeeper v9.4 or later *4 (except DX8900 S4)	Instruction for use
			EMPD	Direct / via switch *3	Supported 9.0/9.2 *11	No	Planned 2	Planned 2	Planned 2	
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	*9
Red Hat Enterprise Linux (Intel64)	Software	NIC and CNA for PRIMERGY	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	N.A.	N.A.	
RHEL9 & KVM	Initiator	*2	OS bundled	Direct / via switch *3	Supported 9.0/9.2 *11	No	Planned 2	Planned 2	Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported 9.2 *11	No	Planned 2	Planned 2	Planned 2	*9
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	N.A.	N.A.	

<sup>\*1</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

<sup>\*2</sup> Please contact server supplier about available NIC and CNA.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*4</sup> LifeKeeper does not support KVM.

<sup>\*9</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

<sup>\*11</sup> When using Red Hat Enterprise Linux 8.4 or later, use the following storage firmware.

DX S5 series / AF S3 series / DX8900 S4: V11L50-1000 or later

DX S4 / S3 series (excluding DX8900 S4) AF series / DX200F (excluding AF S3 series): V10L91-1000 or later

	iSCSI			_	Storage			Cluster		
os	Initiator type	NIC or HBA	Path Failover	Connected type	DX S5/S4/S3 series AF series/DX200F	iSCSI boot	PCL 4.6 *1	Oracle RAC /SEHA 19c/21c	LifeKeeper v9.4 or later *4 (except DX8900 S4)	Instruction for use
			EMPD	Direct / via switch *3	Supported 9.0 *11	No	Planned 2	Planned 2	Planned 2	
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	*9
Red Hat Enterprise Linux (Intel64)	Software	NIC / CNA	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	N.A.	N.A.	
RHEL9 & KVM	Initiator	*2	OS bundled	Direct / via switch *3	Supported 9.0/9.2 *11	No	Planned 2	Planned 2	Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported 9.2 *11	No	Planned 2	Planned 2	Planned 2	*9
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	N.A.	N.A.	

<sup>\*1</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

DX S5 series / AF S3 series / DX8900 S4: V11L50-1000 or later

DX S4 / S3 series (excluding DX8900 S4) AF series / DX200F (excluding AF S3 series): V10L91-1000 or later

	iSCSI			Connected	Storage	iSCSI	Cluster	
os	Initiator type	NIC or HBA	Path Failover	type	DX S5/S4/S3 series AF series/DX200F	boot	PCL 4.3 to 4.5 *1	Instruction for use
			EMPD	Direct / via switch *3	Supported 8.1	No	Planned 2	
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	
Red Hat Enterprise Linux (Intel64)	Software	NIC for PRIMEQUEST 3000	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	No	N.A.	
RHEL8 & KVM	Initiator	*2	OS bundled	Direct / via switch *3	Supported 8.0	No	Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	No	N.A.	

<sup>\*1</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

<sup>\*2</sup> Please contact server supplier about available NIC and CNA.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*4</sup> LifeKeeper does not support KVM.

<sup>\*9</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

<sup>\*11</sup> When using Red Hat Enterprise Linux 8.4 or later, use the following storage firmware.

<sup>\*2</sup> Please contact server supplier about available NIC.

	iSCSI				Storage			Cluster		
os	Initiator type	NIC or HBA	Path Failover	Connected type	DX S5/S4/S3 series AF series/DX200F	iSCSI boot	PCL 4.6 *1	Oracle RAC /SEHA 19c/21c	LifeKeeper v9.4 or later *4 (except DX8900 S4)	Instruction for use
			EMPD	Direct / via switch *3	Supported 8.1 to 8.2/8.4/8.6/8.8 *10 *11	No	Supported	Supported	Supported	
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	*9
Red Hat Enterprise Linux	Software	NIC and CNA for PRIMERGY	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	N.A.	N.A.	
(Intel64) RHEL8 & KVM	Initiator	*2	OS bundled	Direct / via switch *3	Supported 8.0 to 8.2/8.4/8.6/8.8 *10 *11	No	Supported	Supported	Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported 8.6/8.8 *11	No	Supported	Supported	Planned 2	*9
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	N.A.	N.A.	

<sup>\*1</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

<sup>\*2</sup> Please contact server supplier about available NIC and CNA.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*4</sup> LifeKeeper does not support KVM.

<sup>\*9</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

<sup>\*10</sup> When connecting to Red Hat Enterprise Linux 8.4 for use, apply the advisory number RHBA-2021: 2772.

<sup>\*11</sup> When using Red Hat Enterprise Linux 8.4 or later, use the following storage firmware.

DX S5 series / AF S3 series / DX8900 S4: V11L50-1000 or later

DX S4 / S3 series (excluding DX8900 S4) AF series / DX200F (excluding AF S3 series): V10L91-1000 or later

	iSCSI				Storage			Cluster		
os	Initiator type	NIC or HBA	Path Failover	Connected type	DX S5/S4/S3 series AF series/DX200F	iSCSI boot	PCL 4.6 *1	Oracle RAC /SEHA 19c/21c	LifeKeeper v9.4 or later *4 (except DX8900 S4)	Instruction for use
			EMPD	Direct / via switch *3	Supported 8.1 to 8.2/8.4/8.6/8.8 *10 *11	No	Supported	Supported	Supported	
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	Planned 2	Planned 2	*9
Red Hat Enterprise Linux	Software	NIC / CNA	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	N.A.	N.A.	
(Intel64) RHEL8 & KVM	Initiator	*2	OS bundled	Direct / via switch *3	Supported 8.1 to 8.2/8.4/8.6/8.8 *10 *11	No	Supported	Supported	Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported 8.6/8.8 *11	No	Supported	Supported	Planned 2	*9
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	N.A.	N.A.	

<sup>\*1</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

<sup>\*2</sup> Please contact server supplier about available NIC and CNA.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*4</sup> LifeKeeper does not support KVM.

<sup>\*9</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

<sup>\*10</sup> When connecting to Red Hat Enterprise Linux 8.4 for use, apply the advisory number RHBA-2021: 2772.

<sup>\*11</sup> When using Red Hat Enterprise Linux 8.4 or later, use the following storage firmware.

DX S5 series / AF S3 series / DX8900 S4: V11L50-1000 or later

DX S4 / S3 series (excluding DX8900 S4) AF series / DX200F (excluding AF S3 series): V10L91-1000 or later

	iSCSI			Connected	Storage	iSCSI	Cluster	
OS	Initiator type	NIC or HBA	Path Failover	type	DX S5/S4/S3 series AF series/DX200F	boot	PCL 4.3/4.4 *1	Instruction for use
			EMPD	Direct / via switch *3	Supported 7.3 to 7.7	No	Supported	
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported 7.2/7.3	No	Supported 4.4/4.5	*9
		NIC for PRIMEQUEST 3000	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	
		*2	OS bundled	Direct / via switch *3	Supported 7.3 to 7.7	No	Supported	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported 7.2/7.3	No	Supported 4.4/4.5	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	No	N.A.	
			EMPD	Direct / via switch *3	Supported 7.2 to 7.7	No	Supported	
Red Hat Enterprise Linux (Intel64) RHEL7 & KVM	Software Initiator		EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported 7.2/7.3	No	Supported 4.4/4.5	*9
		NIC for PRIMEQUEST 2000	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	
		*2	OS bundled	Direct / via switch *3	Supported 7.2 to 7.7	No	Supported	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported 7.2/7.3	No	Supported 4.4/4.5	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	No	N.A.	
			EMPD	Direct / via switch *3	Supported 7.3	No	Supported	
		NIC for PRIMEQUEST 1000 *2	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	*9
*4 DOUG NO Fee sings for otion is used for			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	

<sup>\*1</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

<sup>\*2</sup> Please contact server supplier about available NIC.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*9</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

					Storage			Cluster		
os	iSCSI Initiator type	NIC or HBA	Path Failover	Connected type	DX S5/S4/S3 series AF series/DX200F	iSCSI boot	PCL 4.3 to 4.6 *1	Oracle RAC /SEHA 11g R2/12c R1/12c R2 18c/19c	LifeKeeper v8.4 or later *4 (except DX8900 S4)	Instruction for use
			EMPD	Direct / via switch *3	Supported 7.0 to 7.8	No	Supported	Supported	Supported *6	
Software Initiator		Software NIC and CNA for PRIMERGY *2	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported 7.2/7.3	No	Supported 4.4/4.5	Planned 2	Supported *5*6	*9
	Software		EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	N.A.	N.A.	
	Initiator		OS bundled	Direct / via switch *3	Supported 7.0 to 7.8	No	Supported	Supported	Supported *6	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported 7.2/7.3	No	Supported 4.4/4.5	Planned 2	Supported *5*6	*9
Red Hat Enterprise Linux (Intel64) RHEL7 & KVM			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	N.A.	N.A.	
KHEL/ & KVIVI		PY-CN202 PG-292B	EMPD	Direct /	Planned 2	Yes	Planned 2	Planned 2	Planned 2	
		PG-CND201 S26361-F3592-L2	OS bundled	via switch	Planned 2	163	Planned 2	Planned 2	Planned 2	
	Hardware	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501	EMPD	Direct /	Planned 2	Yes	Planned 2	Planned 2	Planned 2	
	Initiator	S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	OS bundled	via switch	Planned 2	165	Planned 2	Planned 2	Planned 2	
		PY-CND02 S26361-F3592-L532 BX92xS3 Onboard CNA	EMPD	Switch blade	Planned 2	Yes	Planned 2	Planned 2	Planned 2	
			OS bundled	- Switch blade	Planned 2	163	Planned 2	Planned 2	Planned 2	

<sup>\*1</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

<sup>\*2</sup> Please contact server supplier about available NIC and CNA.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*4</sup> LifeKeeper does not support KVM.

<sup>\*5</sup> Server Cluster may Failover when StorageCluster's Failover/Failback occurs. When Server Cluster does Failover, check Server Cluster status, and make Failback if necessary.

<sup>\*6</sup> ETERNUS's 10GBASE-T interface is not supported.

<sup>\*9</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

					Storage			Cluster		
os	iSCSI Initiator type	NIC or HBA	Path Failover	Connected type	DX S5/S4/S3 series AF series/DX200F	iSCSI boot	PCL 4.3 to 4.6 *1	Oracle RAC /SEHA 11g R2/ 12c R1/12c R2 18c/19c	LifeKeeper v8.4 or later *4 (except DX8900 S4)	Instruction for use
			EMPD	Direct / via switch *3	Supported 7.0 to 7.8	No	Supported	Supported	Supported *6	
	Software Intel NIC / CNA		EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported 7.2/7.3	No	Supported 4.4/4.5	Planned 2	Supported *5*6	*9
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	N.A.	N.A.	
Initiator	Initiator	*2	OS bundled	Direct / via switch *3	Supported 7.0 to 7.8	No	Supported	Supported	Supported *6	
Red Hat Enterprise Linux			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported 7.2/7.3	No	Supported 4.4/4.5	Planned 2	Supported *5*6	*9
(Intel64) RHEL7 & KVM			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	N.A.	N.A.	
		Emulex	EMPD	Direct /	Planned 2	Yes	Planned 2	Planned 2	Planned 2	
		OCe10102	OS bundled	via switch	Planned 2	163	Planned 2	Planned 2	Planned 2	
	Hardware	Emulex	EMPD	Direct /	Planned 2	Voo	Planned 2	Planned 2	Planned 2	
	Initiator		OS bundled	via switch	Planned 2	Yes	Planned 2	Planned 2	Planned 2	
	Emulex	EMPD	Direct /	Planned 2	Vac	Planned 2	Planned 2	Planned 2		
	OCe11102	OS bundled	via switch	Planned 2		Planned 2	Planned 2	Planned 2		

<sup>\*1</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

<sup>\*2</sup> Please contact server supplier about available NIC and CNA.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*4</sup> LifeKeeper does not support KVM.

<sup>\*5</sup> Server Cluster may Failover when StorageCluster's Failover/Failback occurs. When Server Cluster does Failover, check Server Cluster status, and make Failback if necessary.

<sup>\*6</sup> ETERNUS's 10GBASE-T interface is not supported.

<sup>\*9</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

	iSCSI				Storage		Cluster	
os	Initiator type	NIC or HBA	Path Failover	Connected type	DX S5/S4/S3 series AF series/DX200F	iSCSI boot	PCL 4.3/4.4 *1	Instruction for use
			EMPD	Direct / via switch *3	Supported 6.6 to 6.10	No	Supported	
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported 6.7/6.8/6.9	No	Planned 2	*9
	NIC for PRIMEQUEST 20		EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	
			OS bundled	Direct / via switch *3	Supported 6.7/6.8/6.9	No	Supported	
	Software Initiator		OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported 6.7/6.8/6.9	No	Planned 2	*9
Red Hat Enterprise Linux (x86/Intel64) RHEL6 & KVM			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	No	N.A.	
			EMPD	Direct / via switch *3	Supported 6.5/6.4/6.3	No	Supported	
		NIC for PRIMEQUEST 1000 *2	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	*9
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	
	Hardware MC-0JCE6*		EMPD	Direct /	Supported 6.6	No	Supported	
	Initiator	IVIC-UJCE6"	OS bundled	via switch *3	Planned 1 6.6	No	Planned 1	

<sup>\*1</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

<sup>\*2</sup> Please contact server supplier about available NIC.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used. \*9 At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

					Storage			Cluster		
OS	iSCSI Initiator type	NIC or HBA	Path Failover	Connected type	DX S5/S4/S3 series AF series/DX200F	iSCSI boot	PCL 4.3 to 4.5 *1	Oracle RAC 11g R2/ 12c R1/12c R2 18c/19c	LifeKeeper v8.4 or later *4 (except DX8900 S4)	Instruction for use
			EMPD	Direct / via switch *3	Supported 6.3 to 6.10	No	Supported	Supported	Supported *6	
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported 6.7/6.8/6.9	No	Planned 2	Planned 2	Supported *5*6	*9
	Software	NIC and CNA for PRIMERGY	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	N.A.	N.A.	
	Initiator *2		OS bundled	Direct / via switch *3	Supported 6.3 to 6.10	No	Supported	Supported	Supported *6	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported 6.7/6.8/6.9	No	Planned 2	Planned 2	Supported *5*6	*9
Red Hat Enterprise Linux (x86/Intel64)			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	N.A.	N.A.	
RHEL6 & KVM		PY-CN202 PG-292B	EMPD	Direct /	Planned 2	Yes	Planned 2	Planned 2	Planned 2	
		PG-CND201 S26361-F3592-L2	OS bundled	via switch	Planned 2	163	Planned 2	Planned 2	Planned 2	
	Hardware	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501	EMPD	Direct /	Planned 2	Vaa	Planned 2	Planned 2	Planned 2	
	Initiator		OS bundled	via switch	Planned 2	Yes	Planned 2	Planned 2	Planned 2	
	PY-CND02		EMPD	Switch blade	Planned 2	Vac	Planned 2	Planned 2	Planned 2	
	S26361-F3592-L532 BX92xS3 Onboard CNA		OS bundled	OS bundled Switch blade		Planned 2		Planned 2	Planned 2	

<sup>\*1</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

<sup>\*2</sup> Please contact server supplier about available NIC and CNA.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*4</sup> LifeKeeper does not support KVM.

<sup>\*5</sup> Server Cluster may Failover when StorageCluster's Failover/Failback occurs. When Server Cluster does Failover, check Server Cluster status, and make Failback if necessary.

<sup>\*6</sup> ETERNUS's 10GBASE-T interface is not supported.

<sup>\*9</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

					Storage			Cluster		
OS	iSCSI Initiator type	NIC or HBA	Path Failover	Connected type	DX S5/S4/S3 series AF series/DX200F	iSCSI boot	PCL 4.3 to 4.5 *1	Oracle RAC 11g R2/ 12c R1/12c R2 18c/19c	LifeKeeper v8.4 or later *4 (except DX8900 S4)	Instruction for use
			EMPD	Direct / via switch *3	Supported 6.3 to 6.10	No	Supported	Supported	Supported *6	
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported 6.7/6.8/6.9	No	Planned 2	Planned 2	Supported *5*6	*9
	Software Intel NIC / CNA		EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	N.A.	N.A.	
	Initiator	*2	OS bundled	Direct / via switch *3	Supported 6.3 to 6.10	N.A.	Supported	Supported	Supported *6	
Red Hat Enterprise Linux			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported 6.7/6.8/6.9	No	Planned 2	Planned 2	Supported *5*6	*9
(x86/Intel64) RHEL6 & KVM			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	N.A.	N.A.	
		Emulex	EMPD	Direct /	Planned 2	Yes	Planned 2	Planned 2	Planned 2	
		OCe10102	OS bundled	via switch	Planned 2	163	Planned 2	Planned 2	Planned 2	
	Hardware E	Emulex	EMPD	Direct /	Planned 2	Yes	Planned 2	Planned 2	Planned 2	
	Initiator OCe14102		via switch OS bundled		Planned 2	1 62	Planned 2	Planned 2	Planned 2	
	Emulex	Emulex	EMPD	Direct /	Planned 2	Yes	Planned 2	Planned 2	Planned 2	
	OCe11102	OCe11102	OS bundled	via switch	Planned 2	res	Planned 2	Planned 2	Planned 2	

<sup>\*1</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.
\*2 Please contact server supplier about available NIC and CNA.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*4</sup> LifeKeeper does not support KVM.

<sup>\*5</sup> Server Cluster may Failover when StorageCluster's Failover/Failback occurs. When Server Cluster does Failover, check Server Cluster status, and make Failback if necessary. \*6 ETERNUS's 10GBASE-T interface is not supported.

<sup>\*9</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

	10.001				Storage			Cluster		
os	iSCSI Initiator type	NIC or HBA	Path Failover	Connected type	DX S4/S3 series AF series/DX200F (except AF S3 series)	iSCSI boot	PCL 4.2/4.3 *1	Oracle RAC 11g R2	LifeKeeper v8.4 or later *4 (except DX8900 S4)	Instruction for use
Red Hat Enterprise Linux	Software	NIC for PRIMEQUEST 1000	EMPD	Direct /	Supported 5.10/5.9	No	Supported PCL 4.3 only	-	-	
(x86/Intel64) RHEL5	Initiator	*2	OS bundled	via switch *3	Supported 5.10/5.9	No	Supported PCL 4.3 only	-	-	
	Software	NIC and CNA for PRIMERGY	EMPD	Direct *10/	Supported 5.9 to 5.11	No	Supported	Supported	Supported *6	
	Initiator	*2	OS bundled	via switch *3	Supported 5.9 to 5.11	140	Supported	Supported	Supported *6	
		PY-CN202 PG-292B	EMPD	Direct /	Planned 2	Yes	Planned 2	Planned 2	Planned 2	
		PG-CND201 S26361-F3592-L2	OS bundled	via switch	Planned 2	100	Planned 2	Planned 2	Planned 2	
	PY-CN302U/PYBCN30 Hardware S26361-F5250-L501	PYBCN302/PYBCN302L PY-CN302U/PYBCN302U	EMPD	Direct /	Planned 2	Yes	Planned 2	Planned 2	Planned 2	
	Initiator	PY-CND02 S26361-F3592-L532 BX92xS3 Onboard CNA	OS bundled	via switch	Planned 2	103	Planned 2	Planned 2	Planned 2	
Red Hat Enterprise Linux			EMPD	Switch blade	Planned 2	Yes	Planned 2	Planned 2	Planned 2	
(x86/Intel64) RHEL5			OS bundled	CWIGH Blade	Planned 2	100	Planned 2	Planned 2	Planned 2	
	Software	Intel NIC / CNA	EMPD	Direct /	Supported 5.9 to 5.11	No	Supported	Supported	Supported *6	
	Initiator	*2	OS bundled	via switch *3	Supported 5.9 to 5.11	140	Supported	Supported	Supported *6	
		Emulex	EMPD	Direct /	Planned 2	Yes	Planned 2	Planned 2	Planned 2	
	Emulex OCe10102	OCe10102	OS bundled	via switch	Planned 2	103	Planned 2	Planned 2	Planned 2	
	Hardware Emulex OCe14102	1	EMPD	Direct /	Planned 2	Yes	Planned 2	Planned 2	Planned 2	
		OCe14102	OS bundled	via switch	Planned 2	103	Planned 2	Planned 2	Planned 2	
		I	EMPD	Direct /	Planned 2		Planned 2	Planned 2	Planned 2	
*1 PCL's I/O Fencing function is used for		OCe11102	OS bundled	via switch	Planned 2	Yes	Planned 2	Planned 2	Planned 2	

<sup>\*1</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.
\*2 Please contact server supplier about available NIC and CNA.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

\*4 LifeKeeper does not support KVM.

\*6 ETERNUS's 10GBASE-T interface is not supported.

### RHEL (SAS connection) Edition 183: 2023/12/22

### Notes

- Please contact the server supplier for the server support status of OS, multipath software, HBA and clusterware listed here.
- Please contact the product supplier for operating condition of multipath software and HBA listed here.
- Please contact the clusterware supplier for combination of Server, OS version, multipath software, HBA, and clusterware version.
- Please use the latest version of HBA firmware and driver unless note is stated.
- Please use the latest version of server BIOS unless note is stated.
- T10-DIF function is not supported. The ETERNUS volume to be used should be other than T10-DIF volume.
- Please contact the server supplier for connection availability of HBA and FC switch.
- On Oracle Linux and SUSE Linux Enterprise Server environment, UNMAP function is not supported on Deduplication/Compression volume.
- Trademark symbols have been omitted from this document.
- In this document, the following abbreviations are used;

**EMPD (ETERNUS Multipath Driver), PCL (PRIMECLUSTER)** 

				Sto	rage		Cluster	
os	НВА	Path Failover	Connected type	DX60 S4/S3 DX100 S3 DX200 S3 (SAS 6Gbps port)	DX60 S5/S4 DX100 S5/S4 DX200 S5/S4 (SAS 12Gbps port)	SAS boot	PCL 4.6 *2	Instruction for use
	PY-SC4FAE/	EMPD	Direct	-	Supported 9.2	No	Planned 2	
	PYBSC4FAE/PYBSC4FAEL	OS bundled	Direct	-	Supported 9.0/9.2	No	Planned 2	
	PY-SC3FBF/PYBSC3FBF/ PYBSC3FBFL	EMPD	Direct	-	Supported 9.2	No	Planned 2	
	S26361-F5793-E251	OS bundled	Direct	-	Supported 9.0/9.2	No	Planned 2	
Red Hat Enterprise Linux	PY-SC3FBE/	EMPD	Direct	-	Supported 9.2	No	Planned 2	
(Intel64) RHEL9	PYBSC3FBE/PYBSC3FBEL	OS bundled	Direct	-	Supported 9.0/9.2	No	Planned 2	
	L CL CACOEOO 160	EMPD	Direct	-	Supported 9.2	No	Planned 2	
	LSI SAS9500-16e	OS bundled	Direct	-	Supported 9.0/9.2	No	Planned 2	
	1.01.01.00.100.0	EMPD	Direct	-	Supported 9.2	No	Planned 2	
	LSI SAS9400-8e	OS bundled	Direct	-	Supported 9.0/9.2	No	Planned 2	

<sup>\*2</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

				Sto	rage		Cluster	
os	НВА	Path Failover	Connected type	DX60 S4/S3 DX100 S3 DX200 S3 (SAS 6Gbps port)	DX60 S5/S4 DX100 S5/S4 DX200 S5/S4 (SAS 12Gbps port)	SAS boot	PCL 4.6 *2	Instruction for use
	PY-SC4FAE/	EMPD	Direct	-	Supported 8.6/8.8	No	Supported	
	PYBSC4FAE/PYBSC4FAEL	OS bundled	Direct	-	Supported 8.6/8.8	No	Supported	
	PY-SC3FBF/PYBSC3FBF/ PYBSC3FBFL	EMPD	Direct	-	Supported 8.3/8.4/8.6/8.8 *4	No	Supported	
Red Hat Enterprise Linux	S26361-F5793-E251	OS bundled	Direct	-	Supported 8.3/8.4/8.6/8.8 *4	No	Supported	
(Intel64) RHEL8	PY-SC3FBE/	EMPD	Direct	-	Supported 8.3/8.4/8.6/8.8 *4	No	Supported	
	PYBSC3FBE/PYBSC3FBEL	OS bundled	Direct	-	Supported 8.3/8.4/8.6/8.8 *4	No	Supported	
	PY-SC3FE/PYBSC3FE/PYBSC3FEL S26361-F3845-L501/	EMPD	Direct	-	Supported 8.3/8.4/8.6/8.8 *4	No	Supported	
	S26361-F3845-E1/ S26361-F3845-E201	OS bundled	Direct	-	Supported 8.0 to 8.2/8.4/8.6/8.8 *4	No	Supported	

<sup>\*2</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

\*4 When connecting to Red Hat Enterprise Linux 8.4 for use, apply the advisory number RHBA-2021: 2772.

				Stor	rage		Cluster	
os	НВА	Path Failover	Connected type	DX60 S4/S3 DX100 S3 DX200 S3 (SAS 6Gbps port)	DX60 S5/S4 DX100 S5/S4 DX200 S5/S4 (SAS 12Gbps port)	SAS boot	PCL 4.6 *2	Instruction for use
	LSI SAS9500-16e	EMPD	Direct	-	Supported 8.6/8.8	No	Supported	
	LGI 0A09300-106	OS bundled	Direct	-	Supported 8.6/8.8	No	Supported	
Red Hat Enterprise Linux (Intel64)	LSI SAS9400-8e	EMPD	Direct	-	Supported 8.3/8.4/8.6/8.8 *4	No	Supported	
RHEL8	ESI 3/439400-06	OS bundled	Direct	-	Supported 8.3/8.4/8.6/8.8 *4	No	Supported	
	LSI SAS9300-8e	EMPD	Direct	_	Supported 8.3/8.4/8.6/8.8 *4	No	Supported	
	LSI SASSSUU-0E	OS bundled	Direct	_	Supported 8.0 to 8.2/8.4/8.6/8.8 *4	No	Supported	

<sup>\*2</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.
\*4 When connecting to Red Hat Enterprise Linux 8.4 for use, apply the advisory number RHBA-2021: 2772.

				Sto	rage		Cluster	
os	НВА	Path Failover	Connected type	DX60 S4/S3 DX100 S3 DX200 S3 (SAS 6Gbps port)	DX60 S5/S4 DX100 S5/S4 DX200 S5/S4 (SAS 12Gbps port)	SAS boot	PCL 4.3 to 4.6 *2	Instruction for use
	PY-SC3FBF/PYBSC3FBF/ PYBSC3FBFL	EMPD	Direct	-	Supported 7.9	No	Supported	
	S26361-F5793-E251	OS bundled	Direct	-	Supported 7.9	No	Supported	
	PY-SC3FBE/	EMPD	Direct	-	Supported 7.9	No	Supported	
Red Hat Enterprise Linux (Intel64)	PYBSC3FBE/PYBSC3FBEL	OS bundled	Direct	-	Supported 7.9	No	Supported	
RHEL7	PY-SC3FE/PYBSC3FE/PYBSC3FEL S26361-F3845-L501/	EMPD	Direct	Supported 7.0 to 7.9	Supported 7.0 to 7.9	No	Supported	
	S26361-F3845-E1/ S26361-F3845-E201	OS bundled	Direct	Supported 7.0 to 7.9	Supported 7.0 to 7.9	No	Supported	
	PY-SC2Z0/PYBSC2Z0 S26361-F3628-L501/	EMPD	Direct	Supported 7.0 to 7.9	Supported 7.0 to 7.9	No	Supported	
	S26361-F3628-E1	OS bundled	Direct	Supported 7.0 to 7.9	Supported 7.0 to 7.9	No	Supported	
	PY-SCD08/PYBSCD082 S26361-F4480-L1/	EMPD	Switch blade/	Planned 2	Planned 2	No	Planned 2	
	S26361-F4480-E1	OS bundled	Pass-through blade	Planned 2	Planned 2	No	Planned 2	
	PY-SC1Y0/PY-SC1Y0L/ PYBSC1Y0/PYBSC1Y0L	EMPD	Direct	Supported 7.0/7.1/7.2	-	No	Supported	
	S26361-F3271-L1/L201/E1/E201	OS bundled	Direct	Supported 7.0/7.1/7.2	-	No	Supported	

<sup>\*2</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.
\*3 Only direct connection is supported on DX100 S4 and DX200 S4.

				Sto	rage		Cluster	
os	НВА	Path Failover	Connected type	DX60 S4/S3 DX100 S3 DX200 S3 (SAS 6Gbps port)	DX60 S5/S4 DX100 S5/S4 DX200 S5/S4 (SAS 12Gbps port)	SAS boot	PCL 4.3 to 4.6 *2	Instruction for use
	LSI SAS9400-8e	EMPD	Direct	-	Supported 7.9	No	Supported	
	LSI SAS9400-0e	OS bundled	Direct	-	Supported 7.9	No	Supported	
	1 51 54 50200 95	EMPD	Direct/	Supported 7.0 to 7.9	Supported 7.0 to 7.9	No	Supported	
Red Hat Enterprise Linux (Intel64) RHEL7	LSI SAS9300-8e	OS bundled	via switch *3	Supported 7.0 to 7.9	Supported 7.0 to 7.9	No	Supported	
TATLET	LSI SAS9200-8e	EMPD	Direct/	Supported 7.0 to 7.9	Supported 7.0 to 7.9	No	Supported	
	L31 3A39200-0E	OS bundled	via switch *3	Supported Supported 7.0 to 7.9 7.0 to 7.9		No	Supported	
	LSI SAS3442E-R	EMPD	Direct	Supported 7.0/7.1/7.2		No	Supported	
	LOI OAGGTTZL-IX	OS bundled	Direct	Supported 7.0/7.1/7.2	-	No	Supported	

<sup>\*2</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.
\*3 Only direct connection is supported on DX100 S4 and DX200 S4.

				Sto	rage		Cluster	
OS	НВА	Path Failover	Connected type	DX60 S4/S3 DX100 S3 DX200 S3 (SAS 6Gbps port)	DX60 S5/S4 DX100 S5/S4 DX200 S5/S4 (SAS 12Gbps port)	SAS boot	PCL 4.3 to 4.5 *2	Instruction for use
	PY-SC3FE/PYBSC3FE/PYBSC3FEL S26361-F3845-L501/	EMPD	Direct	Supported 6.4 to 6.10	Supported 6.4 to 6.10	No	Supported	
	S26361-F3845-E1/ S26361-F3845-E201	OS bundled	Direct	Supported 6.4 to 6.10	Supported 6.4 to 6.10	No	Supported	
	PY-SC2Z0/PYBSC2Z0	EMPD	Direct	Supported 6.4 to 6.10	Supported 6.4 to 6.10	No	Supported	
	S26361-F3628-L501/ S26361-F3628-E1	OS bundled	Direct	Supported 6.4 to 6.10	Supported 6.4 to 6.10	No	Supported	
	PY-SCD08/PYBSCD082	EMPD	Switch blade/	Supported 6.4 to 6.10	Supported 6.4 to 6.10	No	Supported	
	S26361-F4480-L1/ S26361-F4480-E1	OS bundled	Pass-through blade	Supported 6.4 to 6.10	Supported 6.4 to 6.10	No	Supported	
Red Hat Enterprise Linux	PY-SC1Y0/PY-SC1Y0L/	EMPD	Direct	Supported 6.4 to 6.10	-	No	Supported	
(x86/Intel64) RHEL6	PYBSC1Y0/PYBSC1Y0L S26361-F3271-L1/L201/E1/E201	OS bundled	Direct	Supported 6.4 to 6.10	-	No	Supported	
	L CL C A CO200 0 -	EMPD	Direct/	Supported 6.4 to 6.10	Supported 6.4 to 6.10	No	Supported	
	LSI SAS9300-8e	OS bundled	via switch *3	Supported 6.4 to 6.10	Supported 6.4 to 6.10	No	Supported	
		EMPD	Direct/	Supported 6.4 to 6.10	Supported 6.4 to 6.10	No	Supported	
	LSI SAS9200-8e	OS bundled	via switch *3	Supported 6.4 to 6.10	Supported 6.4 to 6.10	No	Supported	
	LCLCAC2442E D	EMPD	Direct	Supported 6.4 to 6.10	-	No	Supported	
	LSI SAS3442E-R	OS bundled	Direct	Supported 6.4 to 6.10	-	No	Supported	

<sup>\*2</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.
\*3 Only direct connection is supported on DX100 S4 and DX200 S4.

				Sto	rage		Cluster	
os	НВА	Path Failover	Connected type	DX60 S4/S3 DX100 S3 DX200 S3 (SAS 6Gbps port)	DX60 S4 DX100 S4 DX200 S4 (SAS 12Gbps port)	SAS boot	PCL 4.2/4.3 *2	Instruction for use
	PY-SC3FE/PYBSC3FE/PYBSC3FEL S26361-F3845-L501/	EMPD	Direct	Supported 5.9 to 5/11	Supported 5.9 to 5/11	No	Supported	
	S26361-F3845-E1/ S26361-F3845-E201	OS bundled	Direct	Supported 5.9 to 5/11	Supported 5.9 to 5/11	No	Supported	
	PY-SC2Z0/PYBSC2Z0 S26361-F3628-L501/	EMPD	Direct	Supported 5.9 to 5/11	Supported 5.9 to 5/11	No	Supported	
	S26361-F3628-E1	OS bundled	Direct	Supported 5.9 to 5/11	Supported 5.9 to 5/11	No	Supported	
	PY-SCD08/PYBSCD082	EMPD	Switch blade/	Supported 5.9 to 5/11	Supported 5.9 to 5/11	No	Supported	
	S26361-F4480-L1/ S26361-F4480-E1	OS bundled	Pass-through blade	Supported 5.9 to 5/11	Supported 5.9 to 5/11	No	Supported	
Red Hat Enterprise Linux	PY-SC1Y0/PY-SC1Y0L/ PYBSC1Y0/PYBSC1Y0L	EMPD	Direct	Supported 5.9 to 5/11	-	No	Supported	
(x86/Intel64) RHEL5	S26361-F3271-L1/L201/E1/E201	OS bundled	Direct	Supported 5.9 to 5/11	-	No	Supported	
	LSI SAS9300-8e	EMPD	Direct/	Supported 5.9 to 5/11	Supported 5.9 to 5/11	No	Supported	
	LSI SAS9300-06	OS bundled	via switch *3	Supported 5.9 to 5/11	Supported 5.9 to 5/11	No	Supported	
	LSI SAS9200-8e	EMPD	Direct/	Supported 5.9 to 5/11	Supported 5.9 to 5/11	No	Supported	
	L31 3A39200-06	OS bundled	via switch *3	Supported 5.9 to 5/11	Supported 5.9 to 5/11	No	Supported	
	LSI SAS3442E-R	EMPD Direct		Supported 5.9 to 5/11	-	No	Supported	
	LOI OAOO44ZE-K	OS bundled	Direct	Supported 5.9 to 5/11	-	No	Supported	

<sup>\*2</sup> PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.
\*3 Only direct connection is supported on DX100 S4 and DX200 S4.

# Oracle Linux (FC connection) Edition 183: 2023/12/22

Notes - Please contact the server supplier for the server support status of OS, multipath software, HBA and clusterware listed here.

- Please contact the product supplier for operating condition of multipath software and HBA listed here.

- Please use the latest version of HBA firmware and driver unless note is stated.

- Please use the latest version of server BIOS unless note is stated.

- Please contact the server supplier for connection availability of HBA and FC switch.

- Please contact the clusterware supplier for combination of Server, OS version, multipath software, HBA, and clusterware version.

- On Oracle Linux and SUSE Linux Enterprise Server environment or on VxVM configuration, UNMAP function is not supported on Deduplication/Compression volume.

- Trademark symbols have been omitted from this document.

- HBA for PRIMEQUEST is shown as MC-0JFCn\*, the character "\*" can be any character applicable. Ex) MC-0JFC3\* means MC-0JFC31 and MC-0JFC3L are applicable.

- Storage Cluster function is not supported on DX60 S5/S4/S3.

- In this document, the following abbreviations are used;

EMPD (ETERNUS Multipath Driver), RHEL (Red Hat Enterprise Linux), PCL (PRIMECLUSTER), VCS (Veritas Cluster Server)

- FC 8Gbps (maximum transfer rate) of "DX S5 series" is supported only on DX60 S5.

					Storag	e				Cluster		
OS	НВА	Path Failover	Connected type	DX S4/S3 series *2 (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	Oracle RAC /SEHA 19c/21c	LifeKeeper V9.5~ (except DX8900 S4)	ClusterPerfect V4.9R6 (except DX8900 S4)	Instruction for use
	PY-FC441/PYBFC441/ PYBFC441L	OS bundled	Direct/via switch	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	No	Supported	Planned 2	Planned 2	
	PY-FC442/PYBFC442/ PYBFC442L *15 *31	OS bundled + Storage Cluster	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	No	Supported	Planned 2	Planned 2	
	PY-FC421/PYBFC421/ PYBFC421L	OS bundled	Direct/via switch	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	No	Supported	Planned 2	Planned 2	
	PY-FC422/PYBFC422/ PYBFC422L *15 *31	OS bundled + Storage Cluster	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	No	Supported	Planned 2	Planned 2	
	PY-FC411/PYBFC411/ PYBFC411L	OS bundled	Direct/via switch	Supported 9.1/9.2 *32	Supported 9.1/9.2 *32	Supported 9.1/9.2 *32	Supported 9.1/9.2 *32	No	Supported	Planned 2	Planned 2	
	PY-FC412/PYBFC412/ PYBFC412L *31	OS bundled + Storage Cluster	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	No	Supported	Planned 2	Planned 2	
	PY-FC351/PYBFC351/ PYBFC351L PY-FC352/PYBFC352/	OS bundled	Direct/via switch	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	No	Supported	Planned 2	Planned 2	
Oracle Linux (x86_64) Red Hat Compatible Kernel	PYBFC352L S26361-F4044-L501/E1/E201 S26361-F4044-L502/E2/E202 *15 *28	OS bundled + Storage Cluster	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	No	Supported	Planned 2	Planned 2	
Unbreakable Enterprise Kernel Oracle Linux9 *20 (including KVM *21)	PY-FC341/PYBFC341/ PYBFC341L PY-FC342/PYBFC342/ PYBFC342L	OS bundled	Direct/via switch	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	No	Supported	Planned 2	Planned 2	
	S26361-F4043-L501/E1/E201 S26361-F4043-L502/E2/E202 *28	OS bundled + Storage Cluster	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	No	Supported	Planned 2	Planned 2	
	PY-FC331/PYBFC331/ PYBFC331L	OS bundled	Direct/via switch	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	No	Supported	Planned 2	Planned 2	
	PY-FC332/PYBFC332/ PYBFC332L S26361-F5596-L501/E1/E201 S26361-F5596-L502/E2/E202 *15 *28	OS bundled + Storage Cluster	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	No	Supported	Planned 2	Planned 2	
	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1	OS bundled	Direct/via switch	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	No	Supported	Planned 2	Planned 2	
	\$26361-F5580-E1 \$26361-F5580-E201 \$26361-F5580-L502 \$26361-F5580-E2 \$26361-F5580-E202 *31	OS bundled + Storage Cluster	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	No	Supported	Planned 2	Planned 2	

\*2 Except DX8100 S3

\*11 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

\*15 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

\*20 btrfs is not supported on Oracle Linux 7 or later.

\*21 Oracle Linux 8 (minimum 8.1) and UEK R 6 (5.4 .17-2011 or later)

\*31 Contact PRIMERGY supplier for HBA support for the PRIMERGY to be connected.

\*32 Oracle Linux 9.1 supports only the Unbreakable Enterprise Kernel (UEK).

					Storag	le				Cluster		
OS	НВА	Path Failover	Connected type	DX S4/S3 series *2 (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	Oracle RAC /SEHA 19c/21c	LifeKeeper V9.5~ (except DX8900 S4)	ClusterPerfect V4.9R6 (except DX8900 S4)	Instruction for use
	Emulex LPe36000 / LPe36002	OS bundled	Direct/via switch	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	No	Supported	Planned 2	Planned 2	
	or OEM products *15	OS bundled + Storage Cluster	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	No	Supported	Planned 2	Planned 2	
	Emulex LPe35000 / LPe35002	OS bundled	Direct/via switch	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	No	Supported	Planned 2	Planned 2	
	or OEM products *15	OS bundled + Storage Cluster	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	No	Supported	Planned 2	Planned 2	
	QLogic	OS bundled	Direct/via switch	Supported 9.1/9.2 *32	Supported 9.1/9.2 *32	Supported 9.1/9.2 *32	Supported 9.1/9.2 *32	No	Supported	Planned 2	Planned 2	
	QLE2870/QLE2872/QLE2874 or OEM products	OS bundled + Storage Cluster	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	No	Supported	Planned 2	Planned 2	
Oracle Linux	QLogic QLE2770/QLE2772/QLE2774	OS bundled	Direct/via switch	Supported 9.1/9.2 *32	Supported 9.1/9.2 *32	Supported 9.1/9.2 *32	Supported 9.1/9.2 *32	No	Supported	Planned 2	Planned 2	
(x86_64) Red Hat Compatible Kernel Unbreakable Enterprise Kernel	or OEM products	OS bundled + Storage Cluster	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	No	Supported	Planned 2	Planned 2	
Oracle Linux9 *20	Emulex LPe32000 / LPe32002	OS bundled	Direct/via switch	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	No	Supported	Planned 2	Planned 2	
(including KVM *21)	or OEM products *15	OS bundled + Storage Cluster	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	No	Supported	Planned 2	Planned 2	
	QLogic QLE2740/QLE2742/QLE2764	OS bundled	Direct/via switch	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	No	Supported	Planned 2	Planned 2	
	or OEM products	OS bundled + Storage Cluster	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	No	Supported	Planned 2	Planned 2	
	Emulex LPe31000 / LPe31002	OS bundled	Direct/via switch	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	No	Supported	Planned 2	Planned 2	
	or OEM products *15	OS bundled + Storage Cluster	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	No	Supported	Planned 2	Planned 2	
	QLogic QLE2690/QLE2692/	OS bundled	Direct/via switch	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	Supported 9.0/9.1/9.2 *32	No	Supported	Planned 2	Planned 2	
	QLE2694 or OEM Products	OS bundled + Storage Cluster	via switch *11	Supported 9.2	Supported 9.2	Supported 9.2	Supported 9.2	No	Supported	Planned 2	Planned 2	

<sup>\*2</sup> Except DX8100 S3

<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

\*15 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

<sup>\*20</sup> btrfs is not supported on Oracle Linux 7 or later.

<sup>\*21</sup> Oracle Linux 8 (minimum 8.1) and UEK R 6 (5.4 .17-2011 or later)
\*31 Contact PRIMERGY supplier for HBA support for the PRIMERGY to be connected.

<sup>\*32</sup> Oracle Linux 9.1 supports only the Unbreakable Enterprise Kernel (UEK).

					Storag	je				Cluster		
os	НВА	Path Failover	Connected type	DX S4/S3 series *2 (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	Oracle RAC /SEHA 19c/21c	LifeKeeper V9.5~ (except DX8900 S4)	ClusterPerfect V4.9R6 (except DX8900 S4)	Instruction for use
	PY-FC441/PYBFC441/ PYBFC441L	OS bundled	Direct/via switch	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	No	Supported	Planned 2	Planned 2	
	PY-FC442/PYBFC442/ PYBFC442L *15 *31	OS bundled + Storage Cluster	via switch *11	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	No	Supported	Planned 2	Planned 2	
	PY-FC421/PYBFC421/ PYBFC421L	OS bundled	Direct/via switch	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	No	Supported	Planned 2	Planned 2	
	PY-FC422/PYBFC422/ PYBFC422L *15 *31	OS bundled + Storage Cluster	via switch *11	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	No	Supported	Planned 2	Planned 2	
	PY-FC411/PYBFC411/ PYBFC411L	OS bundled	Direct/via switch	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	No	Supported	Planned 2	Planned 2	
	PY-FC412/PYBFC412/ PYBFC412L *31	OS bundled + Storage Cluster	via switch *11	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	No	Supported	Planned 2	Planned 2	
	PY-FC351/PYBFC351/ PYBFC351L PY-FC352/PYBFC352/	OS bundled	Direct/via switch	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	No	Supported	Planned 2	Planned 2	
Oracle Linux (x86_64)	PYBFC352L S26361-F4044-L501/E1/E201 S26361-F4044-L502/E2/E202 *15 *28	OS bundled + Storage Cluster	via switch *11	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	No	Supported	Planned 2	Planned 2	
Red Hat Compatible Kernel Unbreakable Enterprise Kernel Oracle Linux8 *20	PYBFC341L PY-FC342/PYBFC342/	OS bundled	Direct/via switch	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	No	Supported	Planned 2	Planned 2	
(including KVM *21)	PYBFC342L S26361-F4043-L501/E1/E201 S26361-F4043-L502/E2/E202 *28	OS bundled + Storage Cluster	via switch *11	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	No	Supported	Planned 2	Planned 2	
	PY-FC331/PYBFC331/ PYBFC331L PY-FC332/PYBFC332/	OS bundled	Direct/via switch	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	No	Supported	Planned 2	Planned 2	
	PYBFC332L S26361-F5596-L501/E1/E201 S26361-F5596-L502/E2/E202 *15 *28	OS bundled + Storage Cluster	via switch *11	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	No	Supported	Planned 2	Planned 2	
	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201	OS bundled	Direct/via switch	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	No	Supported	Planned 2	Planned 2	
	S26361-F5580-E201 S26361-F5580-E2 S26361-F5580-E202 *31	OS bundled + Storage Cluster	via switch *11	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	No	Supported	Planned 2	Planned 2	

\*2 Except DX8100 S3

<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*15</sup> When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

<sup>\*20</sup> btrfs is not supported on Oracle Linux 7 or later.

<sup>\*21</sup> Oracle Linux 8 (minimum 8.1) and UEK R 6 (5.4 .17-2011 or later)
\*27 When connecting to Oracle Linux 8.4, please apply advisory number ELSA-2021:2572.
\*28 PRIMERGY is not supported

<sup>\*29</sup> PRIMERGY does not support Oracle Linux 8.4

<sup>\*30</sup> PRIMERGY has unofficial support for Oracle Linux 8.4

\*31 Contact PRIMERGY supplier for HBA support for the PRIMERGY to be connected.

\*33 Oracle Linux 8.7 supports only the Unbreakable Enterprise Kernel (UEK).

					Stora	ne				Cluster		
os	НВА	Path Failover	Connected type	DX S4/S3 series *2 (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	Oracle RAC /SEHA 19c/21c	LifeKeeper V9.5∼	ClusterPerfect V4.9R6 ) (except DX8900 S4)	Instruction for use
	PY-FC221/PY-FC222/ S26361-F4994-L501/	OS bundled	Direct/via switch	Supported 8.2	Supported 8.2	Supported 8.2	Supported 8.2	No	Planned 2	Planned 2	Planned 2	
	\$26361-F4994-L502 *31	OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	
	PY-FCD12/ PYBFCD121/PYBFCD122	OS bundled		Supported 8.2	Supported 8.2	Supported 8.2	Supported 8.2	No	Planned 2	Planned 2	Planned 2	
	S26361-F4994-E402/ S26361-F4994-L402 *31	OS bundled + Storage Cluster	Switch blade	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	
	PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1	OS bundled	Direct/via switch	Supported 8.2	Supported 8.2	Supported 8.2	Supported 8.2	No	Planned 2	Planned 2	Planned 2	
	S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202 *31	OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	
	Emulex LPe36000 / LPe36002 or OEM products	OS bundled	Direct/via switch	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	No	Supported	Planned 2	Planned 2	
	*15	OS bundled + Storage Cluster	via switch *11	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	No	Supported	Planned 2	Planned 2	
	Emulex LPe35000 / LPe35002 or OEM products	OS bundled	Direct/via switch	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	No	Supported	Planned 2	Planned 2	
	*15	OS bundled + Storage Cluster	via switch *11	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	No	Supported	Planned 2	Planned 2	
	QLogic QLE2870/QLE2872/QLE2874	OS bundled	Direct/via switch	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	No	Supported	Planned 2	Planned 2	
Oracle Linux (x86_64)	or OEM products	OS bundled + Storage Cluster	via switch *11	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	No	Supported	Planned 2	Planned 2	
Red Hat Compatible Kernel Unbreakable Enterprise Kernel Oracle Linux8 *20	QLogic QLE2770/QLE2772/QLE2774	OS bundled	Direct/via switch	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	No	Supported	Planned 2	Planned 2	
(including KVM *21)	or OEM products	OS bundled + Storage Cluster	via switch *11	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	No	Supported	Planned 2	Planned 2	
	Emulex LPe32000 / LPe32002	OS bundled	Direct/via switch	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	No	Supported	Planned 2	Planned 2	
	or OEM products *15	OS bundled + Storage Cluster	via switch *11	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	No	Supported	Planned 2	Planned 2	
	QLogic QLE2740/QLE2742/QLE2764	OS bundled	Direct/via switch	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	No	Supported	Planned 2	Planned 2	
	or OEM products	OS bundled + Storage Cluster	via switch *11	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	No	Supported	Planned 2	Planned 2	
	Emulex LPe31000 / LPe31002	OS bundled	Direct/via switch	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	No	Supported	Planned 2	Planned 2	
	or OEM products *15	OS bundled + Storage Cluster	via switch *11	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	No	Supported	Planned 2	Planned 2	
	Emulex LPe16000 / LPe16002	OS bundled	Direct/via switch	Supported 8.2	Supported 8.2	Supported 8.2	Supported 8.2	No	Planned 2	Planned 2	Planned 2	
	or OEM products	OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	Planned 2	
	QLogic QLE2690/QLE2692/ QLE2694	OS bundled	Direct/via switch	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	Supported 8.2/8.4 to 8.9 *27 *33	No	Supported	Planned 2	Planned 2	
	or OEM Products	OS bundled + Storage Cluster	via switch *11	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	Supported 8.5/8.7/8.8 *33	No	Supported	Planned 2	Planned 2	
	Qlogic QLE2660/QLE2662 QLE2670/QLE2672	OS bundled OS bundled +	Direct/via switch via switch *11	Supported 8.2 Planned 2	Supported 8.2 Planned 2	Supported 8.2 Planned 2	Supported 8.2 Planned 2	No No	Planned 2 Planned 2	Planned 2 Planned 2	Planned 2 Planned 2	
*2 Event DY8100 S3	or OEM products	Storage Cluster	via SWILCII II	Fidillieu Z	FIAIIIIEU Z	riaiiiieU ∠	FidilileU ∠	UVI	rialilieu Z	riailileu Z	FIAIIII€U Z	

\*2 Except DX8100 S3

<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*15</sup> When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

<sup>\*20</sup> btrfs is not supported on Oracle Linux 7 or later.

<sup>\*21</sup> Oracle Linux 8 (minimum 8.1) and UEK R 6 (5.4 .17-2011 or later)

<sup>\*27</sup> When connecting to Oracle Linux 8.4, please apply advisory number ELSA-2021:2572.

<sup>\*28</sup> PRIMERGY is not supported

<sup>\*29</sup> PRIMERGY does not support Oracle Linux 8.4

<sup>\*30</sup> PRIMERGY has unofficial support for Oracle Linux 8.4

<sup>\*31</sup> Contact PRIMERGY supplier for HBA support for the PRIMERGY to be connected.

<sup>\*33</sup> Oracle Linux 8.7 supports only the Unbreakable Enterprise Kernel (UEK).

					Storag	e			Cluster
os	HBA	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	Oracle RAC 11g R2/ 12c R1/12c R2
	MC-0JFCF*	OS bundled	via switch	Supported 7.4/7.5	Supported 7.4/7.5	Supported 7.4/7.5	Supported 7.4/7.5	Yes *3	Supported
	MC-0JFCG*	OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2
	MC-0JFCK*	OS bundled	via switch	Supported 7.4/7.5	Supported 7.4/7.5	Supported 7.4/7.5	Supported 7.4/7.5	Yes *3 *12	Supported
	MC-0JFCL*	OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2
	MC-0JFCM*	OS bundled	via switch	Supported 7.4/7.5	Supported 7.4/7.5	Supported 7.4/7.5	Supported 7.4/7.5	Yes *3 *12	Supported
	MC-0JFCN*	OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2
	MC-0JFCP*	OS bundled	via switch	Supported 7.4/7.5	Supported 7.4/7.5	Supported 7.4/7.5	Supported 7.4/7.5	Yes *3	Supported
	MC-0JFCQ*	OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2
Oracle Linux 7	MC-0JFC3*	OS bundled	via switch	Supported 7.0 to 7.5	Planned 2	Supported 7.0 to 7.5	Planned 2	Yes *3	Supported
(x86-64) *16	MC-0JFC9*	OS bundled + Storage Cluster	via switch *11	Supported 7.0 to 7.3	Planned 2	Supported 7.0 to 7.3	Planned 2	No	Supported
	MC-0JFC4*	OS bundled	via switch	Supported 7.0 to 7.5	Planned 2	Supported 7.0 to 7.5	Planned 2	Yes *3	Supported
	MC-0JFCA*	OS bundled + Storage Cluster	via switch *11	Supported 7.0 to 7.3	Planned 2	Supported 7.0 to 7.3	Planned 2	No	Supported
	MC-0JFC5*	OS bundled	via switch	Supported 7.1 to 7.5	Planned 2	Supported 7.1 to 7.5	Planned 2	Yes *3	Supported
	MC-0JFC6*	OS bundled + Storage Cluster	via switch *11	Supported 7.1 to 7.3	Planned 2	Supported 7.1 to 7.3	Planned 2	No	Supported
	MC-0JFC7*	OS bundled	via switch	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Supported 7.0 to 7.5	Yes *3 *12	Supported
	MC-0JFC8*	OS bundled + Storage Cluster	via switch *11	Supported 7.0 to 7.3	Supported 7.0 to 7.3	Supported 7.0 to 7.3	Supported 7.0 to 7.3	No	Supported
	MC-0JFCB*	OS bundled	via switch	Supported 7.1 to 7.5	Supported 7.1 to 7.5	Supported 7.1 to 7.5	Supported 7.1 to 7.5	Yes *3	Supported
	MC-0JFCC*	OS bundled + Storage Cluster	via switch *11	Supported 7.1 to 7.3	Supported 7.1 to 7.3	Supported 7.1 to 7.3	Supported 7.1 to 7.3	No	Supported

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*12</sup> SAN boot is supported on 16Gbps Link Speed only.

\*16 When using TPV/FTV on Oracle Linux 7.3 or later or Unbreakable Enterprise Kernel Release 4 on earlier version, then set volume threshold value of TPV/FTV to 1%. Please refer to "ETERNUS Web GUI User's Guide" or "ETERNUS SF - User Guide- Web Console" for setting.

					Storage	<b>)</b>			CI	uster	
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	Oracle RAC 11g R2/ 12c R1/12c R2	LifeKeeper V9.1 or later (except DX8900 S4)	Instruction for use
	PY-FC441/PYBFC441/ PYBFC441L	OS bundled	Direct/via switch	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	Yes *3 *12	Supported	Supported *2	
	PY-FC442/PYBFC442/ PYBFC442L *15	OS bundled + Storage Cluster	via switch *11	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	No	Supported	Planned 2	
	PY-FC421/PYBFC421/ PYBFC421L	OS bundled	Direct/via switch	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	Yes *3 *12	Supported	Supported *2	
	PY-FC422/PYBFC422/ PYBFC422L *15	OS bundled + Storage Cluster	via switch *11	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	No	Supported	Planned 2	
	PY-FC411/PYBFC411/ PYBFC411L	OS bundled	Direct/via switch	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	Yes *3 *12	Supported	Supported *2	
	PY-FC412/PYBFC412/ PYBFC412L	OS bundled + Storage Cluster	via switch *11	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	No	Supported	Planned 2	
	PY-FC351/PYBFC351/ PYBFC351L PY-FC352/PYBFC352/ PYBFC352L	OS bundled	Direct/via switch	Supported 7.4 to 7.9	Supported 7.4 to 7.9	Supported 7.4 to 7.9	Supported 7.4 to 7.9	Yes *3 *12	Supported	Supported *2	
	\$26361-F4044-L501/E1/E201 \$26361-F4044-L502/E2/E202 *15	OS bundled + Storage Cluster	via switch *11	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	No	Supported	Planned 2	
	PY-FC341/PYBFC341/ PYBFC341L PY-FC342/PYBFC342/	OS bundled	Direct/via switch	Supported 7.4 to 7.9	Supported 7.4 to 7.9	Supported 7.4 to 7.9	Supported 7.4 to 7.9	Yes *3 *12	Supported	Supported *2	
	PYBFC342L S26361-F4043-L501/E1/E201 S26361-F4043-L502/E2/E202	OS bundled + Storage Cluster	via switch *11	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	No	Supported	Planned 2	
	PY-FC331/PYBFC331/ PYBFC331L PY-FC332/PYBFC332/ PYBFC332L	OS bundled	Direct/via switch	Supported 7.4 to 7.9	Supported 7.4 to 7.9	Supported 7.4 to 7.9	Supported 7.4 to 7.9	Yes *3	Supported	Supported *2	
Oracle Linux (x86_64) Red Hat Compatible Kernel	S26361-F5596-L501/E1/E201 S26361-F5596-L502/E2/E202 *15	OS bundled + Storage Cluster	via switch *11	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	No	Supported	Planned 2	
Unbreakable Enterprise Kernel Oracle Linux7	PY-FC221/PY-FC222/	OS bundled	Direct/via switch	Supported 7.0 to 7.8	Supported 7.0 to 7.8	Supported 7.0 to 7.8	Supported 7.0 to 7.8	Yes *3 *12	Supported	Supported *2	
*16 *20 (including KVM *22)	S26361-F4994-L501/ S26361-F4994-L502	OS bundled + Storage Cluster	via switch *11	Supported 7.0 to 7.3	Supported 7.0 to 7.3	Supported 7.0 to 7.3	Supported 7.0 to 7.3	No	Supported	Planned 2	T10-DIF function is supported.
	PY-FCD12/ PYBFCD121/PYBFCD122	OS bundled	Cwitab blada	Supported 7.0 to 7.8	Supported 7.0 to 7.8	Supported 7.0 to 7.8	Supported 7.0 to 7.8	Yes *3 *12	Supported	Supported *2	T10 DIE function is supported
	S26361-F4994-E402/ S26361-F4994-L402	OS bundled + Storage Cluster	Switch blade	Supported 7.0 to 7.3	Supported 7.0 to 7.3	Supported 7.0 to 7.3	Supported 7.0 to 7.3	No	Supported	Planned 2	T10-DIF function is supported.
	PY-FC201/PY-FC202 PG-FC203/PG-FC204	OS bundled	Direct/via switch	Supported 7.0 to 7.8	Planned 2	Supported 7.0 to 7.8	Planned 2	Yes *3	Supported	Supported *2	T40 DIE film ation in automate d
	S26361-F3961-L1/ S26361-F3961-L2	OS bundled + Storage Cluster	via switch *11	Supported 7.0 to 7.3	Planned 2	Supported 7.0 to 7.3	Planned 2	No	Supported	Planned 2	T10-DIF function is supported.
	PY-FCD02	OS bundled	Switch blade/	Supported 7.0 to 7.8	Planned 2	Supported 7.0 to 7.8	Planned 2	Yes *3	Supported	Supported *2	
	PG-FCD202 S26361-F3874-L1	OS bundled + Storage Cluster	Pass-through blade	Supported 7.0 to 7.3	Planned 2	Supported 7.0 to 7.3	Planned 2	No	Supported	Planned 2	T10-DIF function is supported.
	PY-FC211/PY-FC212 PG-FC205/PG-FC206	OS bundled	Direct/via switch	Supported 7.0 to 7.8	Planned 2	Supported 7.0 to 7.8	Planned 2	Yes *3	Supported	Supported *2	
	S26361-F3631-L1/ S26361-F3631-L2	OS bundled + Storage Cluster	via switch *11	Supported 7.0 to 7.3	Planned 2	Supported 7.0 to 7.3	Planned 2	No	Supported	Planned 2	
	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201	OS bundled	Direct/via switch	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Yes *3	Supported	Supported *2	T10-DIF function is supported.
	S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202	OS bundled + Storage Cluster	via switch *11	Supported 7.0 to 7.3/7.9	Supported 7.0 to 7.3/7.9	Supported 7.0 to 7.3/7.9	Supported 7.0 to 7.3/7.9	No	Supported	Planned 2	
	PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201	OS bundled	Direct/via switch	Supported 7.0 to 7.8	Supported 7.0 to 7.8	Supported 7.0 to 7.8	Supported 7.0 to 7.8	Yes *3	Supported	Supported *2	T10-DIF function is supported.
	S26361-F3313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	OS bundled + Storage Cluster	via switch *11	Supported 7.0 to 7.3	Supported 7.0 to 7.3	Supported 7.0 to 7.3	Supported 7.0 to 7.3	No	Supported	Planned 2	

<sup>\*2</sup> Supported on Oracle Linux 7.3 or later

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<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

\*11 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*12</sup> SAN boot is supported on 16Gbps Link Speed only.

<sup>\*15</sup> When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

\*16 When using TPV/FTV on Oracle Linux 7.3 or later or Unbreakable Enterprise Kernel Release 4 on earlier version, then set volume threshold value of TPV/FTV to 1%. Please refer to "ETERNUS Web GUI User's Guide" or "ETERNUS SF - User Guide- Web Console" for setting.

<sup>\*20</sup> btrfs is not supported on Oracle Linux 7 or later.

<sup>\*22</sup> Oracle Linux 7 (minimum 7.6) and UEK R 5 Update 2 (4.14 .35-1902 or higher) or Oracle Linux 7 (minimum 7.7) and UEK R 6 (5.4 .17-2011 or later)

					Storag	e			С	Cluster	
OS	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	Oracle RAC 11g R2/ 12c R1/12c R2	LifeKeeper V9.1 or later (except DX8900 S4)	Instruction for use
	Emulex LPe36000 / LPe36002 or OEM products	OS bundled	Direct/via switch	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	Yes *3 *12	Supported	Supported *2	
	*15	OS bundled + Storage Cluster	via switch *11	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	No	Supported	Planned 2	
	Emulex LPe35000 / LPe35002	OS bundled	Direct/via switch	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	Yes *3 *12	Supported	Supported *2	
	or OEM products *15	OS bundled + Storage Cluster	via switch *11	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	No	Supported	Planned 2	
	QLogic QLE2770/QLE2772/QLE2774	OS bundled	Direct/via switch	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	Yes *3 *12	Supported	Supported *2	
	or OEM products	OS bundled + Storage Cluster	via switch *11	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	No	Supported	Planned 2	
	Emulex LPe32000 / LPe32002	OS bundled	Direct/via switch	Supported 7.4 to 7.9	Supported 7.4 to 7.9	Supported 7.4 to 7.9	Supported 7.4 to 7.9	Yes *3 *12	Supported	Supported *2	
	or OEM products *15	OS bundled + Storage Cluster	via switch *11	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	No	Supported	Planned 2	
	QLogic QLE2870/QLE2872/QLE2874	OS bundled	Direct/via switch	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	Yes *3 *12	Supported	Supported *2	
Oracle Linux	or OEM products	OS bundled + Storage Cluster	via switch *11	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	No	Supported	Planned 2	
(x86_64) Red Hat Compatible Kernel	QLe2740/QLe2742/QLe2764 or OEM products	OS bundled OS bundled +	Direct/via switch	Supported 7.4 to 7.9	Supported 7.4 to 7.9	Supported 7.4 to 7.9	Supported 7.4 to 7.9	Yes *3 *12	Supported	Supported *2	
Unbreakable Enterprise Kernel Oracle Linux7	Ci GEM producto	Storage Cluster	via switch *11	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	No	Supported	Planned 2	
*16 *20	Emulex LPe31000 / LPe31002 or OEM products	OS bundled	Direct/via switch	Supported 7.4 to 7.9	Supported 7.4 to 7.9	Supported 7.4 to 7.9	Supported 7.4 to 7.9	Yes *3	Supported	Supported *2	
	*15	OS bundled + Storage Cluster	via switch *11	Supported 7.9	Supported 7.9	Supported 7.9	Supported 7.9	No	Supported	Planned 2	
	Emulex LPe16000 / LPe16002	OS bundled	Direct/via switch	Supported 7.4 to 7.8	Supported 7.4 to 7.8	Supported 7.4 to 7.8	Supported 7.4 to 7.8	Yes *3 *12	Supported	Supported *2	ETERNUS supports T10-DIF function, but please ask server supplier if the connected server supports T10-DIF function or not.  When upgrading HBA firmware, please follow the procedure below.  1. Disconnect FC cable
	or OEM products	OS bundled + Storage Cluster	via switch *11	Supported 7.0 to 7.3	Supported 7.0 to 7.3	Supported 7.0 to 7.3	Supported 7.0 to 7.3	No	Supported	Planned 2	2. Upgrade HBA firmware  3. Power off server  7. Diff. to the server to
	Emulex LPe12000/LPe12002/	OS bundled	Direct/via switch	Supported 7.0 to 7.8	Planned 2	Supported 7.0 to 7.8	Planned 2	Yes *3	Supported	Supported *2	ETERNUS supports T10-DIF function, but please ask server supplier if the connected server supports T10-DIF function or not.  When upgrading HBA firmware, please follow the procedure below.  1. Disconnect FC cable
	LPe1250 or OEM products	OS bundled + Storage Cluster	via switch *11	Supported 7.0 to 7.3	Planned 2	Supported 7.0 to 7.3	Planned 2	No	Supported	Planned 2	Upgrade HBA firmware     Server
	QLogic QLE2690/QLE2692/	OS bundled	Direct/via switch	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Supported 7.0 to 7.9	Yes *3	Supported	Supported *2	ETERNUS supports T10-DIF function, but please ask server supplier if the connected server supports T10-DIF function or not.
	QLE2694 or OEM Products	OS bundled + Storage Cluster	via switch *11	Supported 7.0 to 7.3/7.9	Supported 7.0 to 7.3/7.9	Supported 7.0 to 7.3/7.9	Supported 7.0 to 7.3/7.9	No	Supported	Planned 2	, present and a series of the
	Qlogic QLE2660/QLE2662 QLE2670/QLE2672	OS bundled	Direct/via switch	Supported 7.0 to 7.8	Supported 7.0 to 7.8	Supported 7.0 to 7.8	Supported 7.0 to 7.8	Yes *3	Supported	Supported *2	ETERNUS supports T10-DIF function, but please ask server supplier if the connected server supports T10-DIF function or not.
	or OEM products	OS bundled + Storage Cluster	via switch *11	Supported 7.0 to 7.3	Supported 7.0 to 7.3	Supported 7.0 to 7.3	Supported 7.0 to 7.3	No	Supported	Planned 2	
	QLogic QLE2560/QLE2562	OS bundled	Direct/via switch	Supported 7.0 to 7.8	Planned 2	Supported 7.0 to 7.8	Planned 2	Yes *3	Supported	Supported *2	
	or OEM products	OS bundled + Storage Cluster	via switch *11	Supported 7.0 to 7.3	Planned 2	Supported 7.0 to 7.3	Planned 2	No	Supported	Planned 2	

\*2 Supported on Oracle Linux 7.3 or later

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*12</sup> SAN boot is supported on 16Gbps Link Speed only.

<sup>\*15</sup> When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

<sup>\*16</sup> When using TPV/FTV on Oracle Linux 7.3 or later or Unbreakable Enterprise Kernel Release 4 on earlier version, then set volume threshold value of TPV/FTV to 1%. Please refer to "ETERNUS Web GUI User's Guide" or "ETERNUS SF - User Guide- Web Console" for setting.

<sup>\*20</sup> btrfs is not supported on Oracle Linux 7 or later.

					Storag	e			Cluster	
OS	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	Oracle RAC (11gR2/12c R1)	Instruction for use
	MC-0JFC3*	OS bundled	via switch	Supported 6.5 to 6.8	Planned 2	Supported 6.5 to 6.8	Planned 2	Yes *3	Supported	
	MC-0JFC9*	OS bundled + Storage Cluster	via switch *11	Supported 6.5 to 6.8	Planned 2	Supported 6.5 to 6.8	Planned 2	No	Supported	
	MC-0JFC4*	OS bundled	via switch	Supported 6.5 to 6.8	Planned 2	Supported 6.5 to 6.8	Planned 2	Yes *3	Supported	
	MC-0JFCA*	OS bundled + Storage Cluster	via switch *11	Supported 6.5 to 6.8	Planned 2	Supported 6.5 to 6.8	Planned 2	No	Supported	
Oracle Linux 6	MC-0JFC5*	OS bundled	via switch	Supported 6.5 to 6.8	Planned 2	Supported 6.5 to 6.8	Planned 2	Yes *3	Supported	
(x86-64) *17	MC-0JFC6*	OS bundled + Storage Cluster	via switch *11	Supported 6.5 to 6.8	Planned 2	Supported 6.5 to 6.8	Planned 2	No	Supported	
	MC-0JFC7*	OS bundled	via switch	Supported 6.5 to 6.9	Supported 6.5 to 6.9	Supported 6.5 to 6.9	Supported 6.5 to 6.9	Yes *3 *12	Supported	
	MC-0JFC8*	OS bundled + Storage Cluster	via switch *11	Supported 6.5 to 6.8	Supported 6.5 to 6.8	Supported 6.5 to 6.8	Supported 6.5 to 6.8	No	Supported	
	MC-0JFCB*	OS bundled	via switch	Supported 6.5 to 6.9	Supported 6.5 to 6.9	Supported 6.5 to 6.9	Supported 6.5 to 6.9	Yes *3	Supported	
	MC-0JFCC*	OS bundled + Storage Cluster	via switch *11	Supported 6.5 to 6.8	Supported 6.5 to 6.8	Supported 6.5 to 6.8	Supported 6.5 to 6.8	No	Supported	

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

\*12 SAN boot is supported on 16Gbps Link Speed only.

\*17 When using TPV/FTV on Oracle Linux 6.8 or later or Unbreakable Enterprise Kernel Release 4, then set volume threshold value of TPV/FTV to 1%. Please refer to "ETERNUS Web GUI User's Guide" or "ETERNUS SF - User Guide- Web Console" for setting.

					Storage	)			С	Cluster	
OS	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	Oracle RAC 11gR2	LifeKeeper V9.1 or later	Instruction for use
	PY-FC351/PYBFC351/ PYBFC351L PY-FC352/PYBFC352/ PYBFC352L	OS bundled	Direct/via switch	Supported 6.9/6.10	Supported 6.9/6.10	Supported 6.9/6.10	Supported 6.9/6.10	Yes *3 *9	Supported	Planned 2	
	\$26361-F4044-L501/E1/E201 \$26361-F4044-L502/E2/E202 *15	OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	
	PY-FC341/PYBFC341/ PYBFC341L PY-FC342/PYBFC342/	OS bundled	Direct/via switch	Supported 6.9/6.10	Supported 6.9/6.10	Supported 6.9/6.10	Supported 6.9/6.10	Yes *3	Supported	Planned 2	
	PYBFC342L S26361-F4043-L501/E1/E201 S26361-F4043-L502/E2/E202	OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	
	PY-FC331/PYBFC331/ PYBFC331L PY-FC332/PYBFC332/ PYBFC332L	OS bundled	Direct/via switch	Supported 6.9/6.10	Supported 6.9/6.10	Supported 6.9/6.10	Supported 6.9/6.10	Yes *3 *9	Supported	Planned 2	
	\$26361-F5596-L501/E1/E201 \$26361-F5596-L502/E2/E202 *15	OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	
	PY-FC221/PY-FC222/	OS bundled	Direct/via switch	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Yes *3 *12	Supported	Planned 2	T40 DIE 6 m etion in sommente deux OLOS
	S26361-F4994-L501/ S26361-F4994-L502	OS bundled + Storage Cluster	via switch *11	Supported 6.3 to 6.8	Supported 6.3 to 6.8	Supported 6.3 to 6.8	Supported 6.3 to 6.8	No	Supported	Planned 2	- T10-DIF function is supported on OL6.5.
	PY-FCD12/ PYBFCD121/PYBFCD122	OS bundled	0.51111	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Yes *3 *12	Supported	Planned 2	
	S26361-F4994-E402/ S26361-F4994-L402	OS bundled + Storage Cluster	Switch blade	Supported 6.3 to 6.8	Supported 6.3 to 6.8	Supported 6.3 to 6.8	Supported 6.3 to 6.8	No	Supported	Planned 2	T10-DIF function is supported on OL6.5.
	PY-FC201/PY-FC202 PG-FC203/PG-FC204	OS bundled	Direct/via switch	Supported 6.3 to 6.8	Planned 2	Supported 6.3 to 6.8	Planned 2	Yes *3	Supported	Planned 2	T40 DIE (
Oracle Linux	S26361-F3961-L1/ S26361-F3961-L2	OS bundled + Storage Cluster	via switch *11	Supported 6.3 to 6.8	Planned 2	Supported 6.3 to 6.8	Planned 2	No	Supported	Planned 2	- T10-DIF function is supported on OL6.5.
(x86_64) Red Hat Compatible Kernel Unbreakable Enterprise Kernel	PY-FCD02	OS bundled	Switch blade/	Supported 6.3 to 6.8	Planned 2	Supported 6.3 to 6.8	Planned 2	Yes *3	Supported	Planned 2	T40 DIE 6 m etion in sommente deux OLOS
Oracle Linux6 *17	PG-FCD202 S26361-F3874-L1	OS bundled + Storage Cluster	Pass-through blade	Supported 6.3 to 6.8	Planned 2	Supported 6.3 to 6.8	Planned 2	No	Supported	Planned 2	- T10-DIF function is supported on OL6.5.
	PY-FC211/PY-FC212 PG-FC205/PG-FC206	OS bundled	Direct/via switch	Supported 6.3 to 6.8	Planned 2	Supported 6.3 to 6.8	Planned 2	Yes *3	Supported	Planned 2	
	S26361-F3631-L1/ S26361-F3631-L2	OS bundled + Storage Cluster	via switch *11	Supported 6.3 to 6.8	Planned 2	Supported 6.3 to 6.8	Planned 2	No	Supported	Planned 2	
	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201	OS bundled	Direct/via switch	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Yes *3	Supported	Planned 2	T10-DIF function is supported on OL6.5.
	S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202	OS bundled + Storage Cluster	via switch *11	Supported 6.3 to 6.8	Supported 6.3 to 6.8	Supported 6.3 to 6.8	Supported 6.3 to 6.8	No	Supported	Planned 2	The Bill randomic supported on GEs.s.
	PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201	OS bundled	Direct/via switch	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Yes *3	Supported	Planned 2	T10-DIF function is supported on OL6.5.
	S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	OS bundled + Storage Cluster	via switch *11	Supported 6.3 to 6.8	Supported 6.3 to 6.8	Supported 6.3 to 6.8	Supported 6.3 to 6.8	No	Supported	Planned 2	
	PY-CN202	OS bundled	FCoE switch	Supported 6.3 to 6.8	Planned 2	Supported 6.3 to 6.8	Planned 2	Yes *3	Planned 2	Planned 2	
	PG-292B S26361-F3592-L2	OS bundled + Storage Cluster	*11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	
	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501	OS bundled	FCoE switch	Planned 2	Planned 2	Planned 2	Planned 2	Yes *3	Planned 2	Planned 2	
	S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	OS bundled + Storage Cluster	*11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*9</sup> SAN boot is not supported on direct connection.

\*11 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

\*12 SAN boot is supported on 16Gbps Link Speed only.

\*17 When using TPV/FTV on Oracle Linux 6.8 or later or Unbreakable Enterprise Kernel Release 4, then set volume threshold value of TPV/FTV to 1%. Please refer to "ETERNUS Web GUI User's Guide" or "ETERNUS SF - User Guide- Web Console" for setting.

	HBA	Path Failover	Connected type	Storage					Cluster		
os				DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	boot	Oracle RAC 11gR2	LifeKeeper V9.1 or later	Instruction for use
Oracle Linux (x86_64) Red Hat Compatible Kernel Unbreakable Enterprise Kernel Oracle Linux6 *17	Emulex LPe32000 / LPe32002 or OEM products *15	OS bundled	Direct/via switch	Supported 6.9/6.10	Supported 6.9/6.10	Supported 6.9/6.10	Supported 6.9/6.10	Yes *3 *9	Supported	Planned 2	
		OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	
	QLe2740/QLe2742/QLe2764 or OEM products	OS bundled	Direct/via switch	Supported 6.9/6.10	Supported 6.9/6.10	Supported 6.9/6.10	Supported 6.9/6.10	Yes *3	Supported	Planned 2	
		OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	
	Emulex LPe31000 / LPe31002 or OEM products *15	OS bundled	Direct/via switch	Supported 6.9/6.10	Supported 6.9/6.10	Supported 6.9/6.10	Supported 6.9/6.10	Yes *3 *9	Supported	Planned 2	
		OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	
	Emulex LPe16000 / LPe16002 or OEM products	OS bundled	Direct/via switch	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Yes *3 *12	Supported	Planned 2	ETERNUS supports T10-DIF function on OL6.5, but please ask server supplier if the connected server supports T10-DIF function or not.  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
		OS bundled + Storage Cluster	via switch *11	Supported 6.3 to 6.8	Supported 6.3 to 6.8	Supported 6.3 to 6.8	Supported 6.3 to 6.8	No	Supported	Planned 2	
	QLogic QLE2690/QLE2692/ QLE2694 or OEM Products	OS bundled	Direct/via switch	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Yes *3	Supported	Planned 2	ETERNUS supports T10-DIF function, but please ask server supplier if the connected server supports T10-DIF function or not.
		OS bundled + Storage Cluster	via switch *11	Supported 6.3 to 6.8	Supported 6.3 to 6.8	Supported 6.3 to 6.8	Supported 6.3 to 6.8	No	Supported	Planned 2	
	Qlogic QLE2660/QLE2662 QLE2670/QLE2672 or OEM products	OS bundled	Direct/via switch	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Supported 6.3 to 6.10	Yes *3	Supported	Planned 2	ETERNUS supports T10-DIF function, but please ask server supplier if the connected server supports T10-DIF function or not.
		OS bundled + Storage Cluster	via switch *11	Supported 6.3 to 6.8	Supported 6.3 to 6.8	Supported 6.3 to 6.8	Supported 6.3 to 6.8	No	Supported	Planned 2	
	Brocade Brocade 1860 *6 or OEM products	OS bundled	via switch	Supported 6.3 to 6.8	Planned 2	Supported 6.3 to 6.8	Planned 2	Yes *3	Supported	Planned 2	
	Emulex LPe12000/LPe12002/ LPe1250 or OEM products	OS bundled	Direct/via switch	Supported 6.3 to 6.8	Planned 2	Supported 6.3 to 6.8	Planned 2	Yes *3	Supported	Planned 2	ETERNUS supports T10-DIF function, but please ask server supplier if the connected server supports T10-DIF function or not.  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
		OS bundled + Storage Cluster	via switch *11	Supported 6.3 to 6.8	Planned 2	Supported 6.3 to 6.8	Planned 2	No	Supported	Planned 2	
	QLogic QLE2560/QLE2562 or OEM products	OS bundled	Direct/via switch	Supported 6.3 to 6.8	Planned 2	Supported 6.3 to 6.8	Planned 2	Yes *3	Supported	Planned 2	
		OS bundled + Storage Cluster	via switch *11	Supported 6.3 to 6.8	Planned 2	Supported 6.3 to 6.8	Planned 2	No	Supported	Planned 2	
	Brocade Brocade 815/825 or OEM products	OS bundled	via switch	Supported 6.3 to 6.8	Planned 2	Supported 6.3 to 6.8	Planned 2	Yes *3	Supported	Planned 2	
	Emulex OCe10102 or OEM products	OS bundled	FCoE switch	Supported 6.3 to 6.8	Planned 2	Supported 6.3 to 6.8	Planned 2	Yes *3	Planned 2	Planned 2	
		OS bundled + Storage Cluster	*11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	
	Emulex OCe14102 or OEM products	OS bundled	FCoE switch	Planned 2	Planned 2	Planned 2	Planned 2	Yes *3	Planned 2	Planned 2	
		OS bundled + Storage Cluster	^11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	
	Brocade Brocade 415/425 or OEM products	OS bundled	via switch	Supported 6.3 to 6.8	N.A.	Supported 6.3 to 6.8	N.A.	Yes *3	Supported	Planned 2	

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*6</sup> Direct connection is supported only with 16Gbps CA. \*9 SAN boot is not supported on direct connection.

<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*12</sup> SAN boot is supported on 16Gbps Link Speed only.

\*17 When using TPV/FTV on Oracle Linux 6.8 or later or Unbreakable Enterprise Kernel Release 4, then set volume threshold value of TPV/FTV to 1%. Please refer to "ETERNUS Web GUI User's Guide" or "ETERNUS SF - User Guide- Web Console" for setting.

					Storaç	ge			Cluster	
OS	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX8900 S4 (FC 16Gbps port)	DX8900 S4 (FC 32Gbps port)	SAN boot	Oracle RAC 11gR2	Instruction for use
	PY-FC221/PY-FC222/ S26361-F4994-L501/	OS bundled	Direct/via switch	Supported 5.10	Planned 2	Supported 5.10	Planned 2	Yes *3 *12	Supported	
	S26361-F4994-L502	OS bundled + Storage Cluster	via switch *11	Supported 5.10	Planned 2	Supported 5.10	Planned 2	No	Supported	
	PY-FCD12/ PYBFCD121/PYBFCD122	OS bundled	Switch blade	Supported 5.10	Planned 2	Supported 5.10	Planned 2	Yes *3 *12	Supported	
	S26361-F4994-E402/ S26361-F4994-L402	OS bundled + Storage Cluster	Switch blade	Supported 5.10	Planned 2	Supported 5.10	Planned 2	No	Supported	
	PY-FC201/PY-FC202 PG-FC203/PG-FC204	OS bundled	Direct/via switch	Supported 5.9/5.10	Planned 2	Supported 5.9/5.10	Planned 2	Yes *3	Supported	
	S26361-F3961-L1/ S26361-F3961-L2	OS bundled + Storage Cluster	via switch *11	Supported 5.9/5.10	Planned 2	Supported 5.9/5.10	Planned 2	No	Supported	
	PY-FCD02 PG-FCD202	OS bundled	Switch blade/	Supported 5.9/5.10	Planned 2	Supported 5.9/5.10	Planned 2	Yes *3	Supported	
	S26361-F3874-L1	OS bundled + Storage Cluster	Pass-through blade	Supported 5.9/5.10	Planned 2	Supported 5.9/5.10	Planned 2	No	Supported	
	PY-FC211/PY-FC212 PG-FC205/PG-FC206	OS bundled	Direct/via switch	Supported 5.9/5.10	Planned 2	Supported 5.9/5.10	Planned 2	Yes *3	Supported	
	S26361-F3631-L1/ S26361-F3631-L2	OS bundled + Storage Cluster	via switch *11	Supported 5.9/5.10	Planned 2	Supported 5.9/5.10	Planned 2	No	Supported	
	PY-CN202 PG-292B	OS bundled	FCoE switch	Supported 5.9/5.10	Planned 2	Supported 5.9/5.10	Planned 2	Yes *3	Planned 2	
	S26361-F3592-L2	OS bundled + Storage Cluster	*11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	
	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501	OS bundled	FCoE switch	Planned 2	Planned 2	Planned 2	Planned 2	Yes *3	Planned 2	
Oracle Linux (x86_64) Red Hat Compatible Kernel	S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	OS bundled + Storage Cluster	*11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	
Unbreakable Enterprise Kernel Oracle Linux5	Emulex LPe16000 / LPe16002	OS bundled	Direct/via switch	Supported 5.10	Planned 2	Supported 5.10	Planned 2	Yes *3 *12	Supported	When upgrading HBA firmware, please follow the procedure below.  1. Disconnect FC cable  2. Upgrade HBA firmware  3. Power off server
	or OEM products	OS bundled + Storage Cluster	via switch *11	Supported 5.10	Planned 2	Supported 5.10	Planned 2	No	Supported	4. Reconnect FC cable 5. Power on server
	Brocade Brocade 1860 *6 or OEM products	OS bundled	via switch	Supported 5.9/5.10	Planned 2	Supported 5.9/5.10	Planned 2	Yes *3	Supported	
	Emulex LPe12000/LPe12002/ LPe1250	OS bundled	Direct/via switch	Supported 5.9/5.10	Planned 2	Supported 5.9/5.10	Planned 2	Yes *3	Supported	When upgrading HBA firmware, please follow the procedure below.  1. Disconnect FC cable 2. Upgrade HBA firmware 3. Power off server
	or OEM products	OS bundled + Storage Cluster	via switch *11	Supported 5.9/5.10	Planned 2	Supported 5.9/5.10	Planned 2	No	Supported	4. Reconnect FC cable  5. Power on server
	QLogic QLE2560/QLE2562	OS bundled	Direct/via switch	Supported 5.9/5.10	Planned 2	Supported 5.9/5.10	Planned 2	Yes *3	Supported	
	or OEM products	OS bundled + Storage Cluster	via switch *11	Supported 5.9/5.10	Planned 2	Supported 5.9/5.10	Planned 2	No	Supported	
	Brocade Brocade 815/825 or OEM products	OS bundled	via switch	Supported 5.9/5.10	Planned 2	Supported 5.9/5.10	Planned 2	Yes *3	Supported	
	Emulex OCe10102	OS bundled	FCoE switch	Supported 5.9/5.10	Planned 2	Supported 5.9/5.10	Planned 2	Yes *3	Planned 2	
	or OEM products	OS bundled + Storage Cluster	*11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	
	Emulex OCe14102	OS bundled	FCoE switch	Planned 2	Planned 2	Planned 2	Planned 2	Yes *3	Planned 2	
	or OEM products	OS bundled + Storage Cluster	*11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	
	Brocade Brocade 415/425 or OEM products but please ask server supplier if	OS bundled	via switch	Supported 5.9/5.10	N.A.	Supported 5.9/5.10	N.A.	Yes *3	Supported	

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.
\*6 Direct connection is supported only with 16Gbps CA.

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<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.
\*12 SAN boot is supported on 16Gbps Link Speed only.

## Oracle Linux (iSCSI connection) Edition 183: 2023/12/22

### Notes

- Please contact the server supplier for the server support status of OS, multipath software, HBA and clusterware listed here.
- Please contact the product supplier for operating condition of multipath software and HBA listed here.
- Please use the latest version of HBA firmware and driver unless note is stated.
- Please use the latest version of server BIOS unless note is stated.
- Please contact the clusterware supplier for combination of Server, OS version, multipath software, HBA, and clusterware version.
- Direct connection with NIC/CNA of which speed is 25Gbps or more is not supported.
- On Oracle Linux and SUSE Linux Enterprise Server environment, UNMAP function is not supported on Deduplication/Compression volume.
- Trademark symbols have been omitted from this document.
- HBA for PRIMEQUEST is shown as MC-0JCEn\*, the character "\*" can be any character applicable. Ex) MC-0JCE6\* means MC-0JCE61 and MC-0JCE62 are applicable.
- Storage Cluster function is not supported on DX60 S5/S4/S3.
- In this document, the following abbreviations are used;

**EMPD (ETERNUS Multipath Driver), PCL (PRIMECLUSTER)** 

					Storage		
os	iSCSI Initiator type	NIC or HBA	Path Failover	Connected type	DX S5/S4/S3 series AF series/DX200F	iSCSI boot	Instruction for use
			OS bundled	Direct / via switch *3	Supported 9.0/9.1/9.2 *12 *16	No	
	Software Initiator	NIC and CNA for PRIMERGY	OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported 9.2 *16	No	
Oracle Linux (x86_64)  Red Hat Compatible Kernel			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	
Unbreakable Enterprise Kernel Oracle Linux9 *8	Software Initiator		OS bundled	Direct / via switch *3	Supported 9.0/9.1/9.2 *12 *16	No	
(including KVM)			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported 9.2 *16	No	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	

<sup>\*2</sup> Please contact server supplier about available NIC and CNA.

DX S5 series / AF S3 series / DX8900 S4: V11L50-1000 or later

DX S4 / S3 series (excluding DX8900 S4) AF series / DX200F (excluding AF S3 series): V10L91-1000 or later

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*8</sup> btrfs is not supported on Oracle Linux 7 or later.

<sup>\*12</sup> Oracle Linux 9.1 supports only the Unbreakable Enterprise Kernel (UEK).

<sup>\*14</sup> When using Oracle Linux 9 or later, use the following storage firmware.

					Storage		
os	iSCSI Initiator type	NIC or HBA	Path Failover	Connected type	DX S5/S4/S3 series AF series/DX200F	iSCSI boot	Instruction for use
			OS bundled	Direct / via switch *3	Supported 8.2/8.4 to 8.9 *13 *14	No	
	Software Initiator	NIC and CNA for PRIMERGY *2	OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported 8.5 to 8.9 *13 *14	No	
Oracle Linux (x86_64)			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	
Red Hat Compatible Kernel Unbreakable Enterprise Kernel Oracle Linux8		PY-CN202/PY-CN202L/ PYBCN202/PYBCN202L PG-292B/PG-CND201	OS bundled	Direct / via switch	Planned 2	Δ	
*8 (including KVM *10)	Hardwara	PY-CN3A1/ PYBCN3A1/PYBCN3A1L	OS bundled	Direct / via switch	Planned 2	Δ	
	Hardware Initiator	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U	OS bundled	Direct / via switch	Planned 2	Δ	
		PY-CND02/ PYBCND021/PYBCND022 BX92xS3 オンボードCNA	OS bundled	Switch blade	Planned 2	Δ	

<sup>\*2</sup> Please contact server supplier about available NIC and CNA.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*8</sup> btrfs is not supported on Oracle Linux 7 or later.

<sup>\*10</sup> Oracle Linux 8 (minimum 8.1) and UEK R 6 (5.4 .17-2011 or later)

<sup>\*13</sup> Oracle Linux 8.7/8.9 supports only the Unbreakable Enterprise Kernel (UEK).

<sup>\*14</sup> When using Oracle Linux 8.4 or later, use the following storage firmware.

DX S5 series / AF S3 series / DX8900 S4: V11L50-1000 or later

DX S4 / S3 series (excluding DX8900 S4) AF series / DX200F (excluding AF S3 series): V10L91-1000 or later

					Storage		
OS	iSCSI Initiator type	NIC or HBA	Path Failover	Connected type	DX S5/S4/S3 series AF series/DX200F	iSCSI boot	Instruction for use
			OS bundled	Direct / via switch *3	Supported 8.2/8.4 to 8.9 *13 *14	No	
	Software Initiator	NIC / CNA *2	OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported 8.5 to 8.9 *13 *14	No	
Oracle Linux (x86_64) Red Hat Compatible Kernel Unbreakable Enterprise Kernel			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	
Oracle Linux8  *8		Emulex OCe10102	OS bundled	Direct / via switch	Planned 2	Δ	
(including KVM *10)	Hardware	Emulex OCe14401B	OS bundled	Direct / via switch	Planned 2	Δ	
	Initiator	Emulex OCe14102	OS bundled	Direct / via switch	Planned 2	Δ	
		Emulex OCe11102	OS bundled	Direct / via switch	Planned 2	Δ	

<sup>\*2</sup> Please contact server supplier about available NIC and CNA.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*8</sup> btrfs is not supported on Oracle Linux 7 or later.

<sup>\*10</sup> Oracle Linux 8 (minimum 8.1) and UEK R 6 (5.4 .17-2011 or later)

<sup>\*13</sup> Oracle Linux 8.7/8.9 supports only the Unbreakable Enterprise Kernel (UEK).

<sup>\*14</sup> When using Oracle Linux 8.4 or later, use the following storage firmware.

DX S5 series / AF S3 series / DX8900 S4: V11L50-1000 or later

DX S4 / S3 series (excluding DX8900 S4) AF series / DX200F (excluding AF S3 series): V10L91-1000 or later

	iSCSI				Storage		
os	Initiator type	NIC or HBA	Path Failover	Connected type	DX S5/S4/S3 series AF series/DX200F	iSCSI boot	Instruction for use
	Software Initiator	NIC for PRIMEQUEST 3000	EMPD	Direct / via switch *3	Supported 7.4 to 7.6/7.8	No	
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	*9
Oracle Linux (x86_64) Red Hat Compatible Kernel			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	
Unbreakable Enterprise Kernel Oracle Linux7		NIC for PRIMEQUEST 2000 *2	EMPD	Direct / via switch *3	Supported 7.4 to 7.6	No	
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	*9
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	

<sup>\*2</sup> Please contact server supplier about available NIC and CNA.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*9</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

	iSCSI				Storage		
OS	Initiator type	NIC or HBA	Path Failover	Connected type	DX S5/S4/S3 series AF series/DX200F	iSCSI boot	Instruction for use
			OS bundled	Direct / via switch *3	Supported 7.0 to 7.9	No	
	Software Initiator	NIC and CNA for PRIMERGY *2	OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported 7.1/7.2/7.3	No	*9
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	
		PY-CN202 PG-292B PG-CND201 S26361-F3592-L2	OS bundled	Direct / via switch	Planned 2		
Oracle Linux (x86_64) Red Hat Compatible Kernel Unbreakable Enterprise Kernel Oracle Linux7	Hardware Initiator	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	OS bundled	Direct / via switch	Planned 2		
*8 (including KVM *11)		PY-CND02 S26361-F3592-L532 BX92xS3 Onboard CNA	OS bundled	Switch blade	Planned 2		
			OS bundled	Direct / via switch *3	Supported 7.0 to 7.9	No	
	Software Initiator	Intel NIC / CNA *2	OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported 7.1/7.2/7.3	No	*9
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	
		Emulex OCe10102	OS bundled	Direct / via switch	Planned 2		
	Hardware Initiator	Emulex OCe14102	OS bundled	Direct / via switch	Planned 2		
*2 Please contact conver cumplier about		Emulex OCe11102	OS bundled	Direct / via switch	Planned 2		

<sup>\*2</sup> Please contact server supplier about available NIC and CNA.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*8</sup> btrfs is not supported on Oracle Linux 7 or later.

<sup>\*9</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

<sup>\*11</sup> Oracle Linux 7 (minimum 7.6) and UEK R 5 Update 2 (4.14 .35-1902 or higher) or Oracle Linux 7 (minimum 7.7) and UEK R 6 (5.4 .17-2011 or later)

1	1	1		1			
	iSCSI			Connected	Storage	iSCSI	
OS	Initiator type	NIC or HBA	type DX S5/S4/S3 ser AF series/DX200	DX S5/S4/S3 series AF series/DX200F	boot	Instruction for use	
	Software Initiator	NIC for PRIMEQUEST 2000 *2	OS bundled	Direct / via switch *3	Supported 6.5 to 6.9	No	
	Software Initiator	NIC and CNA for PRIMERGY *2	OS bundled	Direct / via switch *3	Supported 6.3 to 6.10	No	
		PY-CN202 PG-292B PG-CND201 S26361-F3592-L2	OS bundled	Direct / via switch	Planned 2		
Oracle Linux (x86_64) Red Hat Compatible Kernel Unbreakable Enterprise Kernel Oracle Linux6	Hardware Initiator	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	OS bundled	Direct / via switch	Planned 2		
		PY-CND02 S26361-F3592-L532 BX92xS3 Onboard CNA	OS bundled	Switch blade	Planned 2		
	Software Initiator	Intel NIC / CNA	OS bundled	Direct / via switch *3	Supported 6.3 to 6.10	No	
		Emulex OCe10102	OS bundled	Direct / via switch	Planned 2		
	Hardware Initiator	Emulex OCe14102	OS bundled	Direct / via switch	Planned 2		
		Emulex OCe11102	OS bundled	Direct / via switch	Planned 2		

<sup>\*2</sup> Please contact server supplier about available NIC and CNA.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

					Storage		
os	iSCSI Initiator type	NIC or HBA	Path Failover	Connected type	DX S4/S3 series AF series/DX200F (except AF S3 series)	iSCSI boot	Instruction for use
	Software Initiator	NIC and CNA for PRIMERGY *2	OS bundled	Direct / via switch *3	Supported 5.9/5.10	No	
		PY-CN202 PG-292B PG-CND201 S26361-F3592-L2	OS bundled	Direct / via switch	Planned 2		
Oracle Linux (x86_64) Red Hat Compatible Kernel	Hardware Initiator	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	OS bundled	Direct / via switch	Planned 2		
Unbreakable Enterprise Kernel Oracle Linux5		PY-CND02 S26361-F3592-L532 BX92xS3 Onboard CNA	OS bundled	Switch blade	Planned 2		
	Software Initiator	Intel NIC / CNA	OS bundled	Direct / via switch *3	Supported 5.9/5.10	No	
		Emulex OCe10102	OS bundled	Direct / via switch	Planned 2		
	Hardware Initiator	Emulex OCe14102	OS bundled	Direct / via switch	Planned 2		
		Emulex OCe11102	OS bundled	Direct / via switch	Planned 2		

<sup>\*2</sup> Please contact server supplier about available NIC and CNA.

\*3 When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

# SLES (FC connection) Edition 183: 2023/12/22

Notes - Please contact the server supplier for the server support status of OS, multipath software, HBA and clusterware listed here.

- Please contact the product supplier for operating condition of multipath software and HBA listed here.
- Please use the latest version of HBA firmware and driver unless note is stated.
- Please use the latest version of server BIOS unless note is stated.
- Please contact the server supplier for connection availability of HBA and FC switch.
- Please contact the clusterware supplier for combination of Server, OS version, multipath software, HBA, and clusterware version.
- On Oracle Linux and SUSE Linux Enterprise Server environment or on VxVM configuration, UNMAP function is not supported on Deduplication/Compression volume.
- Trademark symbols have been omitted from this document.
- HBA for PRIMEQUEST is shown as MC-0JFCn\*, the character "\*" can be any character applicable. Ex) MC-0JFC3\* means MC-0JFC31 and MC-0JFC3L are applicable.
- Storage Cluster function is not supported on DX60 S5/S4/S3.
- In this document, the following abbreviations are used;
- EMPD (ETERNUS Multipath Driver), RHEL (Red Hat Enterprise Linux), PCL (PRIMECLUSTER), VCS (Veritas Cluster Server)
- FC 8Gbps (maximum transfer rate) of "DX S5 series" is supported only on DX60 S5.

					Stora			
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot
		EMPD	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2
	MC-0JFCF*	EMPD + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2
	MC-0JFCG* *15	OS bundled	Direct/via switch	Supported GA/SP1	Supported GA/SP1	Supported GA/SP1	Supported GA/SP1	Yes
		OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2
		EMPD	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2
	MC-0JFCK*	EMPD + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2
	MC-0JFCL*	OS bundled	Direct/via switch	Supported SP1	Supported SP1	Supported SP1	Supported SP1	*3
		OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2
		EMPD	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2
	MC-0JFCM*	EMPD + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2
	MC-0JFCN* *15	OS bundled	Direct/via switch	Supported GA/SP1	Supported GA/SP1	Supported GA/SP1	Supported GA/SP1	Yes
		OS bundled +	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2
		Storage Cluster EMPD	Direct/	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2
SUSE Linux		EMPD + Storage	via switch via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2
Enterprise Server 15 for AMD64/Intel 64	MC-0JFCP* MC-0JFCQ*	Cluster OS bundled	Direct/via switch	Supported	Supported	Supported	Supported SP1	*3
(including xen/KVM)		OS bundled +	via switch *11	SP1 Planned 2	SP1 Planned 2	SP1 Planned 2	SP1 Planned 2	Planned 2
		Storage Cluster EMPD	Direct/	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2
		EMPD + Storage	via switch via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2
	MC-0JFC3* MC-0JFC9*	Cluster OS bundled	Direct/via switch	Supported GA	Planned 2	Supported GA	Planned 2	*3
		OS bundled +	via switch *11	GA Planned 2	Planned 2	GA Planned 2	Planned 2	Planned 2
		Storage Cluster EMPD	Direct/	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2
		EMPD + Storage	via switch via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2
	MC-0JFC4* MC-0JFCA*	Cluster		Supported		Supported		*3
		OS bundled OS bundled +	Direct/via switch	GA	Planned 2	GA	Planned 2	
		Storage Cluster	via switch *11 Direct/	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2
		EMPD + Storage	via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2
	MC-0JFC5* MC-0JFC6*	Cluster	via switch *11	Planned 2 Supported	Planned 2	Planned 2 Supported	Planned 2	Planned 2
	MC-0JFC6*	OS bundled OS bundled +	Direct/via switch	GA	Planned 2	GA	Planned 2	*3
		Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2

		EMPD	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2
	MC-0JFC7*	EMPD + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2
	MC-0JFC8*	OS bundled	Direct/via switch	Supported GA/SP1	Supported GA/SP1	Supported GA/SP1	Supported GA/SP1	*3
		OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2
		EMPD	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2
SUSE Linux Enterprise Server 15	MC-0JFCB*	EMPD + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2
for AMD64/Intel 64 (including xen/KVM)	MC-0JFCC*	OS bundled	Direct/via switch	Supported GA/SP1	Supported GA/SP1	Supported GA/SP1	Supported GA/SP1	*3
		OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2
		EMPD	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2
	MC-0JFCD*	EMPD + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2
	MC-0JFCE*	OS bundled	Direct/via switch	Supported SP1	Supported SP1	Supported SP1	Supported SP1	*3
		OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.
\*15 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

					Sto	rage			C	Cluster	
os	HBA	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	SLES HA Extension	Oracle RAC 12.1	Instruction for use
	PY-FC441/PYBFC441/ PYBFC441L PY-FC442/PYBFC442/	OS bundled *22	Direct/ via switch	Supported SP3/SP4/SP5	Supported SP3/SP4/SP5	Supported SP3/SP4/SP5	Supported SP3/SP4/SP5	Yes *23	Planned 2	Planned 2	*27 For SLES15SP4, execute the following.  1) Copy the /usr/lib/udev/rules.d/58-scsi-sg3_symlink.rules file to /etc/udev/rules.d/.  2) Edit the /etc/udev/rules.d/58-scsi-sg3_symlink.rules file and comment out or remove the following two lines.  ENV{SCSI_IDENT_SERIAL}=="?*", ENV{DEVTYPE}=="disk", SYMLINK+="disk/by-id/scsi-
	PY-FC442/PYBFC442/ PYBFC442L *15	OS bundled + Storage Cluster	via switch *11	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	No	Planned 2	Planned 2	S\$env{SCSI_VENDOR}_\$env{SCSI_MODEL}_\$env{SCSI_IDENT_SERIAL} "  ENV{SCSI_IDENT_SERIAL}=="?*", ENV{DEVTYPE}=="partition", SYMLINK+="disk/by-id/scsi- S\$env{SCSI_VENDOR}_\$env{SCSI_MODEL}_\$env{SCSI_IDENT_SERIAL} -part%n"  3) Recreate the initrd.
	PY-FC421/PYBFC421/ PYBFC421L PY-FC422/PYBFC422/	OS bundled *22	Direct/ via switch	Supported SP3/SP4/SP5	Supported SP3/SP4/SP5	Supported SP3/SP4/SP5	Supported SP3/SP4/SP5	Yes *23	Planned 2	Planned 2	# mkinitrd 4) Reboot the OS.
	PYBFC422L *15	OS bundled + Storage Cluster	via switch *11	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	No	Planned 2	Planned 2	
	PY-FC411/PYBFC411/ PYBFC411L	OS bundled	Direct/ via switch	Supported SP3/SP4/SP5	Supported SP3/SP4/SP5	Supported SP3/SP4/SP5	Supported SP3/SP4/SP5	Yes *23	Planned 2	Planned 2	
	PY-FC412/PYBFC412/ PYBFC412L	OS bundled + Storage Cluster	via switch *11	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	No	Planned 2	Planned 2	
	PY-FC351/PYBFC351/ PYBFC351L PY-FC352/PYBFC352/ PYBFC352L	OS bundled *22	Direct/ via switch	Supported GA to SP5	Supported GA to SP5	Supported GA to SP5	Supported GA to SP5	Yes *23	Planned 2	Planned 2	
	\$26361-F4044-L501/E1/E201 \$26361-F4044-L502/E2/E202 *15	OS bundled + Storage Cluster	via switch *11	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	No	Planned 2	Planned 2	
	PY-FC341/PYBFC341/ PYBFC341L PY-FC342/PYBFC342/	OS bundled	Direct/ via switch	Supported GA to SP5	Supported GA to SP5	Supported GA to SP5	Supported GA to SP5	Yes *23	Planned 2	Planned 2	
SUSE Linux Enterprise Server 15	PYBFC342L S26361-F4043-L501/E1/E201 S26361-F4043-L502/E2/E202	OS bundled + Storage Cluster	via switch *11	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	No	Planned 2	Planned 2	
for AMD64/Intel 64 (including xen/KVM)	PY-FC331/PYBFC331/ PYBFC331L PY-FC332/PYBFC332/	OS bundled *22	Direct/ via switch	Supported GA to SP5	Supported GA to SP5	Supported GA to SP5	Supported GA to SP5	Yes *23	Planned 2	Planned 2	
	PYBFC332L S26361-F5596-L501/E1/E201 S26361-F5596-L502/E2/E202 *15	OS bundled + Storage Cluster	via switch *11	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	No	Planned 2	Planned 2	
	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1	OS bundled	Direct/ via switch	Supported GA to SP5	Supported GA to SP5	Supported GA to SP5	Supported GA to SP5	Yes *23	Planned 2	Planned 2	
	S26361-F5580-E201 S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202	OS bundled + Storage Cluster	via switch *11	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	No	Planned 2	Planned 2	
	PY-FCD12/ PYBFCD121/PYBFCD122	OS bundled	- Switch blade	Supported GA/SP1/SP2/SP3	Supported GA/SP1/SP2/SP3	Supported GA/SP1/SP2/SP3	Supported GA/SP1/SP2/SP3	Yes	Planned 2	Planned 2	
	S26361-F4994-E402/ S26361-F4994-L402	OS bundled + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1	OS bundled	FCoE switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	OS bundled + Storage Cluster	*11	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1	OS bundled	FCoE switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	OS bundled + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	

<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

\*15 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

\*22 Please set no\_path\_retry value at /etc/multipath.conf to "10". And neither TPV nor FTV can be used as advanced copy target volume.

\*23 See "Instruction for use" for SLES15SP4.

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<sup>\*23</sup> If you use SAN Boot and device-mapper multipath with SLES15SP5, set user\_friendly\_names to no in the/etc/multipath.conf configuration.

					Stor	age			Cl	luster	
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	SLES HA Extension	Oracle RAC 12.1	Instruction for use
	Emulex LPe36000 / LPe36002 or OEM products	OS bundled *22	Direct/ via switch	Supported SP3/SP4/SP5	Supported SP3/SP4/SP5	Supported SP3/SP4/SP5	Supported SP3/SP4/SP5	Yes *23	Planned 2	Planned 2	*27 For SLES15SP4, execute the following.  1) Copy the /usr/lib/udev/rules.d/58-scsi-sg3_symlink.rules file to /etc/udev/rules.d/.  2) Edit the /etc/udev/rules.d/58-scsi-sg3_symlink.rules file and comment out or remove the following two lines.
	*15	OS bundled + Storage Cluster	via switch *11	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	No	Planned 2	Planned 2	ENV{SCSI_IDENT_SERIAL}=="?*", ENV{DEVTYPE}=="disk", SYMLINK+="disk/by-id/scsi- S\$env{SCSI_VENDOR}_\$env{SCSI_MODEL}_\$env{SCSI_IDENT_SERIAL} "
	LPe35000 / LPe35002	OS bundled *22	Direct/ via switch	Supported SP3/SP4/SP5	Supported SP3/SP4/SP5	Supported SP3/SP4/SP5	Supported SP3/SP4/SP5	Yes *23	Planned 2	Planned 2	ENV{SCSI_IDENT_SERIAL}=="?*", ENV{DEVTYPE}=="partition", SYMLINK+="disk/by-id/scsi- S\$env{SCSI_VENDOR}_\$env{SCSI_MODEL}_\$env{SCSI_IDENT_SERIAL} -part%n" 3) Recreate the initrd.
	or OEM products *15	OS bundled + Storage Cluster	via switch *11	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	No	Planned 2	Planned 2	# mkinitrd 4) Reboot the OS.
	Emulex LPe32000 / LPe32002	OS bundled *22	Direct/ via switch	Supported GA to SP5	Supported GA to SP5	Supported GA to SP5	Supported GA to SP5	Yes *23	Planned 2	Planned 2	
	or OEM products *15	OS bundled + Storage Cluster	via switch *11	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	No	Planned 2	Planned 2	
	Emulex LPe31000 / LPe31002	OS bundled *22	Direct/ via switch	Supported GA to SP5	Supported GA to SP5	Supported GA to SP5	Supported GA to SP5	Yes *23	Planned 2	Planned 2	
	or OEM products *15	OS bundled + Storage Cluster	via switch *11	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	No	Planned 2	Planned 2	
	QLogic QLE2870/QLE2872/QLE2874	OS bundled	Direct/ via switch	Supported SP3/SP4/SP5	Supported SP3/SP4/SP5	Supported SP3/SP4/SP5	Supported SP3/SP4/SP5	Yes *23	Planned 2	Planned 2	
	or OEM products	OS bundled + Storage Cluster	via switch *11	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	No	Planned 2	Planned 2	
	QLogic QLE2770/QLE2772/QLE2774	OS bundled	Direct/ via switch	Supported SP3/SP4/SP5	Supported SP3/SP4/SP5	Supported SP3/SP4/SP5	Supported SP3/SP4/SP5	Yes *23	Planned 2	Planned 2	
	or OEM products	OS bundled + Storage Cluster	via switch *11	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	No	Planned 2	Planned 2	
	QLogic QLE2740/QLE2742/QLE2764	OS bundled	Direct/ via switch	Supported GA to SP5	Supported GA to SP5	Supported GA to SP5	Supported GA to SP5	Yes *23	Planned 2	Planned 2	
SUSE Linux Enterprise Server 15	or OEM products	OS bundled + Storage Cluster	via switch *11	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	No	Planned 2	Planned 2	
for AMD64/Intel 64 (including xen/KVM)	Emulex LPe16000 / LPe16002	OS bundled	Direct/ via switch	Supported GA/SP1/SP2/SP3	Supported GA/SP1/SP2/SP3	Supported GA/SP1/SP2/SP3	Supported GA/SP1/SP2/SP3	Yes	Planned 2	Planned 2	
	or OEM products	OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	QLogic QLE2690/QLE2692/	OS bundled	Direct/ via switch	Supported GA to SP5	Supported GA to SP5	Supported GA to SP5	Supported GA to SP5	Yes *23	Planned 2	Planned 2	
	QLE2694 or OEM products	OS bundled + Storage Cluster	via switch *11	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	Supported SP4/SP5	No	Planned 2	Planned 2	
	Qlogic QLE2660/QLE2662	OS bundled	Direct/ via switch	Supported GA/SP1/SP2/SP3	Supported GA/SP1/SP2/SP3	Supported GA/SP1/SP2/SP3	Supported GA/SP1/SP2/SP3	Yes	Planned 2	Planned 2	
	QLE2670/QLE2672 or OEM products	OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	Emulex LPe12000/LPe12002/	OS bundled	Direct/ via switch	Supported GA	Planned 2	Supported GA	Planned 2	Planned 2	Planned 2	Planned 2	
	LPe1250 or OEM products	OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	QLogic QLE2560/QLE2562	OS bundled	Direct/ via switch	Supported GA	Planned 2	Supported GA	Planned 2	Planned 2	Planned 2	Planned 2	
	or OEM products	OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	Emulex OCe14401B	OS bundled	FCoE switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	or OEM products	OS bundled + Storage Cluster	*11	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	Emulex OCe14102	OS bundled	FCoE switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	or OEM products	OS bundled + Storage Cluster	*11	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	

<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

\*15 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

\*22 Please set no\_path\_retry value at /etc/multipath.conf to "10". And neither TPV nor FTV can be used as advanced copy target volume.

\*23 If you use SAN Boot and device-mapper multipath with SLES15SP5, set user\_friendly\_names to no in the/etc/multipath.conf configuration.

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					Stora	age		
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot
		EMPD	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	No
	MC-0JFCF*	EMPD + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No
	MC-0JFCG* *15	OS bundled	Direct/via switch	Supported SP1 to SP4	Supported SP1 to SP4	Supported SP1 to SP4	Supported SP1 to SP4	Yes
		OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No
		EMPD	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	No
	MC-0JFCK*	EMPD + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No
	MC-0JFCL*	OS bundled	Direct/via switch	Supported SP3	Supported SP3	Supported SP3	Supported SP3	Yes
		OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No
		EMPD	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	No
	MC-0JFCM*	EMPD + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No
	MC-0JFCN* *15	OS bundled	Direct/via switch	Supported SP2 to SP4	Supported SP2 to SP4	Supported SP2 to SP4	Supported SP2 to SP4	Yes
		OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No
		EMPD	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	No
	MC-0JFCP*	EMPD + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No
	MC-0JFCQ*	OS bundled	Direct/via switch	Supported SP3	Supported SP3	Supported SP3	Supported SP3	Yes *3
		OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No
		EMPD	Direct/ via switch	Supported GA	Supported GA	Supported GA	Supported GA	No
		EMPD + Storage Cluster	via switch *11	Supported GA	Supported GA	Supported GA	Supported GA	No
	MC-0JFC3* MC-0JFC9*	OS bundled	Direct/via switch	Supported GA to SP3 Planned 2	Supported GA to SP3 Planned 2	Supported GA to SP3 Planned 2	Supported GA to SP3 Planned 2	Yes *3
22		OS bundled +	via switch *11	SP4 Supported GA/SP1/SP2	SP4 Supported	SP4 Supported	SP4 Supported	No
SUSE Linux Enterprise Server 12		Storage Cluster  EMPD	Direct/	Supported GA	GA/SP1SP2 Supported GA	GA/SP1/SP2 Supported GA	GA/SP1/SP2 Supported GA	No
		EMPD + Storage	via switch via switch *11	Supported GA	Supported GA	Supported GA	Supported GA	No
	MC-0JFC4* MC-0JFCA*	Cluster		Supported GA to SP3	Supported GA to SP3	Supported GA to SP3	Supported GA to SP3	Yes
		OS bundled	Direct/via switch	Planned 2 SP4	Planned 2 SP4	Planned 2 SP4	Planned 2 SP4	*3
		OS bundled + Storage Cluster	via switch *11	Supported GA/SP1/SP2	Supported GA/SP1SP2	Supported GA/SP1/SP2	Supported GA/SP1/SP2	No
		EMPD	Direct/ via switch	Supported GA	Planned 2	Supported GA	Planned 2	No
	MC-0JFC5*	EMPD + Storage Cluster	via switch *11	Supported GA	Planned 2	Supported GA	Planned 2	No
	MC-0JFC6*	OS bundled	Direct/via switch	Supported GA to SP3	Planned 2	Supported GA to SP3	Planned 2	Yes *3
		OS bundled + Storage Cluster	via switch *11	Supported GA/SP1/SP2	Planned 2	Supported GA/SP1/SP2	Planned 2	No
		EMPD	Direct/ via switch	Supported GA	Supported GA	Supported GA	Supported GA	No
	MC-0JFC7*	EMPD + Storage Cluster	via switch *11	Supported GA	Supported GA	Supported GA	Supported GA	No
	MC-0JFC8*	OS bundled	Direct/via switch	Supported GA to SP4	Supported GA to SP4	Supported GA to SP4	Supported GA to SP4	Yes *3 *12
		OS bundled + Storage Cluster	via switch *11	Supported GA/SP1/SP2	Supported GA/SP1/SP2	Supported GA/SP1/SP2	Supported GA/SP1/SP2	No
		EMPD	Direct/ via switch	Supported GA	Supported GA	Supported GA	Supported GA	No
	MC-0JFCB*	EMPD + Storage Cluster	via switch *11	Supported GA	Supported GA	Supported GA	Supported GA	No
	MC-0JFCC*	OS bundled	Direct/via switch	Supported GA to SP3	Supported GA to SP3	Supported GA to SP3	Supported GA to SP3	Yes *3
		OS bundled + Storage Cluster	via switch *11	Supported GA/SP1/SP2	Supported GA/SP1SP2	Supported GA/SP1/SP2	Supported GA/SP1/SP2	No
		EMPD	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	No
	MC-0JFCD*	EMPD + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No
	MC-0JFCE*	OS bundled	Direct/via switch	Supported SP3	Supported SP3	Supported SP3	Supported SP3	Yes *3
		OS bundled +	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No

Instruction for use

\*3 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

\*11 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.
\*15 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

Part		_	Ī	1								T
## PRODUCTION CONTROLS   Proceeding Street   Control   C	os	HBA	Path Failover		(except DX8900 S4) AF series/DX200F (except AF S3 series)	DX S4 series (except DX8900 S4) AF series (except AF S3 series)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps	AF S3 series DX8900 S4		SLES HA	Oracle RAC	Instruction for use
Proceedings		PY-FC351/PYBFC351/	EMPD		Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	-	
Part		PYBFC351L PY-FC352/PYBFC352/			Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	-	
Properties   Pro		S26361-F4044-L501/E1/E201	OS bundled *18			• • •				Planned 2	Supported	
Processor   Proc		*15		via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	
Proceedings					Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	-	
Company   Comp				via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	-	
Prof.   Color   Prof.   Prof		PYBFC342L S26361-F4043-L501/E1/E201	OS bundled		SP1/SP2/SP3 Planned 2	SP1/SP2/SP3 Planned 2	SP1/SP2/SP3 Planned 2	SP1/SP2/SP3 Planned 2		Planned 2	Supported	
Processor   Proc				via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	
Principle   Prin			EMPD		Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	-	
Secret (1986)   1997		PY-FC332/PYBFC332/								Planned 2	-	
September   Sept		S26361-F5596-L501/E1/E201 S26361-F5596-L502/E2/E202				I				Planned 2	Supported	
Company   Comp		*15		via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	
## Process Process ## Process Process ## Process Process ## Process Process ## Process #						- · ·			No	-	-	
Second				via switch *11				• •	No	-	-	
State   Link   P   100			OS bundled			I				Planned 2	Supported	
SUBSILIDAY   PROPERTY   Supported   Supp				via switch *11		• • •			No	Planned 2	Supported	
SHE LINE   Control of Part			EMPD				• • •		No	-	-	
Supported   Supp	SUSE Linux			Cwitch blade					No	-	-	
Story Charter   Supported	for AMD64/Intel 64		OS bundled	- Switch blade			• • • • • • • • • • • • • • • • • • • •			Planned 2	Supported	
Description	(illiciduling Xell/RVIVI)					• •			No	Planned 2	Supported	
PG FC0025PG FC004   Storage Cluster   Visit Width   Visit Supported   Suppor			EMPD			Planned 2		Planned 2	No	-	-	
Size		PG-FC203/PG-FC204		via switch *11		Planned 2	• · · · · · · · · · · · · · · · · · · ·	Planned 2	No	-	-	
Storage Cluster			OS bundled			Planned 2		Planned 2		Planned 2	Supported	
PV-FCD12   PV-FCD12   Supported   Supported   Supported   GA   Planned 2   Supported   GA   Supported   Suppor				via switch *11		Planned 2		Planned 2	No	Planned 2	Supported	
Some   Cluster   South blader   CA   Planned 2   CA   CA   Planned 2   CA   CA   CA   CA   CA   CA   CA			EMPD			Planned 2		Planned 2	No	-	-	
S26361-F3874-L1						Planned 2		Planned 2	No	-	-	
Storage Cluster   GA/SP1/SP2   Planned 2   GA/SP1/SP2   Planned 2   Supported   Supporte			OS bundled	Pass-through blade		Planned 2	• • • • • • • • • • • • • • • • • • • •	Planned 2		Planned 2	Supported	
EMPD +   via switch   GA						Planned 2		Planned 2	No	Planned 2	Supported	
S26361-F5580-L501   S26361-F5580-L501   S26361-F5580-L502   S26361-F580-L502   S26361-F580-L5		DV E0004/DV E00001				- · · · · · · · · · · · · · · · · · · ·			No	-	-	
S26361-F580-E201   S26361-F580-E202   S26361-F580		S26361-F5580-L501		via switch *11	GA	GA	GA	GA	No	-	-	
OS bundled + Storage Cluster		S26361-F5580-E201 S26361-F5580-L502 S26361-F5580-E2	OS bundled		GA to SP3 Planned 2	GA to SP3 Planned 2	GA to SP3 Planned 2	GA to SP3 Planned 2		Planned 2	Supported	
PY-FC311/PY-FC312/    S26361-F5313-L501     S26361-F5313-E201     S26361-F5313-E202				via switch *11		I			No	Planned 2	Supported	
S26361-F5313-L501   S26361-F5313-E1   S26361-F5313-E201   S26361-F5313-L502   S26361-F5313-E20   S26361-F5		DV 50044/DV 50045	EMPD			1 · · · · · · · · · · · · · · · · · · ·			No	-	-	
S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E20 S263		S26361-F5313-L501		via switch *11					No	-	-	
OS bundled + Via switch *11 Supported Supporte		S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2	OS bundled		GA to SP3 Planned 2	GA to SP3 Planned 2	GA to SP3 Planned 2	GA to SP3 Planned 2		Planned 2	Supported	
		52000110010-L202		via switch *11	Supported	Supported	Supported GA/SP1/SP2	Supported GA/SP1/SP2	No	Planned 2	Supported	

\*3 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

\*11 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.
\*12 SAN boot is supported on 16Gbps Link Speed only.
\*13 When using SLES12 SP3, please use the latest Kernel version or the latest driver version.
\*14 Oracle RAC is supported on SUSE Linux Enterprise Server 12 SP2 only.

\*15 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.
\*18 When using SP2 or SP3, please set no\_path\_retry value at /etc/multipath.conf to "10". And neither TPV nor FTV can be used as advanced copy target volume.

					Stora	age			С	Cluster	
OS	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	SLES HA Extension	Oracle RAC 12.1 *14	Instruction for use
		EMPD	Direct/ via switch	Supported GA	Planned 2	Supported GA	Planned 2	No	-	-	
	PY-FC211/PY-FC212	EMPD + Storage Cluster	via switch *11	Supported GA	Planned 2	Supported GA	Planned 2	No	-	-	
	PG-FC205/PG-FC206 S26361-F3631-L1/ S26361-F3631-L2	OS bundled	Direct/ via switch	Supported GA to SP3 Planned 2 SP4	Planned 2	Supported GA to SP3 Planned 2 SP4	Planned 2	Yes *3	Planned 2	Supported	
		OS bundled + Storage Cluster	via switch *11	Supported GA/SP1/SP2	Planned 2	Supported GA/SP1/SP2	Planned 2	No	Planned 2	Supported	
		EMPD		Supported GA	Planned 2	Supported GA	Planned 2	No	-	-	
	PY-CN202	EMPD + Storage Cluster	FCoE switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	
	PG-292B S26361-F3592-L2	OS bundled	*11	Supported GA to SP5	Planned 2	Supported GA to SP5	Planned 2	Yes *3	Planned 2	Supported	
		OS bundled + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	
	PY-CN3A1/	EMPD		Supported GA	Planned 2	Supported GA	Planned 2	No	-	-	
	PYBCN3A1/PYBCN3A1L S26361-F5539-L501	EMPD + Storage Cluster	FCoE switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	
	S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211	OS bundled	*11	Supported GA to SP5	Planned 2	Supported GA to SP5	Planned 2	Yes *3	Planned 2	Supported	
	S26361-F5539-E211	OS bundled + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	
	PY-CN302/	EMPD		Supported GA	Planned 2	Supported GA	Planned 2	No	-	-	
	PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501	EMPD + Storage Cluster	FCoE switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	
	S26361-F5250-E1 S26361-F5250-E201	OS bundled	*11	Supported GA to SP5	Planned 2	Supported GA to SP5	Planned 2	Yes *3	Planned 2	Supported	
	S26361-F5302-L211 S26361-F5302-E211	OS bundled + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	
OHOE Linux		EMPD	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	
SUSE Linux Enterprise Server 12 for AMD64/Intel 64	Emulex LPe32000 / LPe32002	EMPD + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	
(including xen/KVM)	or OEM products *15	OS bundled *18	Direct/ via switch	Supported SP1 to SP5	Supported SP1 to SP5	Supported SP1 to SP5	Supported SP1 to SP5	Yes *3	Planned 2	Supported	
		OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	
		EMPD	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	
	Emulex LPe31000 / LPe31002	EMPD + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	
	or OEM products *15	OS bundled *18	Direct/ via switch	Supported SP1 to SP5	Supported SP1 to SP5	Supported SP1 to SP5	Supported SP1 to SP5	Yes *3	Planned 2	Supported	
		OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	
		EMPD	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	
	QLe2740/QLe2742/QLe2764	EMPD + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	
	or OEM products	OS bundled	Direct/ via switch	Supported SP1 to SP5	Supported SP1 to SP5	Supported SP1 to SP5	Supported SP1 to SP5	Yes *3	Planned 2	Supported	
		OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	
		EMPD	Direct/ via switch	Supported GA	Supported GA	Supported GA	Supported GA	No	-	-	When ungrading HBA firmware, please follow the procedure below
	Emulex	EMPD + Storage Cluster	via switch *11	Supported GA	Supported GA	Supported GA	Supported GA	No	-	-	<ul> <li>When upgrading HBA firmware, please follow the procedure below.</li> <li>Disconnect FC cable</li> <li>Upgrade HBA firmware</li> </ul>
	LPe16000 / LPe16002 or OEM products	OS bundled	Direct/ via switch	Supported GA to SP5	Supported GA to SP5	Supported GA to SP5	Supported GA to SP5	Yes *3 *12	Planned 2	Supported	3. Power off server 4. Reconnect FC cable
		OS bundled + Storage Cluster	via switch *11	Supported GA/SP1/SP2	Supported GA/SP1/SP2	Supported GA/SP1/SP2	Supported GA/SP1/SP2	No	Planned 2	Supported	5. Power on server
		EMPD	Direct/ via switch	Supported GA	Supported GA	Supported GA	Supported GA	No	-	-	
	QLogic QLE2690/	EMPD + Storage Cluster	via switch *11	Supported GA	Supported GA	Supported GA	Supported GA	No	-	-	
	QLE2692/ QLE2694 or OEM products	OS bundled	Direct/ via switch	Supported GA to SP5	Supported GA to SP5	Supported GA to SP5	Supported GA to SP5	Yes *3	Planned 2	Supported	
	S. SEM Producto	OS bundled + Storage Cluster	via switch *11	Supported GA/SP1/SP2	Supported GA/SP1/SP2	Supported GA/SP1/SP2	Supported GA/SP1/SP2	No	Planned 2	Supported	
	but please ask server supplier if the	-	t- OANI				•	•	•	•	

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

\*11 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

\*12 SAN boot is supported on 16Gbps Link Speed only.

\*14 Oracle RAC is supported on SUSE Linux Enterprise Server 12 SP2 only.

\*15 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

\*18 When using SP2 or SP3, please set no\_path\_retry value at /etc/multipath.conf to "10". And neither TPV nor FTV can be used as advanced copy target volume.

					Stor	age			C	Cluster	
OS	HBA	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	SLES HA Extension	Oracle RAC 12.1 *14	Instruction for use
		EMPD	Direct/ via switch	Supported GA	Supported GA	Supported GA	Supported GA	No	-	-	
	Qlogic QLE2660/QLE2662	EMPD + Storage Cluster	via switch *11	Supported GA	Supported GA	Planned 2	Planned 2	No	-	-	
	QLE2670/QLE2672 or OEM products	OS bundled	Direct/ via switch	Supported GA to SP5	Supported GA to SP5	Supported GA to SP5	Supported GA to SP5	Yes *3	Planned 2	Supported	
		OS bundled + Storage Cluster	via switch *11	Supported GA/SP1/SP2	Supported GA/SP1/SP2	Supported GA/SP1/SP2	Supported GA/SP1/SP2	No	Planned 2	Supported	
		EMPD	Direct/ via switch	Supported GA	Planned 2	Supported GA	Planned 2	No	-	-	When upgrading HBA firmware, please follow the procedure below.
	Emulex LPe12000/LPe12002/	EMPD + Storage Cluster	via switch *11	Supported GA	Planned 2	Supported GA	Planned 2	No	-	-	Disconnect FC cable     Disgrade HBA firmware
	LPe1250 or OEM products	OS bundled	Direct/ via switch	Supported GA to SP5 *13	Planned 2	Supported GA to SP5 *13	Planned 2	Yes *3	Planned 2	Supported	3. Power off server  4. Reconnect FC cable
		OS bundled + Storage Cluster	via switch *11	Supported GA/SP1/SP2	Planned 2	Supported GA/SP1/SP2	Planned 2	No	Planned 2	Supported	5. Power on server
		EMPD	Direct/ via switch	Supported GA	Planned 2	Supported GA	Planned 2	No	-	-	
	QLogic	EMPD + Storage Cluster	via switch *11	Supported GA	Planned 2	Supported GA	Planned 2	No	-	-	
	QLE2560/QLE2562 or OEM products	OS bundled	Direct/ via switch	Supported GA to SP5	Planned 2	Supported GA to SP5	Planned 2	Yes *3	Planned 2	Supported	
SUSE Linux Enterprise Server 12		OS bundled + Storage Cluster	via switch *11	Supported GA/SP1/SP2	Planned 2	Supported GA/SP1/SP2	Planned 2	No	Planned 2	Supported	
for AMD64/Intel 64 (including xen/KVM)		EMPD		Supported GA	Planned 2	Supported GA	Planned 2	No	-	-	
	Emulex	EMPD + Storage Cluster	FCoE switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	
	OCe10102 or OEM products	OS bundled	*11	Supported GA to SP5	Planned 2	Supported GA to SP5	Planned 2	Yes *3	Planned 2	Supported	
		OS bundled + Storage Cluster	_	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	
		EMPD		Supported GA	Planned 2	Supported GA	Planned 2	No	-	-	
	Emulex OCo14404B	EMPD + Storage Cluster	FCoE switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	
	OCe14401B or OEM products	OS bundled	*11	Supported GA to SP5	Planned 2	Supported GA to SP5	Planned 2	Yes	Planned 2	Supported	
		OS bundled + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	
		EMPD		Supported GA	Planned 2	Supported GA	Planned 2	No	-	-	
	Emulex	EMPD + Storage Cluster	FCoE switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	
	OCe14102 or OEM products	OS bundled	*11	Supported GA to SP5	Planned 2	Supported GA to SP5	Planned 2	Yes	Planned 2	Supported	
		OS bundled + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	Planned 2	

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

\*11 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

\*13 When using SLES12 SP3, please use the latest Kernel version or the latest driver version.

<sup>\*14</sup> Oracle RAC is supported on SUSE Linux Enterprise Server 12 SP2 only.

					Stora	nge		
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot
		EMPD	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	No
	MC-0JFCF*	EMPD + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No
	MC-0JFCG*	OS bundled	Direct/via switch	Supported SP4	Supported SP4	Supported SP4	Supported SP4	Yes
		OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No
		EMPD	Direct/ via switch	Supported SP3/SP4	Planned 2	Supported SP3/SP4	Planned 2	No
	MC-0JFC3*	EMPD + Storage Cluster	via switch *11	Supported SP3/SP4	Planned 2	Supported SP3/SP4	Planned 2	No
	MC-0JFC9*	OS bundled	Direct/via switch	Supported SP3/SP4	Planned 2	Supported SP3/SP4	Planned 2	Yes *3
		OS bundled + Storage Cluster	via switch *11	Supported SP3/SP4	Planned 2	Supported SP3/SP4	Planned 2	No
		EMPD	Direct/ via switch	Supported SP3/SP4	Planned 2	Supported SP3/SP4	Planned 2	No
	MC 0 IFC4*	EMPD + Storage Cluster	via switch *11	Supported SP3/SP4	Planned 2	Supported SP3/SP4	Planned 2	No
	MC-0JFC4* MC-0JFCA*	OS bundled	Direct/via switch	Supported SP3/SP4	Planned 2	Supported SP3/SP4	Planned 2	Yes *3
		OS bundled + Storage Cluster	via switch *11	Supported SP3/SP4	Planned 2	Supported SP3/SP4	Planned 2	No
		EMPD	Direct/	Supported	Planned 2	Supported SP3/SP4	Planned 2	No
		EMPD +	via switch via switch *11	SP3/SP4 Supported	Planned 2	Supported	Planned 2	No
SUSE Linux Enterprise Server 11	MC-0JFC5* MC-0JFC6*	Storage Cluster OS bundled	Direct/via switch	SP3/SP4 Supported	Planned 2	SP3/SP4 Supported SP3/SP4	Planned 2	Yes
		OS bundled +	via switch *11	SP3/SP4 Supported	Planned 2	Supported	Planned 2	*3 No
		Storage Cluster	Direct/	SP3/SP4 Supported	Supported	SP3/SP4 Supported	Supported	
		EMPD +	via switch	SP3/SP4 Supported	SP3/SP4 Supported	SP3/SP4 Supported	SP3/SP4 Supported	No
	MC-0JFC7* MC-0JFC8*	Storage Cluster	via switch *11	SP3/SP4 Supported	SP3/SP4 Supported	SP3/SP4 Supported	SP3/SP4 Supported	No Yes
		OS bundled OS bundled +	Direct/via switch	SP3/SP4	SP3/SP4	SP3/SP4	SP3/SP4	*3 *12
		Storage Cluster	via switch *11	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	No
		EMPD	Direct/ via switch	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	No
	MC-0JFCB*	EMPD + Storage Cluster	via switch *11	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	No
	MC-0JFCC*	OS bundled	Direct/via switch	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	Yes *3
		OS bundled + Storage Cluster	via switch *11	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	No
		EMPD	Direct/ via switch	Supported SP4	Supported SP4	Supported SP4	Supported SP4	No
	MC-0JFCD*	EMPD + Storage Cluster	via switch *11	Supported SP4	Supported SP4	Supported SP4	Supported SP4	No
	MC-0JFCE*	OS bundled	Direct/via switch	Supported SP4	Supported SP4	Supported SP4	Supported SP4	Yes *3
		OS bundled + Storage Cluster	via switch *11	Supported SP4	Supported SP4	Supported SP4	Supported SP4	No
0.000	but please ask server supplier if		outo CAN boot	OI T	01 +	OI T	01 4	

\*3 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Stora	age			C	Cluster	
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	SLES HA Extension	VCS 6.0/6.1 *5	Instruction for use
		EMPD	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	-	
	PY-FC351/PYBFC351/	EMPD + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	-	
	PYBFC351L PY-FC352/PYBFC352/	OS bundled	Direct/ via switch	Supported SP4	Supported SP4	Supported SP4	Supported SP4	Yes *3	Supported SP4	-	
	PYBFC352L S26361-F4044-L501/E1/E201 S26361-F4044-L502/E2/E202	OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	-	
	*15	VxVM DMP	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	Planned 2	
		EMPD	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	-	
		EMPD + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	-	
	PY-FC341/PYBFC341/ PYBFC341L PY-FC342/PYBFC342/	OS bundled	Direct/ via switch	Supported SP4	Supported SP4	Supported SP4	Supported SP4	Yes *3	Supported SP4	-	
	PY-FC342/PYBFC342/ PYBFC342L S26361-F4043-L501/E1/E201	OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	-	
	S26361-F4043-L502/E2/E202	VxVM DMP	Direct/	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
		VxVM DMP +	via switch via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	Planned 2	
		Storage Cluster  EMPD	Direct/	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	-	
		EMPD +	via switch via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	-	
	PY-FC331/PYBFC331/ PYBFC331L PY-FC332/PYBFC332/	Storage Cluster OS bundled	Direct/	Supported	Supported	Supported	Supported	Yes	Supported	_	
	PYBFC332L S26361-F5596-L501/E1/E201	OS bundled +	via switch via switch *11	SP4 Planned 2	SP4 Planned 2	SP4 Planned 2	SP4 Planned 2	*3 No	SP4 Planned 2	_	
	S26361-F5596-L502/E2/E202 *15	Storage Cluster  VxVM DMP	Direct/	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	- Idimod 2	Planned 2	
LICE Limity Enterprise Company		VxVM DMP +	via switch via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	_	Planned 2	
USE Linux Enterprise Server (x86/Intel64) SLES 11		Storage Cluster  EMPD	Direct/	Supported	Supported	Supported	Supported	No	_	-	
		EMPD +	via switch via switch *11	SP2/SP3/SP4 Supported	SP2/SP3/SP4 Supported	SP2/SP3/SP4 Supported	SP2/SP3/SP4 Supported	No	-		
	DV 50004/DV 50004	Storage Cluster OS bundled	Direct/	SP2/SP3/SP4 Supported	SP2/SP3/SP4 Supported	SP2/SP3/SP4 Supported	SP2/SP3/SP4 Supported	Yes	Supported	-	
	PY-FC221/PY-FC222/ S26361-F4994-L501/ S26361-F4994-L502	OS bundled +	via switch	SP2/SP3/SP4 Supported	SP2/SP3/SP4 Supported	SP2/SP3/SP4 Supported	SP2/SP3/SP4 Supported	*3 *12	SP4 Supported	-	
	0200011 4004 E002	Storage Cluster	via switch *11  Direct/	SP2/SP3/SP4 Supported	SP2/SP3/SP4 Supported	SP2/SP3/SP4 Supported	SP2/SP3/SP4 Supported	No Yes	SP4	-	
		VxVM DMP +	via switch	SP2/SP3/SP4 Supported	SP2/SP3/SP4 Supported	SP2/SP3/SP4 Supported	SP2/SP3/SP4 Supported	*3 *12	-	Supported Supported	
		Storage Cluster	via switch *11	SP2/SP3/SP4 Supported	SP2/SP3/SP4 Supported	SP2/SP3/SP4 Supported	SP2/SP3/SP4 Supported	No	-	6.1.1	
		EMPD +		SP2/SP3/SP4 Supported	SP2/SP3/SP4 Supported	SP2/SP3/SP4 Supported	SP2/SP3/SP4 Supported	No	-	-	
	PY-FCD12/	Storage Cluster		SP2/SP3/SP4 Supported	SP2/SP3/SP4 Supported	SP2/SP3/SP4 Supported	SP2/SP3/SP4 Supported	No Yes	- Supported	-	
	PYBFCD121/PYBFCD122 S26361-F4994-E402/	OS bundled OS bundled +	Switch blade	SP2/SP3/SP4 Supported	SP2/SP3/SP4 Supported	SP2/SP3/SP4 Supported	SP2/SP3/SP4 Supported	*3 *12	SP4 Supported	-	
	S26361-F4994-L402	Storage Cluster		SP2/SP3/SP4	SP2/SP3/SP4	SP2/SP3/SP4	SP2/SP3/SP4	No Ves	Supported SP4	-	
		VxVM DMP +		Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	Yes *3 *12	-	Supported	
		VxVM DMP + Storage Cluster	<b>5</b> ' ''	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	No	-	Supported 6.1.1	
		EMPD	Direct/ via switch	Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	No	-	-	
		EMPD + Storage Cluster	via switch *11	Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	No	-	-	
	PY-FC201/PY-FC202 PG-FC203/PG-FC204	OS bundled	Direct/ via switch	Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	Yes *3	Supported SP4	-	
	S26361-F3961-L1/ S26361-F3961-L2	OS bundled + Storage Cluster	via switch *11	Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	No	Supported SP4	-	
		VxVM DMP	Direct/ via switch	Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	Yes *3	-	Supported	
		VxVM DMP + Storage Cluster	via switch *11	Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	No	-	Supported 6.1.1	

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.
\*5 Veritas Storage Foundation does not support x86 architecture.

<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.
\*12 SAN boot is supported on 16Gbps Link Speed only.
\*15 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

					Stora	age			С	luster	
OS	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	SLES HA Extension	VCS 6.0/6.1 *5	Instruction for use
		EMPD		Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	No	-	-	· 
		EMPD + Storage Cluster		Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	No	-	-	1
	PY-FCD02	OS bundled	Switch blade/	Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	Yes *3	Supported SP4	-	1
	PG-FCD202 S26361-F3874-L1	OS bundled + Storage Cluster	Pass-through blade		Planned 2	Supported SP2/SP3/SP4	Planned 2	No	Supported SP4	-	1
		VxVM DMP		Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	Yes *3	-	Supported	
		VxVM DMP + Storage Cluster		Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	No	-	Supported 6.1.1	
		EMPD	Direct/ via switch	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	No	-	-	
	PY-FC321/PY-FC322/	EMPD + Storage Cluster	via switch *11	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	No	-	-	
	S26361-F5580-L501 S26361-F5580-E1	OS bundled	Direct/ via switch	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	Yes *3	Supported SP4	-	
	S26361-F5580-E201 S26361-F5580-L502	OS bundled + Storage Cluster	via switch *11	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	No	Supported SP4	-	
	S26361-F5580-E2 S26361-F5580-E202	VxVM DMP	Direct/ via switch	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	Yes *3	-	Supported	
		VxVM DMP +	via switch *11	Supported	Supported SP3/SP4	Supported	Supported	No	-	Supported	
		Storage Cluster  EMPD	Direct/	SP3/SP4 Supported	Supported	SP3/SP4 Supported	SP3/SP4 Supported	No	-	6.1.1	
	DV 50044/DV 50040/	EMPD +	via switch via switch *11	SP3/SP4 Supported	SP3/SP4 Supported	SP3/SP4 Supported	SP3/SP4 Supported	No	-	-	
	PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1	Storage Cluster  OS bundled	Direct/	SP3/SP4 Supported	SP3/SP4 Supported	SP3/SP4 Supported	SP3/SP4 Supported	Yes	Supported	-	
	S26361-F5313-E201 S26361-F5313-L502	OS bundled +	via switch via switch *11	SP3/SP4 Supported	SP3/SP4 Supported	SP3/SP4 Supported	SP3/SP4 Supported	*3 No	SP4 Supported	-	
	S26361-F5313-E2 S26361-F5313-E202	Storage Cluster  VxVM DMP	Direct/	SP3/SP4 Supported	SP3/SP4 Supported	SP3/SP4 Supported	SP3/SP4 Supported	Yes	SP4	Supported	
JSE Linux Enterprise Server		VxVM DMP +	via switch via switch *11	SP3/SP4 Supported	SP3/SP4 Supported	SP3/SP4 Supported	SP3/SP4 Supported	*3 No	-	Supported	
(x86/Intel64) SLES 11		Storage Cluster  EMPD	Direct/	SP3/SP4 Supported	SP3/SP4 Planned 2	SP3/SP4 Supported	SP3/SP4 Planned 2	No	-	6.1.1	
		EMPD +	via switch via switch *11	SP2/SP3/SP4 Supported	Planned 2	SP2/SP3/SP4 Supported	Planned 2	No	_	-	
	PY-FC211/PY-FC212	Storage Cluster  OS bundled	Direct/	SP2/SP3/SP4 Supported	Planned 2	SP2/SP3/SP4 Supported	Planned 2	Yes	Supported	_	
	PG-FC205/PG-FC206 S26361-F3631-L1/	OS bundled +	via switch via switch *11	SP2/SP3/SP4 Supported	Planned 2	SP2/SP3/SP4 Supported	Planned 2	*3 No	SP4 Supported	_	
	S26361-F3631-L2	Storage Cluster  VxVM DMP	Direct/	SP2/SP3/SP4 Supported	Planned 2	SP2/SP3/SP4 Supported	Planned 2	Yes	SP4	Supported	
		VxVM DMP +	via switch via switch *11	SP2/SP3/SP4 Supported	Planned 2	SP2/SP3/SP4 Supported	Planned 2	*3 No	_	Supported	
		Storage Cluster EMPD	VIG SWILOTT 11	SP2/SP3/SP4 Supported	Planned 2	SP2/SP3/SP4 Supported	Planned 2	No	_	6.1.1	
		EMPD +		SP2/SP3/SP4 Planned 2	Planned 2	SP2/SP3/SP4 Planned 2	Planned 2	No	_	-	
	DV CNOO	Storage Cluster OS bundled		Supported	Planned 2	Supported	Planned 2	Yes	Supported	_	
	PY-CN202 PG-292B S26361-F3592-L2	OS bundled +	FCoE switch *11	SP2/SP3/SP4 Planned 2	Planned 2	SP2/SP3/SP4 Planned 2	Planned 2	*3 No	SP4 Planned 2	-	
	<del></del>	Storage Cluster  VxVM DMP		Supported	Planned 2	Supported	Planned 2	Yes	i iailiiteu Z	- Supported	
		VxVM DMP +		SP2/SP3/SP4 Planned 2	Planned 2 Planned 2	SP2/SP3/SP4 Planned 2	Planned 2	*3 No	-	Planned 2	
		Storage Cluster EMPD		Supported	Planned 2 Planned 2	Supported	Planned 2 Planned 2	No	-		
		EMPD +		SP2/SP3/SP4		SP2/SP3/SP4			-	-	
	PY-CN3A1/ PYBCN3A1/PYBCN3A1L	Storage Cluster		Planned 2 Supported	Planned 2	Planned 2 Supported	Planned 2	No Yes	- Supported	-	
	S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201	OS bundled +	FCoE switch *11	SP2/SP3/SP4	Planned 2	SP2/SP3/SP4	Planned 2	*3	SP4	-	
	S26361-F5539-L211 S26361-F5539-E211	Storage Cluster		Planned 2 Supported	Planned 2	Planned 2 Supported	Planned 2	No Yes	Planned 2	- Supported	
		VxVM DMP +		SP2/SP3/SP4	Planned 2	SP2/SP3/SP4	Planned 2	*3	-	Supported	
ETERNUS supports SAN boot,	land order or see the second second line of the	Storage Cluster	conta CANI baat	Planned 2	Planned 2	Planned 2	Planned 2	No	-	Planned 2	

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.
\*5 Veritas Storage Foundation does not support x86 architecture.

<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

					Stor	age			C	Cluster	
OS	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	SLES HA Extension	VCS 6.0/6.1 *5	Instruction for use
		EMPD		Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	No	-	-	
	PY-CN302/ PYBCN302/PYBCN302L	EMPD + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	
	PY-CN302U/PYBCN302U S26361-F5250-L501	OS bundled	FCoE switch	Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	Yes *3	Supported SP4	-	
	S26361-F5250-E1 S26361-F5250-E201	OS bundled + Storage Cluster	*11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	-	
	S26361-F5302-L211 S26361-F5302-E211	VxVM DMP		Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	Yes *3	-	Supported	
		VxVM DMP + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	No	-	Planned 2	
		EMPD	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	
		EMPD + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	
	Emulex LPe32000 / LPe32002	OS bundled	Direct/ via switch	Supported SP4	Supported SP4	Supported SP4	Supported SP4	Yes *3	Supported SP4	-	
	or OEM products *15	OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	-	
		VxVM DMP	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	Planned 2	
		EMPD	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	
		EMPD + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	
SUSE Linux Enterprise Server	Emulex LPe31000 / LPe31002	OS bundled	Direct/ via switch	Supported SP4	Supported SP4	Supported SP4	Supported SP4	Yes *3	Supported SP4	-	
(x86/Intel64) SLES 11	or OEM products *15	OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	-	
		VxVM DMP	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	-	Planned 2	
		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	Planned 2	
		EMPD	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	
		EMPD + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	
	QLe2740/QLe2742/QLe2764	OS bundled	Direct/ via switch	Supported SP4	Supported SP4	Supported SP4	Supported SP4	Yes *3	Supported SP4	-	
	or OEM products	OS bundled + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	-	
		VxVM DMP	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	Yes *3	-	Planned 2	
		VxVM DMP + Storage Cluster	via switch *11	Planned 2	Planned 2	Planned 2	Planned 2	No	-	Planned 2	
		EMPD	Direct/ via switch	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	No	-	-	
		EMPD + Storage Cluster	via switch *11	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	No	-	-	
	Emulex LPe16000 / LPe16002	OS bundled	Direct/ via switch	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	Yes *3 *12	Supported SP4	-	<ol> <li>Disconnect FC cable</li> <li>Upgrade HBA firmware</li> </ol>
	or OEM products	OS bundled + Storage Cluster	via switch *11	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	No	Supported SP4	-	3. Power off server 4. Reconnect FC cable 5. Power on server
		VxVM DMP	Direct/ via switch	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	Yes *3 *12	-	Supported	J. FUWEI OITSELVEI
		VxVM DMP + Storage Cluster	via switch *11	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	No	-	Supported 6.1.1	

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*5</sup> Veritas Storage Foundation does not support x86 architecture.

\*11 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

\*12 SAN boot is supported on 16Gbps Link Speed only.

<sup>\*15</sup> When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

					Stora	nae			Cli	uster	
os	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	SLES HA Extension	VCS 6.0/6.1 *5	Instruction for use
		EMPD	Direct/ via switch	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	No	-	-	
		EMPD + Storage Cluster	via switch *11	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	No	-	-	
	QLogic QLE2690/ QLE2692/	OS bundled	Direct/ via switch	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	Yes *3	Supported SP4	-	
	QLE2694 or OEM products	OS bundled + Storage Cluster	via switch *11	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	No	Supported SP4	-	
	·	VxVM DMP	Direct/ via switch	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	Yes *3	-	Supported	
		VxVM DMP + Storage Cluster	via switch *11	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	No	-	Supported 6.1.1	
		EMPD	Direct/ via switch	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	No	-	-	
		EMPD + Storage Cluster	via switch *11	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	No	-	-	
	Qlogic QLE2660/QLE2662	OS bundled	Direct/ via switch	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	Yes *3	Supported SP4	-	
	QLE2670/QLE2672 or OEM products	OS bundled + Storage Cluster	via switch *11	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	No	Supported SP4	-	
		VxVM DMP	Direct/ via switch	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	Yes *3	-	Supported	
		VxVM DMP + Storage Cluster	via switch *11	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	Supported SP3/SP4	No	-	Supported 6.1.1	
		EMPD	Direct/ via switch	Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	No	-	-	
SUSE Linux Enterprise Server (x86/Intel64) SLES 11		EMPD + Storage Cluster	via switch *11	Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	No	-	-	When upgrading HBA firmware, please follow the procedure below.
SELS II	Emulex LPe12000/LPe12002/	OS bundled	Direct/ via switch	Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	Yes *3	Supported SP4	-	Disconnect FC cable     Disconnect HBA firmware
	LPe1250 or OEM products	OS bundled + Storage Cluster	via switch *11	Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	No	Supported SP4	-	3. Power off server  4. Reconnect FC cable
		VxVM DMP	Direct/ via switch	Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	Yes *3	-	Supported	5. Power on server
		VxVM DMP + Storage Cluster	via switch *11	Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	No	-	Supported 6.1.1	
		EMPD	Direct/ via switch	Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	No	-	-	
		EMPD + Storage Cluster	via switch *11	Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	No	-	-	
	QLogic QLE2560/QLE2562	OS bundled	Direct/ via switch	Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	Yes *3	Supported SP4	-	
	or OEM products	OS bundled + Storage Cluster	via switch *11	Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	No	Supported SP4	-	
		VxVM DMP	Direct/ via switch	Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	Yes *3	-	Supported	
		VxVM DMP + Storage Cluster	via switch *11	Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	No	-	Supported 6.1.1	
	Droods	EMPD		Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	No	-	-	
	Brocade Brocade 1860 *6 or OEM products	OS bundled	Direct/ via switch	Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	Yes *3	Supported SP4	-	
		VxVM DMP	CAN hast	Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	Yes *3	-	Supported	

\*3 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.
\*5 Veritas Storage Foundation does not support x86 architecture.
\*6 Direct connection is supported only with 16Gbps CA.

<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

		1			Stora	200			CI	luster	
				DX S4/S3 series	DX S4 series	DX S5 series	<u> </u>	4		เนอเษเ	
os	НВА	Path Failover	Connected type	(except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	(except DX8900 S4)  AF series (except AF S3 series)  (FC 32Gbps port)	AF S3 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	SLES HA Extension	VCS 6.0/6.1 *5	Instruction for use
		EMPD		Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	No	-	-	
	Brocade Brocade 815/825 or OEM products	OS bundled	via switch	Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	Yes *3	Supported SP2/SP3/SP4	-	
	or OLIVI products	VxVM DMP		Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	Yes *3	-	Supported	
		EMPD		Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	No	-	-	
		EMPD + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	
	Emulex	OS bundled	FCoE switch	Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	Yes *3	Supported SP2/SP3/SP4	-	
	OCe10102 or OEM products	OS bundled + Storage Cluster	*11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	-	
		VxVM DMP		Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	Yes *3	-	Supported	
		VxVM DMP + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	No	-	Planned 2	
		EMPD		Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	No	-	-	
		EMPD + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	
SUSE Linux Enterprise Server (x86/Intel64)	Emulex OCe14401B	OS bundled	FCoE switch	Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	Yes	Supported SP2/SP3/SP4	-	
SLES 11	or OEM products	OS bundled + Storage Cluster	*11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	-	
		VxVM DMP		Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	Yes *3	-	Supported	
		VxVM DMP + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	No	-	Planned 2	
		EMPD		Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	No	-	-	
		EMPD + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	No	-	-	
	Emulex OCe14102	OS bundled	FCoE switch	Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	Yes	Supported SP2/SP3/SP4	-	
	or OEM products	OS bundled + Storage Cluster	*11	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	-	
		VxVM DMP		Supported SP2/SP3/SP4	Planned 2	Supported SP2/SP3/SP4	Planned 2	Yes *3	-	Supported	
		VxVM DMP + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	No	-	Planned 2	
	Procedo	EMPD		Supported SP2/SP3/SP4	N.A.	Supported SP2/SP3/SP4	N.A.	No	-	-	
	Brocade Brocade 415/425 or OEM products	OS bundled	via switch	Supported SP2/SP3/SP4	N.A.	Supported SP2/SP3/SP4	N.A.	Yes	Supported SP2/SP3/SP4	-	
*3 ETERNI IS supports SAN boot b		VxVM DMP		Supported SP2/SP3/SP4	N.A.	Supported SP2/SP3/SP4	N.A.	Yes *3	-	Supported	

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.
\*5 Veritas Storage Foundation does not support x86 architecture.

<sup>\*11</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

os	НВА	Path Failover	Connected type	Storage  DX S3 series  AF series/DX200F  (except AF S3 series)	SAN boot	Instruction for use
SUSE Linux Enterprise Server (Linux on Power) SLES 11	5735/5273	OS bundled	Direct/via switch	Supported SP3	Yes *3	

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

## SLES (iSCSI connection) Edition 183: 2023/12/22

#### Notes

- Please contact the server supplier for the server support status of OS, multipath software, HBA and clusterware listed here.
- Please contact the product supplier for operating condition of multipath software and HBA listed here.
- Please use the latest version of HBA firmware and driver unless note is stated.
- Please use the latest version of server BIOS unless note is stated.
- Please contact the clusterware supplier for combination of Server, OS version, multipath software, HBA, and clusterware version.
- Direct connection with NIC/CNA of which speed is 25Gbps or more is not supported.
- On Oracle Linux and SUSE Linux Enterprise Server environment, UNMAP function is not supported on Deduplication/Compression volume.
- Trademark symbols have been omitted from this document.
- HBA for PRIMEQUEST is shown as MC-0JCEn\*, the character "\*" can be any character applicable. Ex) MC-0JCE6\* means MC-0JCE61 and MC-0JCE62 are applicable.
- Storage Cluster function is not supported on DX60 S5/S4/S3.
- In this document, the following abbreviations are used;

**EMPD (ETERNUS Multipath Driver), PCL (PRIMECLUSTER)** 

	iSCSI				Storage	10001	Cluster	
os	Initiator type	NIC or HBA	Path Failover	Connected type	DX S5/S4/S3 series AF series/DX200F	iSCSI boot	SLES HA Extension	Instruction for use
			OS bundled	Direct / via switch *3	Supported GA	No	Planned 2	
		NIC for PRIMEQUEST 3000	OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	*9
	Software		OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	
011051:	Initiator		OS bundled	Direct / via switch *3	Supported GA	No	Planned 2	
SUSE Linux Enterprise Server 15 for AMD64/Intel 64 (including xen/KVM)		NIC for PRIMEQUEST 2000	OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	*9
*11			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	
			OS bundled	Direct / via switch *3	Supported GA to SP5	No	Planned 2	
	Software Initiator	NIC and CNA for PRIMERGY *2	OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	*9
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	

<sup>\*2</sup> Please contact server supplier about available NIC and CNA.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*9</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

<sup>\*11</sup> Jumbo Frame is not supported.

	iSCSI				Storage		Cluster	
os	Initiator type	NIC or HBA	Path Failover	Connected type	DX S5/S4/S3 series AF series/DX200F	iSCSI boot	SLES HA Extension	Instruction for use
	Hardware Initiator	PY-CN202 PG-292B PG-CND201 S26361-F3592-L2	OS bundled	Direct / via switch	Planned 2	Planned 2	Planned 2	
		PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	OS bundled		Planned 2	Planned 2	Planned 2	
SUSE Linux Enterprise Server 15 for AMD64/Intel 64		PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	OS bundled	Direct / via switch	Planned 2	Planned 2	Planned 2	
(including xen/KVM) *11		PY-CND02 S26361-F3592-L532 BX92xS3 Onboard CNA	OS bundled	Switch blade	Planned 2	Planned 2	Planned 2	
			OS bundled	Direct / via switch *3	Supported GA to SP4	No	Planned 2	
	Software Initiator	NIC / CNA *2	OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	*9
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	
		Emulex OCe14401B	OS bundled	Direct / via switch	Planned 2			
	Hardware Initiator	Emulex OCe14102	OS bundled	Direct / via switch	Planned 2			
		Emulex OCe11102	OS bundled	Direct / via switch	Planned 2			

<sup>\*2</sup> Please contact server supplier about available NIC and CNA.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*9</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O. \*11 Jumbo Frame is not supported.

	iSCSI	NIC or HBA			Storage		Cluster	
OS	Initiator type		Path Failover	Connected type	DX S5/S4/S3 series AF series/DX200F	iSCSI boot	SLES HA Extension	Instruction for use
			EMPD	Direct / via switch *3	Supported SP2 to SP4	No	N.A.	
	N	NIC for PRIMEQUEST 3000	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	N.A.	*9
SUSE Linux Enterprise Server 12	Software	e	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	
for AMD64/Intel 64 (including xen/KVM)	Initiator		EMPD	Direct / via switch *3	Supported GA to SP5	No	N.A.	
		NIC for PRIMEQUEST 2000 *2	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	N.A.	*9
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	

<sup>\*2</sup> Please contact server supplier about available NIC and CNA.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, please use Catalyst firmware 12.2(54)SG1.

<sup>\*9</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

OS	iSCSI Initiator type	NIC or HBA	Path Failover	Connected type	Storage  DX S5/S4/S3 series  AF series/DX200F	iSCSI boot	Cluster SLES HA Extension	Instruction for use
			EMPD	Direct / via switch *3	Supported GA	No	Planned 2	
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	N.A.	*9
	Software	NIC and CNA for PRIMERGY	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	
	Initiator	*2	OS bundled	Direct / via switch *3	Supported GA to SP4	No	Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported SP1	No	Planned 2	*9
SUSE Linux Enterprise Server 12			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	
for AMD64/Intel 64 (including xen/KVM)		PY-CN202 PG-292B	EMPD	Direct /	Planned 2			
		PG-CND201 S26361-F3592-L2	OS bundled	via switch	Planned 2			
	Hardware	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	EMPD	Direct /	Planned 2			
	Initiator		OS bundled	via switch	Planned 2			
		PY-CND02 S26361-F3592-L532 BX92xS3 Onboard CNA	EMPD	Switch blade	Planned 2			
			OS bundled	Switch blade	Planned 2			

<sup>\*2</sup> Please contact server supplier about available NIC and CNA.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*9</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

					Storage		Cluster	
os	iSCSI Initiator type	NIC or HBA	Path Failover	Connected type	DX S5/S4/S3 series AF series/DX200F	iSCSI boot	SLES HA Extension	Instruction for use
			EMPD	Direct / via switch *3	Supported GA	No	-	
			EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	N.A.	*9
	Software	Intel NIC / CNA	EMPD + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	
	Initiator	*2	OS bundled	Direct / via switch *3	Supported GA to SP4	No	Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported SP1	No	Planned 2	*9
SUSE Linux Enterprise Server 12 for AMD64/Intel 64 (including xen/KVM)			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	N.A.	N.A.	N.A.	
(including xerritain)		Emulex OCe10102	EMPD	Direct /	Planned 2			
			OS bundled	via switch	Planned 2			
	Hardware	Emulex	EMPD	Direct /	Planned 2			
	Initiator	OCe14102	OS bundled	via switch	Planned 2			
		Emulex	EMPD	Direct /	Planned 2			
		OCe11102	OS bundled	via switch	Planned 2			

<sup>\*2</sup> Please contact server supplier about available NIC and CNA.

<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*9</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

	iSCSI				Storage		Cluster	
os	Initiator type	NIC or HBA	Path Failover	Connected type	DX S5/S4/S3 series AF series/DX200F	iSCSI boot	SLES HA Extension	Instruction for use
SUSE Linux Enterprise Server for x86/EM64T/Xen	Software	NIC for PRIMEQUEST 2000	EMPD	Direct /	Supported SP3/SP4	No	Planned 2	
SLES11	Initiator	*2	OS bundled	via switch *3	Supported SP3/SP4	No	Planned 2	
	Software	NIC and CNA for PRIMERGY	EMPD	Direct /	Supported SP2/SP3/SP4	No	-	
	Initiator	*2	OS bundled	via switch *3	Supported SP2/SP3/SP4	140	Supported	
		PY-CN202 PG-292B	EMPD	Direct /	Planned 2			
		PG-CND201 S26361-F3592-L2	OS bundled	via switch	Planned 2			
	Hardware Initiator	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211  PY-CND02 S26361-F3592-L532 BX92xS3 Onboard CNA	EMPD	Direct /	Planned 2			
			OS bundled	via switch	Planned 2			
SUSE Linux Enterprise Server			EMPD	Switch blade	Planned 2			
for x86/EM64T/Xen SLES11 *7			OS bundled	Owner blade	Planned 2			
	Software	Intel NIC / CNA	EMPD	Direct /	Supported SP2/SP3/SP4	No	-	
	Initiator	inter NIC / CIVA	OS bundled	via switch *3	Supported SP2/SP3/SP4	NO	Supported	
		Emulex	EMPD	Direct /	Planned 2			
		OCe10102	OS bundled	via switch	Planned 2			
	Hardware	Emulex	EMPD	Direct /	Planned 2			
	Initiator	OCe14102	OS bundled	via switch	Planned 2			
		Emulex	EMPD	Direct /	Planned 2			
*2 Please contact server supplier about		OCe11102	OS bundled	via switch	Planned 2			

<sup>\*2</sup> Please contact server supplier about available NIC and CNA.

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<sup>\*3</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used. \*7 ETERNUS's 10GBASE-T interface connection is not supported on SLES11 SP2..

## SLES (SAS connection) Edition 183: 2023/12/22

### Notes

- Please contact the server supplier for the server support status of OS, multipath software, HBA and clusterware listed here.
- Please contact the product supplier for operating condition of multipath software and HBA listed here.
- Please contact the clusterware supplier for combination of Server, OS version, multipath software, HBA, and clusterware version.
- Please use the latest version of HBA firmware and driver unless note is stated.
- Please use the latest version of server BIOS unless note is stated.
- T10-DIF function is not supported. The ETERNUS volume to be used should be other than T10-DIF volume.
- Please contact the server supplier for connection availability of HBA and FC switch.
- On Oracle Linux and SUSE Linux Enterprise Server environment, UNMAP function is not supported on Deduplication/Compression volume.
- Trademark symbols have been omitted from this document.
- In this document, the following abbreviations are used;

**EMPD (ETERNUS Multipath Driver), PCL (PRIMECLUSTER)** 

				Sto	rage		
os	НВА	Path Failover	Connected type	DX60 S4/S3 DX100 S3 DX200 S3 (SAS 6Gbps port)	DX60 S5/S4 DX100 S5/S4 DX200 S5/S4 (SAS 12Gbps port)	SAS boot	Instruction for use
	PY-SC4FAE/ PYBSC4FAE/PYBSC4FAEL	OS bundled	Direct	Planned 2	Supported SP4/SP5	No	
	PY-SC3FBE/ PYBSC3FBE/PYBSC3FBEL	OS bundled	Direct	Planned 2	Supported SP3/SP4/SP5	No	
	PY-SC3FBF/PYBSC3FBF/ PYBSC3FBFL S26361-F5793-E251	OS bundled	Direct	Planned 2	Supported SP3/SP4/SP5	No	
SUSE Linux	PY-SC3FE/PYBSC3FE/PYBSC3FEL S26361-F3845-L501/ S26361-F3845-E1/ S26361-F3845-E201	OS bundled	Direct	Planned 2	Supported GA/SP1/SP2	No	
Enterprise Server 15 for AMD64/Intel 64	PY-SC2Z0/PYBSC2Z0 S26361-F3628-L501/E1	OS bundled	Direct	Planned 2	Planned 2	No	
(including xen/KVM)	LSI SAS9500-16e	OS bundled	Direct	Planned 2	Supported SP4/SP5	No	
	LSI SAS9400-8e	OS bundled	Direct	Planned 2	Supported SP3/SP4/SP5	No	
	LSI SAS9300-8e	OS bundled	Direct/ via switch *3	Planned 2	Supported GA/SP1/SP2	No	
	LSI SAS9200-8e	OS bundled	Direct/ via switch *3	Planned 2	Planned 2	No	

<sup>\*3</sup> Only direct connection is supported on DX100 S4 and DX200 S4.

				Stor	rage		
os	НВА	Path Failover	Connected type	DX60 S4/S3 DX100 S3 DX200 S3 (SAS 6Gbps port)	DX60 S5/S4 DX100 S5/S4 DX200 S5/S4 (SAS 12Gbps port)	SAS boot	Instruction for use
	PY-SC3FE/PYBSC3FE/PYBSC3FEL S26361-F3845-L501/	EMPD	Direct	Supported GA	Supported GA	No	
	S26361-F3845-E1/ S26361-F3845-E201	OS bundled	Direct	Supported GA to SP5	Supported GA to SP5	No	
	PY-SC2Z0/PYBSC2Z0 S26361-F3628-L501/	EMPD	Direct	Supported GA	Supported GA	No	
	S26361-F3628-E1	OS bundled	Direct	Supported GA to SP5	Supported GA to SP5	No	
	PY-SCD08/PYBSCD082 S26361-F4480-L1/	EMPD	Switch blade/	Supported GA	Supported GA	No	
SUSE Linux Enterprise Server 12	S26361-F4480-E1	OS bundled	Pass-through blade	Supported GA to SP5	Supported GA to SP5	No	
for AMD64/Intel 64 (including xen/KVM)	1.01.04.00000.0	EMPD	Direct/	Supported GA	Supported GA	No	
	LSI SAS9300-8e	OS bundled	via switch *3	Supported GA to SP5	Supported GA to SP5	No	
	LSI SAS9200-8e	EMPD	Direct/	Supported GA	Supported GA	No	
	LOI OAGSZOO-OG	OS bundled	via switch *3	Supported GA to SP5	Supported GA to SP5	No	
	LSI SAS3442E-R	EMPD	Direct	Supported GA	-	No	
	LOI OAOOTTEL-IX	OS bundled	Direct	Supported GA to SP5		No	

<sup>\*3</sup> Only direct connection is supported on DX100 S4 and DX200 S4.

				Sto	rage		
os	НВА	Path Failover	Connected type	DX60 S4/S3 DX100 S3 DX200 S3 (SAS 6Gbps port)	DX60 S5/S4 DX100 S5/S4 DX200 S5/S4 (SAS 12Gbps port)	SAS boot	Instruction for use
	PY-SC3FE/PYBSC3FE/PYBSC3FEL S26361-F3845-L501/	EMPD	Direct	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	No	
	S26361-F3845-E1/ S26361-F3845-E201	OS bundled	Direct	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	No	
	PY-SC2Z0/PYBSC2Z0	EMPD	Direct	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	No	
	S26361-F3628-L501/ S26361-F3628-E1	OS bundled	Direct	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	No	
	PY-SCD08/PYBSCD082 S26361-F4480-L1/ S26361-F4480-E1	EMPD	Switch blade/	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	No	
		OS bundled	Pass-through blade	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	No	
SUSE Linux Enterprise Server	PY-SC1Y0/PY-SC1Y0L/ PYBSC1Y0/PYBSC1Y0L S26361-F3271-L1/L201/E1/E201	EMPD	Direct	Supported SP2/SP3/SP4	-	No	
(x86/EM64T/Xen) SLES11		OS bundled	Direct	Supported SP2/SP3/SP4	-	No	
	LSI SAS9300-8e	EMPD	Direct/	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	No	
	LSI SAS9300-86	OS bundled	via switch *3	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	No	
	1 51 5 4 5 0 2 0 0 0 0 0	EMPD	Direct/	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	No	
	LSI SAS9200-8e	OS bundled	via switch *3	Supported SP2/SP3/SP4	Supported SP2/SP3/SP4	No	
	I SI SASSAASE D	EMPD	Direct	Supported SP2/SP3/SP4	-	No	
	LSI SAS3442E-R	OS bundled	Direct	Supported SP2/SP3/SP4	-	No	

<sup>\*3</sup> Only direct connection is supported on DX100 S4 and DX200 S4.

### Linux (FCoE connection) Edition 155: 2020/4/9

#### Notes

- Please contact the server supplier for the server support status of OS, multipath software, CNA and clusterware listed here.
- Please contact the product supplier for operating condition of multipath software and CNA listed here.
- Please contact the clusterware supplier for combination of Server, OS version, multipath software, HBA, and clusterware version.
- Please use the latest version of CNA firmware and driver unless note is stated.
- Please use the latest version of server BIOS unless note is stated.
- Please contact the server supplier for connection availability of CNA and FCoE switch.
- ETERNUS DX60 S3 is not applicable since FCoE interface is not supported.
- On Oracle Linux and SUSE Linux Enterprise Server environment, UNMAP function is not supported on Deduplication/Compression volume.
- Trademark symbols have been omitted from this document.
- HBA for PRIMEQUEST is shown as MC-0JCEn\*, the character "\*" can be any character applicable. Ex) MC-0JCE6\* means MC-0JCE61 and MC-0JCE62 are applicable.
- In this document, the following abbreviations are used;

EMPD (ETERNUS Multipath Driver), PCL (PRIMECLUSTER)

		Connected	Storage	FCoE _	Cluster		
os	OS CNA	Path Failover	type	DX S3 series	hoot	PCL 4.3 to 4.5	Instruction for use
	MC-0JCEL*	EMPD	FCoE switch	Supported 7.3/7.4	Yes	Planned 2	
Red Hat Enterprise Linux	Wie deel	OS bundled	1 OOL OWNOR	Planned 2	100	Planned 2	
(Intel64) RHEL7 & KVM	MC-0JCE6*	EMPD	FCoE switch	Supported 7.2/7.3/7.4	Yes -	Planned 2	
		OS bundled		Planned 2		Planned 2	

	PY-CN202 PG-292 S26361-F3592-L2	EMPD OS bundled	FCoE switch	Supported 7.0/7.1/7.2 Supported	Yes	Planned 2	
	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501	EMPD		7.0/7.1/7.2 Supported 7.0/7.1/7.2		Planned 2	
Red Hat Enterprise	S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	OS bundled	FCoE switch	Supported 7.0/7.1/7.2	Yes	Planned 2	
Linux (Intel64) RHEL7 & KVM	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501	EMPD	FCoE switch	Supported 7.0/7.1/7.2	Vaa	Planned 2	
	S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	OS bundled		Supported 7.0/7.1/7.2	Yes	Planned 2	
	PY-CND02	EMPD	Switch blade	Supported 7.0/7.1/7.2	Vac	Planned 2	
	S26361-F3592-L532 BX92xS3 Onboard CNA	OS bundled	Switch blade	Supported 7.0/7.1/7.2	Yes	Planned 2	

	OS CNA		Connected - type	Storage	FCoE	Cluster	
OS		Path Failover		DX S3 series	boot	PCL 4.3 to 4.5	Instruction for use
	Emulex	EMPD	FCoE switch	Supported 7.0/7.1/7.2	Yes *1	Planned 2	
	OCe10102	OS bundled	T GOL SWIGH	Supported 7.0/7.1/7.2	Yes *1	Planned 2	
	Emulex	EMPD	FCoE switch	Supported 7.0/7.1/7.2	Yes *1	Planned 2	
Red Hat Enterprise Linux	OCe14401B	OS bundled	FCOE SWILCH	Supported 7.0/7.1/7.2	Yes *1	Planned 2	
(Intel64) RHEL7 & KVM	Emulex	EMPD	F0 F :: 1	Supported 7.0/7.1/7.2	Yes *1	Planned 2	
	OCe14102 Emulex	OS bundled	FCoE switch	Supported 7.0/7.1/7.2	Yes *1	Planned 2	
		EMPD	FCoE switch	Supported 7.0/7.1/7.2	Yes *1	Planned 2	
OCe11102	OS bundled	I COL SWILCH	Supported 7.0/7.1/7.2	Yes *1	Planned 2		

<sup>\*1</sup> ETERNUS supports FCoE boot, but please ask server supplier if the connected server supports FCoE boot.

			Connected	Storage	FCoE	Cluster	
OS	CNA	Path Failover	type	DX S3 series	boot	PCL 4.3 to 4.5	Instruction for use
	MC-0JCE6*	EMPD	FCoE switch	Supported 6.6 to 6.10	Yes	Supported	
	MC-03CE0	OS bundled	FCOE SWILCH	Supported 6.6 to 6.10	Yes	Supported	
	PY-CN202	EMPD	FCoE switch	Supported 6.3 to 6.7	Yes	Supported	
	S26361-F3592-L2	OS bundled	1 GOL SWIGH	Supported 6.3 to 6.7		Supported	
Dad Hat Enterprise	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	EMPD	FCoE switch	Supported 6.3 to 6.10	Yes	Supported	
Red Hat Enterprise Linux (x86/Intel64) RHEL6 & KVM		OS bundled		Supported 6.3 to 6.10		Supported	
	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501	EMPD	FCoE switch	Supported 6.3 to 6.10		Supported	
	S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	OS bundled		Supported 6.3 to 6.10		Supported	
	PY-CND02 S26361-F3592-L532 BX92xS3 Onboard CNA	EMPD	Switch blade	Supported 6.3 to 6.10	Yes	Supported	
		OS bundled	Switch blade	Supported 6.3 to 6.10		Supported	

	Emulex	EMPD	FCoE switch	Supported 6.4 to 6.7	Yes *1	Supported
	OCe10102	OS bundled	1	Supported 6.4 to 6.7	Yes *1	Supported
	Emulex	EMPD	FCoE switch	Supported 6.4 to 6.10	Yes *1	Supported
Red Hat Enterprise Linux	OCe14401B	OS bundled	1 COL SWILOTT	Supported 6.3 to 6.10	Yes *1	Supported
(x86/Intel64) RHEL6 & KVM	Emulex	EMPD	FCoE switch	Supported 6.4 to 6.10	Yes *1	Supported
	OCe14102	OS bundled		Supported 6.3 to 6.10	Yes *1	Supported
	Emulex	EMPD	FCoE switch	Supported 6.4 to 6.10	Yes *1	Supported
	OCe11102	OS bundled	T GOL SWITCH	Supported 6.3 to 6.10	Yes *1	Supported

<sup>\*1</sup> ETERNUS supports FCoE boot, but please ask server supplier if the connected server supports FCoE boot.
\*2 PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

			Connected	Storage	FCoE	Cluster	
os	CNA	Path Failover	type	DX S3 series	boot	PCL 4.2/4.3 *2	Instruction for use
	PY-CN202 PG-292	EMPD	FCoE switch	Supported 5.9 to 5.11	Yes	Supported	
	S26361-F3592-L2	OS bundled	1 GOL SWIGH	Supported 5.9 to 5.11	163	Supported	
	PG-CND201	EMPD	Switch blade	Supported 5.9 to 5.11	Yes	Supported	
	PG-CND201	OS bundled	Switch blade	Supported 5.9 to 5.11	163	Supported	
Dad Hat Entermyine	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	EMPD	FCoE switch	Supported 5.9 to 5.11	Yes	Supported	
Red Hat Enterprise Linux (x86/Intel64) RHEL5		OS bundled		Supported 5.9 to 5.11		Supported	
	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	EMPD	FCoE switch	Supported 5.9 to 5.11		Supported	
		OS bundled		Supported 5.9 to 5.11	Yes	Supported	
	PY-CND02 S26361-F3592-L532 BX92xS3 Onboard CNA	EMPD	Switch blade	Supported 5.9 to 5.11	Yes *1	Supported	
		OS bundled	OWITOH DIAUC	Supported 5.9 to 5.11	Yes *1	Supported	

	Emulex OCe10102	EMPD	- FCoE switch -	Supported 5.9 to 5.11	Yes *1	Supported
		OS bundled		Supported 5.9 to 5.11	Yes *1	Supported
	Emulex OCe14401B	EMPD	FCoE switch	Supported 5.9 to 5.11	Yes *1	Supported
Red Hat Enterprise Linux		OS bundled	1 GOL SWIGH	Supported 5.9 to 5.11	Yes *1	Supported
(x86/Intel64) RHEL5	Emulex OCe14102	EMPD	FCoE switch	Supported 5.9 to 5.11	Yes *1	Supported
		OS bundled		Supported 5.9 to 5.11	Yes *1	Supported
	Emulex OCe11102	EMPD	FCoE switch -	Supported 5.9 to 5.11	Yes *1	Supported
		OS bundled		Supported 5.9 to 5.11	Yes *1	Supported

<sup>\*1</sup> ETERNUS supports FCoE boot, but please ask server supplier if the connected server supports FCoE boot.
\*2 PCL's I/O Fencing function is used for cluster configuration among guest OSs on VMware.

			Connected	Storage	FCoE	
OS	CNA	Path Failover	type	DX S3 series	boot	Instruction for use
	MC-0JCEL*	EMPD	FCoE switch	Supported GA	No	
SUSE Linux	WO GOOLL	OS bundled	1 GGE GWIGH	Supported GA to SP4	No	
Enterprise Server 12	MC-0JCE6*	EMPD	FCoE switch	Supported GA	No	
	WO-000L0	OS bundled	FCOE SWITCH	Supported GA to SP4	No	
	PY-CN202 PG-292	EMPD	FCoE switch	Supported GA	No	
	S26361-F3592-L2	OS bundled	1 COL SWITCH	Supported GA to SP4	No	
	PG-CND201	EMPD	Switch blade	Supported GA	No	
		OS bundled		Supported GA to SP4	No	
QUQE Linux	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	EMPD	FCoE switch	Supported GA	No	
SUSE Linux Enterprise Server 12 for AMD64/Intel 64 (including xen/KVM)		OS bundled		Supported GA to SP4	No	
	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501	EMPD	FCoE switch	Supported GA	No	
	S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	OS bundled	FOOE SWILLI	Supported GA to SP4	No	
	PY-CND02 S26361-F3592-L532 BX92xS3 Onboard CNA	EMPD	Switch blade	Supported GA	No	
		OS bundled	Switch blade	Supported GA to SP4	No	

		1			
			Connected	Storage	FC <sub>0</sub> E
os	CNA	Path Failover	type	DX S3 series	boot
	Emulex	EMPD	FCoE switch	Supported GA	No
	OCe10102	OS bundled	TOOL SWITCH	Supported GA to SP4	No
	Emulex OCe14401B	EMPD	FCoE switch	Supported GA	No
SUSE Linux Enterprise Server 12		OS bundled		Supported GA to SP4	No
for AMD64/Intel 64 (including xen/KVM)	Emulex OCe14102 Emulex OCe11102	EMPD	FCoE switch	Supported GA	No
		OS bundled		Supported GA to SP4	No
		EMPD	FCoE switch	Supported GA	No
		OS bundled	POOE SWITCH	Supported GA to SP4	No

			Connected	Storage	FCoE	
os	CNA	Path Failover	type	DX S3 series	boot	Instruction for use
SUSE Linux	MC-0JCE6*	EMPD	FCoE switch	Planned 2 SP3/SP4	No	
Enterprise Server 11	WC-03CE0	OS bundled	FOUE SWILCH	Planned 2 SP3	Np	
	PY-CN202 PG-292	EMPD	FCoE switch	Supported SP2/SP3/SP4	No	
	S26361-F3592-L2	OS bundled	FCOE SWITCH	Supported SP2/SP3/SP4	No	
	PG-CND201	EMPD	Switch blade	Supported SP2/SP3/SP4	No	
		OS bundled		Supported SP2/SP3/SP4	No	
	PY-CN3A1/ PYBCN3A1/PYBCN3A1L S26361-F5539-L501 S26361-F5539-E1 S26361-F5539-E201 S26361-F5539-L211 S26361-F5539-E211	EMPD	FCoE switch	Supported SP2/SP3/SP4	No	
SUSE Linux Enterprise Server (x86/EM64T/Xen) SLES11		OS bundled		Supported SP2/SP3/SP4	No	
	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501	EMPD	FCoE switch	Supported SP2/SP3/SP4	No	
	S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	OS bundled	FCOE SWITCH	Supported SP2/SP3/SP4	No	
	PY-CND02 S26361-F3592-L532 BX92xS3 Onboard CNA	EMPD	Switch blade	Supported SP2/SP3/SP4	No	
		OS bundled	Switch plade	Supported SP2/SP3/SP4	No	

	Emulex	EMPD	FCoE switch -	Supported SP2/SP3/SP4	No
	OCe10102	OS bundled		Supported SP2/SP3/SP4	No
	Emulex OCe14401B	EMPD	FCoE switch	Supported SP2/SP3/SP4	No
SUSE Linux Enterprise Server		OS bundled		Supported SP2/SP3/SP4	No
(x86/EM64T/Xen) SLES11	Emulex OCe14102	EMPD	FCoE switch	Supported SP2/SP3/SP4	No
		OS bundled		Supported SP2/SP3/SP4	No
	Emulex OCe11102	EMPD	ECoE quitab	Supported SP2/SP3/SP4	No
		OS bundled	FCoE switch	Supported SP2/SP3/SP4	No

<sup>\*1</sup> ETERNUS supports FCoE boot, but please ask server supplier if the connected server supports FCoE boot.

			Connected type	Storage	FCoE	
OS	CNA	Path Failover		DX S3 series	boot	Instruction for use
Oracle Linux 7	MC-0JCEL*	OS bundled	FCoE switch	Supported 7.4	Yes *1	
(x86-64)	MC-0JCE6*	OS bundled	FCoE switch	Supported 7.2/7.3/7.4	Yes *1	
	PY-CN202 PG-292 S26361-F3592-L2	OS bundled	FCoE switch	Planned 2	Yes *1	
	PG-CND201	OS bundled	Switch blade	Planned 2	Yes *1	
Oracle Linux (x86_64) Red Hat Compatible Kernel Unbreakable Enterprise	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	OS bundled	FCoE switch	Planned 2	Yes *1	
Oracle Linux 7	PY-CND02 S26361-F3592-L532 BX92xS3 Onboard CNA	OS bundled	Switch blade	Planned 2	Yes *1	
	Emulex OCe10102	OS bundled	FCoE switch	Planned 2	Yes *1	
	Emulex OCe14102	OS bundled	FCoE switch	Planned 2	Yes *1	
	Emulex OCe11102	OS bundled	FCoE switch	Planned 2	Yes *1	

<sup>\*1</sup> ETERNUS supports FCoE boot, but please ask server supplier if the connected server supports FCoE boot.

	ON A	D-#- E "	Connected	Storage	FCoE	
os	CNA	Path Failover	type	DX S3 series	boot	
Oracle Linux 6 (x86-64)	MC-0JCE6*	OS bundled	FCoE switch	Supported 6.6/6.7	Yes	
	PY-CN202 PG-292 S26361-F3592-L2	OS bundled	FCoE switch	Supported 6.4/6.5	Yes *1	
	PG-CND201	OS bundled	Switch blade	Supported 6.4/6.5	Yes *1	
Oracle Linux (x86_64) Red Hat Compatible Kernel Unbreakable Enterprise	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	OS bundled	FCoE switch	Planned 2	Yes *1	
Oracle Linux 6	PY-CND02 S26361-F3592-L532 BX92xS3 Onboard CNA	OS bundled	Switch blade	Supported 6.4/6.5	Yes *1	
	Emulex OCe10102	OS bundled	FCoE switch	Supported 6.4/6.5	Yes *1	
	Emulex OCe14102	OS bundled	FCoE switch	Planned 2	Yes *1	
	Emulex OCe11102	OS bundled	FCoE switch	Supported 6.4/6.5	Yes *1	

<sup>\*1</sup> ETERNUS supports FCoE boot, but please ask server supplier if the connected server supports FCoE boot.

			Connected	Storage	FCoE	
OS	CNA	Path Failover	type	DX S3 series	boot	Instruction for use
	PY-CN202 PG-292 S26361-F3592-L2	OS bundled	FCoE switch	Supported 5.9/5.10	Yes *1	
	PG-CND201	OS bundled	Switch blade	Supported 5.9/5.10	Yes *1	
Oracle Linux (x86_64) Red Hat Compatible Kernel Unbreakable Enterprise	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	OS bundled	FCoE switch	Planned 2	Yes *1	
Oracle Linux 5	PY-CND02 S26361-F3592-L532 BX92xS3 Onboard CNA	OS bundled	Switch blade	Supported 5.9/5.10	Yes *1	
	Emulex OCe10102	OS bundled	FCoE switch	Supported 5.9/5.10	Yes *1	
	Emulex OCe14102	OS bundled	FCoE switch	Planned 2	Yes *1	
	Emulex OCe11102	OS bundled	FCoE switch	Supported 5.9/5.10	Yes *1	

<sup>\*1</sup> ETERNUS supports FCoE boot, but please ask server supplier if the connected server supports FCoE boot.

## VM (FC connection) Edition 183: 2023/12/22

Notes - Please contact the server supplier for the server support status of OS, multipath software, HBA and clusterware listed here.

- Please contact the product supplier for operating condition of multipath software and HBA listed here.
- Please contact the clusterware supplier for combination of Server, OS version, multipath software, HBA, and clusterware version.
- Functions supported by clusterware depends on each clusterware supplier. Please contact the clusterware supplier for the extended support functions such as geo cluster..
- Please use the latest version of HBA firmware and driver unless note is stated.
- Please use the latest version of server BIOS unless note is stated.
- Please contact the server supplier for connection availability of HBA and FC switch.
- On Oracle VM and Citrix Hypervisor (XenServer) environment, UNMAP function is not supported on Deduplication/Compression volume.
- Trademark symbols have been omitted from this document.
- HBA for PRIMEQUEST is shown as MC-0JFCn\*, the character "\*" can be any character applicable. Ex) MC-0JFC3\* means MC-0JFC31 and MC-0JFC3L are applicable.
- VMware's VSAN is not supported.
- VMware Multi-Pathing plug-in for ETERNUS is referred to as "VAMP" in this document. <a href="https://www.fujitsu.com/global/support/products/computing/storage/download/vmware-mp-plug-in.html">https://www.fujitsu.com/global/support/products/computing/storage/download/vmware-mp-plug-in.html</a>
  For supported vSphere editions, refer to the operating environment or software documentation on the VAMP public page.
- Please refer to "VMware VVOL" part for VMware VVOL support status.
- Storage Cluster function is not supported on DX60 S5/S4/S3.
- FC 8Gbps (maximum transfer rate) of "DX S5 series" is supported only on DX60 S5.

					Stor	rage			Cluster	
VM	VM HBA*20	Path Failover*19	Connected type*21	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port) *17	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port) *17	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)*18	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port) *18	SAN boot	HA/FT *1	Instruction for use
		VAMP	Direct/	Supported	Supported	Supported	Supported	Yes	Supported	
		1.3.0	via switch	U1	U1	U1	U1	163	Supported	
	MC-0JFCM*	VAMP + Storage Cluster	via switch *8	Supported U1	Supported U1	Supported U1	Supported U1	Yes	Supported	*7
	MC-0JFCN* *15	OS bundled	Direct/ via switch	Supported U1	Supported U1	Supported U1	Supported U1	Yes	Supported	
		VAMP 1.3.0	Direct/ via switch	Supported U1	Supported U1	Supported U1	Supported U1	Yes	Supported	
	VAMP + Storage Cluster		Supported U1	Supported U1	Supported U1	Supported U1	Yes	Supported	*7	
	MC-0JFCF*	OS bundled	Direct/ via switch	Supported U1	Supported U1	Supported U1	Supported U1	Yes	Supported	
	MC-0JFCG* *15	*15 Storage Cluster	via switch *8	Supported U1	Supported U1	Supported U1	Supported U1	Yes	Supported	*7
VMware		OS bundled + Storage Cluster	via switch *8	Supported U1	Supported U1	Supported U1	Supported U1	Yes	Supported	*7
ESXi 8.0		VAMP 1.3.0	Direct/ via switch	Supported U1	Supported U1	Supported U1	Supported U1	Yes	Supported	
	MC-0JFCK*	VAMP + Storage Cluster	via switch *8	Supported U1	Supported U1	Supported U1	Supported U1	Yes	Supported	*7
	MC-0JFCL*	OS bundled	Direct/ via switch	Supported U1	Supported U1	Supported U1	Supported U1	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported U1	Supported U1	Supported U1	Supported U1	Yes	Supported	*7
		VAMP 1.3.0	Direct/ via switch	Supported U1	Supported U1	Supported U1	Supported U1	Yes	Supported	
	MC-0JFCP*	VAMP + Storage Cluster		Supported U1	Supported U1	Supported U1	Supported U1	Yes	Supported	*7
	MC-0JFCQ*	OS bundled	via switch	Supported U1	Supported U1	Supported U1	Supported U1	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported U1	Supported U1	Supported U1	Supported U1	Yes	Supported	*7

- \*1 vSphere Metro Storage Cluster (vMSC) is not supported.
- \*7 "Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.
- \*8 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.
- \*14 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.
- \*15 When taking LUN's backup, if physical block size/sector format of copy source and that of copy target are different, then resignature of datastore may result in error (Invalid datastore format) when mounting VMFS.

  Also when a drive failed and a hot spare drive which has different physical block size/sector format of the failed drive becomes a RAID member, the above error may occur. Please refer to the following KB.

- \*17 Cluster VMDK is not supported.
- \*18 Clustered VMDK is supported on ESXi 7.0U1 or later. When using Clustered VMDK, change the host response setting "Mode Sense command settings" to "Good". Use the following storage firmware.

DX S5 series/AF S3 series/DX8900 S4: V11L60/L61-3000 or later

- \*19 Clustered VMDK in VAMP environment is not supported.
- \*20 Please refer to KB for FC connection. https://kb.vmware.com/s/article/84325
- \*21 Clustered VMDK is supported with switch connection.
- \*22 Please refer to KB for FC direct connection on ESXi 8.0GA. https://kb.vmware.com/s/article/89533

					Stor	age			Cluster	
VM	HBA*20	Path Failover*19	Connected type*21	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port) *17	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port) *17	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)*18	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port) *18	SAN boot	HA/FT *1	Instruction for use
		VAMP 1.3.0	Direct/ via switch	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Yes	Supported	
	PY-FC441/PYBFC441/ PYBFC441L PY-FC442/PYBFC442/	VAMP + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1	Supported GA/U1	Yes	Supported	*7
	PYBFC442L *14	OS bundled	Direct/ via switch	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1	Supported GA/U1	Yes	Supported	*7
		VAMP 1.3.0	Direct/ via switch	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Yes	Supported	
VMware	PY-FC421/PYBFC421/ PYBFC421L PY-FC422/PYBFC422/	VAMP + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1	Supported GA/U1	Yes	Supported	*7
ESXi 8.0	PYBFC422L *14	OS bundled	Direct/ via switch	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1	Supported GA/U1	Yes	Supported	*7
		VAMP 1.3.0	Direct/ via switch	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Yes	Supported	
	PY-FC411/PYBFC411/ PYBFC411L	VAMP + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1	Supported GA/U1	Yes	Supported	*7
	PY-FC412/PYBFC412/ PYBFC412L	OS bundled	via switch	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1	Supported GA/U1	Yes	Supported	*7

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.

DX S5 series/AF S3 series/DX8900 S4: V11L60/L61-3000 or later

<sup>\*7 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

<sup>\*8</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*14</sup> When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

<sup>\*15</sup> When taking LUN's backup, if physical block size/sector format of copy source and that of copy target are different, then resignature of datastore may result in error (Invalid datastore format) when mounting VMFS. Also when a drive failed and a hot spare drive which has different physical block size/sector format of the failed drive becomes a RAID member, the above error may occur. Please refer to the following KB.

<sup>\*17</sup> Cluster VMDK is not supported.

<sup>\*18</sup> Clustered VMDK is supported on ESXi 7.0U1 or later. When using Clustered VMDK, change the host response setting "Mode Sense command settings" to "Good". Use the following storage firmware.

<sup>\*19</sup> Clustered VMDK in VAMP environment is not supported.

<sup>\*20</sup> Please refer to KB for FC connection. https://kb.vmware.com/s/article/84325

<sup>\*21</sup> Clustered VMDK is supported with switch connection.

<sup>\*22</sup> Please refer to KB for FC direct connection on ESXi 8.0GA. https://kb.vmware.com/s/article/89533

					Stor	age			Cluster	
VM	HBA*20	Path Failover*19	Connected type*21	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port) *17	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port) *17	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)*18	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port) *18	SAN boot	HA/FT *1	Instruction for use
	PY-FC351/PYBFC351/	VAMP 1.3.0	Direct/ via switch	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Yes	Supported	
	PYBFC351L PY-FC352/PYBFC352/ PYBFC352L	VAMP + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1	Supported GA/U1	Yes	Supported	*7
	S26361-F4044-L501/E1/E201 S26361-F4044-L502/E2/E202	OS bundled	Direct/ via switch	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Yes	Supported	
	*14	OS bundled + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1	Supported GA/U1	Yes	Supported	*7
	PY-FC341/PYBFC341/	VAMP 1.3.0	Direct/ via switch	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Yes	Supported	
	PYBFC341L PY-FC342/PYBFC342/	VAMP + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1	Supported GA/U1	Yes	Supported	*7
	PYBFC342L S26361-F4043-L501/E1/E201	OS bundled	Direct/ via switch	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Yes	Supported	
VMware	S26361-F4043-L502/E2/E202	OS bundled + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1	Supported GA/U1	Yes	Supported	*7
ESXi 8.0	PY-FC331/PYBFC331/	VAMP 1.3.0	Direct/ via switch	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Yes	Supported	
	PYBFC331L PY-FC332/PYBFC332/ PYBFC332L	VAMP + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1	Supported GA/U1	Yes	Supported	*7
	S26361-F5596-L501/E1/E201 S26361-F5596-L502/E2/E202	OS bundled	Direct/ via switch	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Yes	Supported	
	*14	OS bundled + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1	Supported GA/U1	Yes	Supported	*7
	PY-FC321/PY-FC322/	VAMP 1.3.0	Direct/ via switch	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Yes	Supported	
	S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201	VAMP + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1	Supported GA/U1	Yes	Supported	*7
	S26361-F5580-E201 S26361-F5580-L502 S26361-F5580-E2	OS bundled	Direct/ via switch	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Yes	Supported	
	S26361-F5580-E202	OS bundled + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1	Supported GA/U1	Yes	Supported	*7

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.

<sup>\*7 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

<sup>\*8</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*14</sup> When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

<sup>\*15</sup> When taking LUN's backup, if physical block size/sector format of copy source and that of copy target are different, then resignature of datastore may result in error (Invalid datastore format) when mounting VMFS. Also when a drive failed and a hot spare drive which has different physical block size/sector format of the failed drive becomes a RAID member, the above error may occur. Please refer to the following KB.

<sup>\*17</sup> Cluster VMDK is not supported.

<sup>\*18</sup> Clustered VMDK is supported on ESXi 7.0U1 or later. When using Clustered VMDK, change the host response setting "Mode Sense command settings" to "Good".

Use the following storage firmware.

DX S5 series/AF S3 series/DX8900 S4: V11L60/L61-3000 or later

<sup>\*19</sup> Clustered VMDK in VAMP environment is not supported.

<sup>\*20</sup> Please refer to KB for FC connection. https://kb.vmware.com/s/article/84325

<sup>\*21</sup> Clustered VMDK is supported with switch connection.

<sup>\*22</sup> Please refer to KB for FC direct connection on ESXi 8.0GA. https://kb.vmware.com/s/article/89533

					Stora	age			Cluster	
VM	HBA*20	Path Failover*19	Connected type*21	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port) *17	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port) *17	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)*18	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port) *18	SAN boot	HA/FT *1	Instruction for use
		VAMP 1.3.0	Direct/ via switch	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Yes	Supported	
	LPe36000 / LPe36002 or OEM products	VAMP + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1	Supported GA/U1	Yes	Supported	*7
	*14	OS bundled	Direct/ via switch	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1	Supported GA/U1	Yes	Supported	*7
		VAMP 1.3.0	Direct/ via switch	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Yes	Supported	
	LPe35000 / LPe35002 or OEM products	VAMP + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1	Supported GA/U1	Yes	Supported	*7
	*14	OS bundled	Direct/ via switch	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Yes	Supported	
VMware		OS bundled + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1	Supported GA/U1	Yes	Supported	*7
ESXi 8.0		VAMP 1.3.0	Direct/ via switch	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Yes	Supported	
	LPe32000 / LPe32002 or OEM products	VAMP + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1	Supported GA/U1	Yes	Supported	*7
	*14	OS bundled	Direct/ via switch	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1	Supported GA/U1	Yes	Supported	*7
		VAMP 1.3.0	Direct/ via switch	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Yes	Supported	
	LPe31000 / LPe31002 or OEM products	VAMP + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1	Supported GA/U1	Yes	Supported	*7
	*14	OS bundled	Direct/ via switch	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1	Supported GA/U1	Yes	Supported	*7

									_	
		VAMP 1.3.0	Direct/ via switch	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Yes	Supported	
	QLE2870/QLE2872/ QLE2874	VAMP + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1	Supported GA/U1	Yes	Supported	*7
	or OEM products	OS bundled	Direct/ via switch	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1	Supported GA/U1	Yes	Supported	*7
		VAMP 1.3.0	Direct/ via switch	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Yes	Supported	
	QLE2770/QLE2772/ QLE2774	VAMP + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1/U2	Supported GA/U1/U2	Yes	Supported	*7
	or OEM products	OS bundled	Direct/ via switch	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Yes	Supported	
VMware		OS bundled + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1/U2	Supported GA/U1/U2	Yes	Supported	*7
ESXi 8.0		VAMP 1.3.0	Direct/ via switch	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Yes	Supported	
	QLE2740/QLE2742/ QLE2764	VAMP + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1/U2	Supported GA/U1/U2	Yes	Supported	*7
	or OEM products	OS bundled	Direct/ via switch	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1/U2	Supported GA/U1/U2	Yes	Supported	*7
		VAMP 1.3.0	Direct/ via switch	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Yes	Supported	
	QLE2690/QLE2692/ QLE2694	VAMP + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1/U2	Supported GA/U1/U2	Yes	Supported	*7
	or OEM products	OS bundled	Direct/ via switch	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Supported GA/U1/U2 *22	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA/U1	Supported GA/U1	Supported GA/U1/U2	Supported GA/U1/U2	Yes	Supported	*7

- \*1 vSphere Metro Storage Cluster (vMSC) is not supported.
- \*7 "Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.
- \*8 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.
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- \*17 Cluster VMDK is not supported.
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  - Use the following storage firmware.
  - DX S5 series/AF S3 series/DX8900 S4: V11L60/L61-3000 or later
- \*19 Clustered VMDK in VAMP environment is not supported.
- \*20 Please refer to KB for FC connection. https://kb.vmware.com/s/article/84325
- \*21 Clustered VMDK is supported with switch connection.
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					Stor	age			Cluster	
VM	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	HA/FT *1	Instruction for use
	MC-0JFCF* MC-0JFCG*	OS bundled	Direct/ via switch	Planned 2	Planned 2	Supported *16 GA/U1/U2	Planned 2	Yes*17	Supported	
	*14	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Supported	*7
	MC-0JFCK*	OS bundled	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	Supported	
	MC-0JFCL*	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Supported	*7
	MC-0JFCM* MC-0JFCN*	OS bundled	Direct/ via switch	Supported U1	Planned 2	Planned 2	Planned 2	No	Supported	
	*14	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Supported	*7
	MC-0JFCP*	OS bundled	Direct/ via switch	Planned 2	Planned 2	Supported GA/U1	Planned 2	No	Supported	
	MC-0JFCQ*	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Supported	*7
VMware	MC-0JFC3*	OS bundled	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	Supported	
ESXi 7.0	MC-0JFC9*	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Supported	*7
	MC-0JFC4*	OS bundled	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	Supported	
	MC-0JFCA*	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Supported	*7
	MC-0JFC5*	OS bundled	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	Supported	
	MC-0JFC6*	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Supported	*7
	MC-0JFC7*	OS bundled	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	Supported	
	MC-0JFC8*	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Supported	*7
	MC-0JFCB*	OS bundled	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	Supported	
	MC-0JFCC*	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Supported	*7

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.

<sup>\*7 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

<sup>\*8</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*11</sup> Automatic UNMAP function to Thin Provisioning volume on VMFS Datastore is supported on Deduplication/Compression volume only.

<sup>\*14</sup> When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

<sup>\*15</sup> When taking LUN's backup, if physical block size/sector format of copy source and that of copy target are different, then resignature of datastore may result in error (Invalid datastore format) when mounting VMFS.

Also when a drive failed and a hot spare drive which has different physical block size/sector format of the failed drive becomes a RAID member, the above error may occur. Please refer to the following KB.

https://kb.vmware.com/s/article/68135

<sup>\*16</sup> Connection via switch is not supported

<sup>\*17</sup> ESXi 7.0U2 only "SAN boot" support

	Г	<del></del>		T						T
VM	HBA*20	Path Failover*19	Connected type*21	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port) *17	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port) *17	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)*18	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port) *18	SAN boot	Cluster HA/FT *1	Instruction for use
		VAMP 1.3.0	Direct/ via switch	Supported U2/U3	Supported U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
	PY-FC441/PYBFC441/ PYBFC441L PY-FC442/PYBFC442/	VAMP + Storage Cluster	via switch *8	Supported U3	Supported U3	Supported U3	Supported U3	Yes	Supported	*7
	PYBFC442L *14	OS bundled	Direct/ via switch	Supported U2/U3	Supported U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported U3	Supported U3	Supported U3	Supported U3	Yes	Supported	*7
		VAMP 1.3.0	Direct/ via switch	Supported U2/U3	Supported U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
VMware	PY-FC421/PYBFC421/ PYBFC421L PY-FC422/PYBFC422/	VAMP + Storage Cluster	via switch *8	Supported U3	Supported U3	Supported U3	Supported U3	Yes	Supported	*7
ESXi 7.0	PYBFC422L *14	OS bundled	Direct/ via switch	Supported U2/U3	Supported U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported U3	Supported U3	Supported U3	Supported U3	Yes	Supported	*7
		VAMP 1.3.0	Direct/ via switch	Supported U2/U3	Supported U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
	PY-FC411/PYBFC411/ PYBFC411L	VAMP + Storage Cluster	via switch *8	Supported U3	Supported U3	Supported U3	Supported U3	Yes	Supported	*7
	PY-FC412/PYBFC412/ PYBFC412L	OS bundled	Direct/ via switch	Supported U2/U3	Supported U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported U3	Supported U3	Supported U3	Supported U3	Yes	Supported	*7

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	PY-FC351/PYBFC351/	VAMP 1.3.0	Direct/ via switch	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Yes	Supported	
	PYBFC351L PY-FC352/PYBFC352/ PYBFC352L	VAMP + Storage Cluster	via switch *8	Supported U2/U3	Supported U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	*7
	S26361-F4044-L501/E1/E201 S26361-F4044-L502/E2/E202	OS bundled	Direct/ via switch	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Yes	Supported	
	*14	OS bundled + Storage Cluster	via switch *8	Supported GA/U2/U3	Supported GA/U2/U3	Supported GA/U2/U3	Supported GA/U2/U3	Yes	Supported	*7
	PY-FC341/PYBFC341/	VAMP 1.3.0	Direct/ via switch	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Yes	Supported	
	PYBFC341L PY-FC342/PYBFC342/	VAMP + Storage Cluster	via switch *8	Supported U2/U3	Supported U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	*7
	PYBFC342L S26361-F4043-L501/E1/E201	OS bundled	Direct/ via switch	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Yes	Supported	
VMware	S26361-F4043-L502/E2/E202	OS bundled + Storage Cluster	via switch *8	Supported GA/U2/U3	Supported GA/U2/U3	Supported GA/U2/U3	Supported GA/U2/U3	Yes	Supported	*7
ESXi 7.0	PY-FC331/PYBFC331/	VAMP 1.3.0	Direct/ via switch	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Yes	Supported	
	PYBFC331L PY-FC332/PYBFC332/ PYBFC332L	VAMP + Storage Cluster	via switch *8	Supported U2/U3	Supported U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	*7
	S26361-F5596-L501/E1/E201 S26361-F5596-L502/E2/E202	OS bundled	Direct/ via switch	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Yes	Supported	
	*14	OS bundled + Storage Cluster	via switch *8	Supported GA/U2/U3	Supported GA/U2/U3	Supported GA/U2/U3	Supported GA/U2/U3	Yes	Supported	*7
	PY-FC321/PY-FC322/	VAMP 1.3.0	Direct/ via switch	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Yes	Supported	
	S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201	VAMP + Storage Cluster	via switch *8	Supported U2/U3	Supported U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	*7
	S26361-F5580-E201 S26361-F5580-L502 S26361-F5580-E2	OS bundled	Direct/ via switch	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Yes	Supported	
	S26361-F5580-E202	OS bundled + Storage Cluster	via switch *8	Supported GA/U2/U3	Supported GA/U2/U3	Supported GA/U2/U3	Supported GA/U2/U3	Yes	Supported	*7

- \*1 vSphere Metro Storage Cluster (vMSC) is not supported.
- \*7 "Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.
- \*8 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.
- \*14 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.
- \*15 When taking LUN's backup, if physical block size/sector format of copy source and that of copy target are different, then resignature of datastore may result in error (Invalid datastore format) when mounting VMFS.

  Also when a drive failed and a hot spare drive which has different physical block size/sector format of the failed drive becomes a RAID member, the above error may occur. Please refer to the following KB.

- \*17 Cluster VMDK is not supported.
- \*18 Clustered VMDK is supported on ESXi 7.0U1 or later. When using Clustered VMDK, change the host response setting "Mode Sense command settings" to "Good".

  Use the following storage firmware.
  - DX S5 series/AF S3 series/DX8900 S4: V11L60/L61-3000 or later
- \*19 Clustered VMDK in VAMP environment is not supported.
- \*20 Please refer to KB for FC connection. https://kb.vmware.com/s/article/84325
- \*21 Clustered VMDK is supported with switch connection.

					Stora	age			Cluster	
VM	HBA*20	Path Failover*19	Connected type*21	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port) *17	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port) *17	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)*18	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port) *18	SAN boot	HA/FT *1	Instruction for use
		VAMP 1.3.0	Direct/ via switch	Supported U2/U3	Supported U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
	LPe36000 / LPe36002 or OEM products	VAMP + Storage Cluster	via switch *8	Supported U3	Supported U3	Supported U3	Supported U3	Yes	Supported	*7
	*14	OS bundled	Direct/ via switch	Supported U2/U3	Supported U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported U3	Supported U3	Supported U3	Supported U3	Yes	Supported	*7
		VAMP 1.3.0	Direct/ via switch	Supported U2/U3	Supported U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
	LPe35000 / LPe35002 or OEM products	VAMP + Storage Cluster	via switch *8	Supported U3	Supported U3	Supported U3	Supported U3	Yes	Supported	*7
	*14	OS bundled	Direct/ via switch	Supported U2/U3	Supported U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
VMware		OS bundled + Storage Cluster	via switch *8	Supported U3	Supported U3	Supported U3	Supported U3	Yes	Supported	*7
ESXi 7.0		VAMP 1.3.0	Direct/ via switch	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Yes	Supported	
	LPe32000 / LPe32002 or OEM products	VAMP + Storage Cluster	via switch *8	Supported U2/U3	Supported U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	*7
	*14	OS bundled	Direct/ via switch	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA/U2/U3	Supported GA/U2/U3	Supported GA/U2/U3	Supported GA/U2/U3	Yes	Supported	*7
		VAMP 1.3.0	Direct/ via switch	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Yes	Supported	
	LPe31000 / LPe31002 or OEM products	VAMP + Storage Cluster	via switch *8	Supported U2/U3	Supported U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	*7
	*14	OS bundled	Direct/ via switch	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA/U2/U3	Supported GA/U2/U3	Supported GA/U2/U3	Supported GA/U2/U3	Yes	Supported	*7

		VAMP 1.3.0	Direct/ via switch	Supported U2/U3	Supported U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
	QLE2870/QLE2872/ QLE2874	VAMP + Storage Cluster	via switch *8	Supported U3	Supported U3	Supported U3	Supported U3	Yes	Supported	*7
	or OEM products	OS bundled	Direct/ via switch	Supported U2/U3	Supported U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported U3	Supported U3	Supported U3	Supported U3	Yes	Supported	*7
		VAMP 1.3.0	Direct/ via switch	Supported U2/U3	Supported U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
	QLE2770/QLE2772/ QLE2774	VAMP + Storage Cluster	via switch *8	Supported U3	Supported U3	Supported U3	Supported U3	Yes	Supported	*7
	or OEM products	OS bundled	Direct/ via switch	Supported U2/U3	Supported U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
VMware		OS bundled + Storage Cluster	via switch *8	Supported U3	Supported U3	Supported U3	Supported U3	Yes	Supported	*7
ESXi 7.0		VAMP 1.3.0	Direct/ via switch	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Yes	Supported	
	QLe2740/QLe2742/ QLe2764	VAMP + Storage Cluster	via switch *8	Supported U2/U3	Supported U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	*7
	or OEM products	OS bundled	Direct/ via switch	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA/U2/U3	Supported GA/U2/U3	Supported GA/U2/U3	Supported GA/U2/U3	Yes	Supported	*7
		VAMP 1.3.0	Direct/ via switch	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Yes	Supported	
	QLogic QLE2690/QLE2692/	VAMP + Storage Cluster	via switch *8	Supported U2/U3	Supported U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	*7
	QLE2694 or OEM products	OS bundled	Direct/ via switch	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA/U2/U3	Supported GA/U2/U3	Supported GA/U2/U3	Supported GA/U2/U3	Yes	Supported	*7

- \*1 vSphere Metro Storage Cluster (vMSC) is not supported.
- \*7 "Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.
- \*8 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.
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  Use the following storage firmware.
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	<u> </u>			Τ				l	T	1
					Stor				Cluster	
VM	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	HA/FT *1	Instruction for use
	MC-0JFCF* MC-0JFCG*	OS bundled	Direct/ via switch	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Yes	Supported	
	*14	OS bundled + Storage Cluster	via switch *8	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Yes	Supported	*7
	MC-0JFCK*	OS bundled	Direct/ via switch	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Yes	Supported	
	MC-0JFCL*	OS bundled + Storage Cluster	via switch *8	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Yes	Supported	*7
	MC-0JFCM* MC-0JFCN*	OS bundled	Direct/ via switch	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Yes	Supported	
	*14	OS bundled + Storage Cluster	via switch *8	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Yes	Supported	*7
	MC-0JFCP*	OS bundled	Direct/ via switch	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Yes	Supported	
	MC-0JFCQ*	OS bundled + Storage Cluster	via switch *8	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Yes	Supported	*7
VMware ESXi 6.7	MC-0JFC3*	OS bundled	Direct/ via switch	Supported GA *15	Supported GA *15	Supported GA *15	Supported GA *15	Yes	Supported	
*11	MC-0JFC9*	OS bundled + Storage Cluster	via switch *8	Supported GA *15	Supported GA *15	Supported GA *15	Supported GA *15	Yes	Supported	*7
	MC-0JFC4*	OS bundled	Direct/ via switch	Supported GA *15	Supported GA *15	Supported GA *15	Supported GA *15	Yes	Supported	
	MC-0JFCA*	OS bundled + Storage Cluster	via switch *8	Supported GA *15	Supported GA *15	Supported GA *15	Supported GA *15	Yes	Supported	*7
	MC-0JFC5*	OS bundled	Direct/ via switch	Supported GA *15	Supported GA *15	Supported GA *15	Supported GA *15	Yes	Supported	
	MC-0JFC6*	OS bundled + Storage Cluster	via switch *8	Supported GA *15	Supported GA *15	Supported GA *15	Supported GA *15	Yes	Supported	*7
	MC-0JFC7*	OS bundled	Direct/ via switch	Supported GA *15	Supported GA *15	Supported GA *15	Supported GA *15	Yes	Supported	
	MC-0JFC8*	OS bundled + Storage Cluster	via switch *8	Supported GA *15	Supported GA *15	Supported GA *15	Supported GA *15	Yes	Supported	*7
	MC-0JFCB*	OS bundled	Direct/ via switch	Supported GA *15	Supported GA *15	Supported GA *15	Supported GA *15	Yes	Supported	
	MC-0JFCC*	OS bundled + Storage Cluster	via switch *8	Supported GA *15	Supported GA *15	Supported GA *15	Supported GA *15	Yes	Supported	*7

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.

<sup>\*7 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

<sup>\*8</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

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					Stor	age			Cluster	
VM	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	HA/FT *1	Instruction for use
	PY-FC351/PYBFC351/	VAMP 1.2.1 or later *16	Direct/ via switch	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Yes	Supported	
	PYBFC351L PY-FC352/PYBFC352/	VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	*7
	PYBFC352L S26361-F4044-L501/E1/E201 S26361-F4044-L502/E2/E202	OS bundled	Direct/ via switch	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Yes	Supported	
	*14	OS bundled + Storage Cluster	via switch *8	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Yes	Supported	*7
	PY-FC341/PYBFC341/	VAMP 1.2.1 or later *16	Direct/ via switch	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Yes	Supported	
	PYBFC341L PY-FC342/PYBFC342/	VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	*7
	PYBFC342L S26361-F4043-L501/E1/E201 S26361-F4043-L502/E2/E202	OS bundled	Direct/ via switch	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Yes	Supported	
	320301-F4043-L302/E2/E202	OS bundled + Storage Cluster	via switch *8	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Yes	Supported	*7
	PY-FC331/PYBFC331/	VAMP 1.2.1 or later *16	Direct/ via switch	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Yes	Supported	
	PYBFC331L PY-FC332/PYBFC332/ PYBFC332L	VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	*7
	S26361-F5596-L501/E1/E201 S26361-F5596-L502/E2/E202	OS bundled	Direct/ via switch	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Yes	Supported	
VMware ESXi 6.7	*14	OS bundled + Storage Cluster	via switch *8	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Yes	Supported	*7
*11	PY-FC321/PY-FC322/	VAMP 1.2.1 or later *16	Direct/ via switch	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Yes	Supported	
	S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201	VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	*7
	S26361-F5580-L502 S26361-F5580-E2	OS bundled	Direct/ via switch	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Yes	Supported	
	S26361-F5580-E202	OS bundled + Storage Cluster	via switch *8	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Yes	Supported	*7
	PY-FC311/PY-FC312/	VAMP	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	
	S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201	VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	*7
	S26361-F5313-L502 S26361-F5313-E2	OS bundled	Direct/ via switch	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	
	S26361-F5313-E202	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	*7
		VAMP 1.2.1 or later *16	Direct/ via switch	Supported U3	Supported U3	Supported U3	Supported U3	Yes	Planned 2	
	PY-FC221/PY-FC222/ S26361-F4994-L501/	VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	*7
	S26361-F4994-L502	OS bundled	Direct/ via switch	Supported U3	Supported U3	Supported U3	Supported U3	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	*7

- \*1 vSphere Metro Storage Cluster (vMSC) is not supported.
- \*7 "Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.
- \*8 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.
- \*11 ESXi6.7GA / U1 supports the automatic UNMAP function for VMFS datastore thin provisioned volumes only for deduplication / compression volumes.
- \*14 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.
- \*15 When taking LUN's backup, if physical block size/sector format of copy source and that of copy target are different, then resignature of datastore may result in error (Invalid datastore format) when mounting VMFS.

  Also when a drive failed and a hot spare drive which has different physical block size/sector format of the failed drive becomes a RAID member, the above error may occur. Please refer to the following KB.

\*16 If to VAMP 1.2.1 configuration environment, There is no need to update to VAMP 1.3.0.

					Stor	rage			Cluster	
VM	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	HA/FT *1	Instruction for use
		VAMP 1.2.1 or later *16	Direct/ via switch	Supported GA *15	Supported GA *15	Supported GA *15	Supported GA *15	Yes	Supported	
	PY-FC201/PY-FC202 PG-FC203/PG-FC204	VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	*7
	S26361-F3961-L1/ S26361-F3961-L2	OS bundled	Direct/ via switch	Supported GA *15	Supported GA *15	Supported GA *15	Supported GA *15	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA *15	Supported GA *15	Supported GA *15	Supported GA *15	Yes	Supported	*7
		VAMP 1.2.1 or later *16	Direct/ via switch	Supported GA *15	Supported GA *15	Supported GA *15	Supported GA *15	Yes	Supported	
	PY-FC211/PY-FC212 PG-FC205/PG-FC206	VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	*7
	S26361-F3631-L1/ S26361-F3631-L2	OS bundled	Direct/ via switch	Supported GA *15	Supported GA *15	Supported GA *15	Supported GA *15	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA *15	Supported GA *15	Supported GA *15	Supported GA *15	Yes	Supported	*7
		VAMP 1.2.1 or later *16	Direct/ via switch	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Yes	Supported	
	LPe32000 / LPe32002 or OEM products	VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	*7
	*14	OS bundled	Direct/ via switch	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Yes	Supported	*7
		VAMP 1.2.1 or later *16	Direct/ via switch	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Yes	Supported	
VMware ESXi 6.7	LPe31000 / LPe31002 or OEM products	VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	*7
*11	*14	OS bundled	Direct/ via switch	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Yes	Supported	*7
		VAMP 1.2.1 or later *16	Direct/ via switch	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Yes	Supported	
	QLe2740/QLe2742/ QLe2764	VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	*7
	or OEM products	OS bundled	Direct/ via switch	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Yes	Supported	*7
		VAMP 1.2.1 or later *16	Direct/ via switch	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Yes	Supported	
	QLogic QLE2690/QLE2692/	VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	*7
	QLE2694 or OEM products	OS bundled	Direct/ via switch	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Supported GA *15/U1 to U3	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Supported GA *15/U1/U2	Yes	Supported	*7
		VAMP 1.2.1 or later *16	Direct/ via switch	Supported U3	Supported U3	Supported U3	Supported U3	Yes	Planned 2	
	Emulex LPe16000/LPe16002	VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	*7
	or OEM products	OS bundled	Direct/ via switch	Supported U3	Supported U3	Supported U3	Supported U3	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2 209/28	Planned 2	Planned 2	No	Planned 2	*7 Copyright 2023 FUJITSU LIMITE

- \*1 vSphere Metro Storage Cluster (vMSC) is not supported.
- \*7 "Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.
- \*8 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.
- \*11 ESXi6.7GA / U1 supports the automatic UNMAP function for VMFS datastore thin provisioned volumes only for deduplication / compression volumes.
- \*14 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.
- \*15 When taking LUN's backup, if physical block size/sector format of copy source and that of copy target are different, then resignature of datastore may result in error (Invalid datastore format) when mounting VMFS.

  Also when a drive failed and a hot spare drive which has different physical block size/sector format of the failed drive becomes a RAID member, the above error may occur. Please refer to the following KB.

\*16 If to VAMP 1.2.1 configuration environment, There is no need to update to VAMP 1.3.0.

		Path Failover	Connected type		Stora	age		SAN boot	Cluster	Instruction for use
VM	НВА			DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)		HA/FT *1	
	Emulex LPe12000/LPe12002/LPe1250 or OEM products	VAMP 1.2.1 or later *16	Direct/ via switch	Supported GA *15	Supported GA *15	Supported GA *15	Supported GA *15	Yes	Supported	
		VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	*7
		OS bundled	Direct/ via switch	Supported GA *15	Supported GA *15	Supported GA *15	Supported GA *15	Yes	Supported	
VMware ESXi 6.7		OS bundled + Storage Cluster	via switch *8	Supported GA *15	Supported GA *15	Supported GA *15	Supported GA *15	Yes	Supported	*7
*11	QLogic QLE2560/QLE2562 or OEM products	VAMP 1.2.1 or later *16	Direct/ via switch	Supported GA *15	Supported GA *15	Supported GA *15	Supported GA *15	Yes	Supported	
		VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	*7
		OS bundled	Direct/ via switch	Supported GA *15	Supported GA *15	Supported GA *15	Supported GA *15	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA *15	Supported GA *15	Supported GA *15	Supported GA *15	Yes	Supported	*7

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.

<sup>\*7 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

<sup>\*8</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*11</sup> ESXi6.7GA / U1 supports the automatic UNMAP function for VMFS datastore thin provisioned volumes only for deduplication / compression volumes.

<sup>\*15</sup> When taking LUN's backup, if physical block size/sector format of copy source and that of copy target are different, then resignature of datastore may result in error (Invalid datastore format) when mounting VMFS. Also when a drive failed and a hot spare drive which has different physical block size/sector format of the failed drive becomes a RAID member, the above error may occur. Please refer to the following KB. https://kb.vmware.com/s/article/68135

<sup>\*16</sup> If to VAMP 1.2.1 configuration environment, There is no need to update to VAMP 1.3.0.

	НВА			Storage					Cluster	
VM		Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	HA/FT *1	Instruction for use
	MC-0JFCF* MC-0JFCG*	OS bundled	Direct/ via switch	Supported U1 to U3	Supported U1 to U3	Supported U1 to U3	Supported U1 to U3	Yes	Supported	
	*14	OS bundled + Storage Cluster	via switch *8	Supported U1/U2	Supported U1/U2	Supported U1/U2	Supported U1/U2	Yes	Supported	*7
	MC-0JFCK*	OS bundled	Direct/ via switch	Supported U1 to U3	Supported U1 to U3	Supported U1 to U3	Supported U1 to U3	Yes	Supported	
	MC-0JFCL*	OS bundled + Storage Cluster	via switch *8	Supported U1/U2	Supported U1/U2	Supported U1/U2 *16	Supported U1/U2 *16	Yes	Supported	*7
	MC-0JFCM* MC-0JFCN*	OS bundled	Direct/ via switch	Supported U1 to U3	Supported U1 to U3	Supported U1 to U3	Supported U1 to U3	Yes	Supported	
	*14	OS bundled + Storage Cluster	via switch *8	Supported U1/U2 *16	Supported U1/U2 *16	Supported U1/U2 *16	Supported U1/U2 *16	Yes	Supported	*7
	MC-0JFCP* MC-0JFCQ*	OS bundled	Direct/ via switch	Supported U1 to U3	Supported U1 to U3	Supported U1 to U3	Supported U1 to U3	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported U1/U2	Supported U1/U2	Supported U2	Supported U2	Yes	Supported	*7
	MC-0JFC3* MC-0JFC9*	OS bundled	Direct/ via switch	Supported GA /U2 *16 Planned 2U1	Planned 2	Supported U2	Planned 2	Yes	Supported	
VMware		OS bundled + Storage Cluster	via switch *8	Supported GA	Planned 2	Planned 2	Planned 2	Yes	Supported	*7
ESXi 6.5 *11	MC-0JFC4* MC-0JFCA*	OS bundled	Direct/ via switch	Supported GA /U2 *16 Planned 2U1	Planned 2	Supported U2	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA	Planned 2	Planned 2	Planned 2	Yes	Supported	*7
	MC-0JFC5* MC-0JFC6*	OS bundled	Direct/ via switch	Supported GA /U2 *16 Planned 2U1	Planned 2	Supported U2	Planned 2	Yes	Supported	
	WIC-03FC0	OS bundled + Storage Cluster	via switch *8	Supported GA	Planned 2	Planned 2	Planned 2	Yes	Supported	*7
[	MC-0JFC7*	OS bundled	Direct/ via switch	Supported GA to U3 *16	Supported GA to U3 *16	Supported GA/U2/U3	Supported GA/U2/U3	Yes	Supported	
[	MC-0JFC8*	OS bundled + Storage Cluster	via switch *8	Supported GA /U2	Supported GA /U2	Supported GA/U2	Supported GA/U2	Yes	Supported	*7
	MC-0JFCB*	OS bundled	Direct/ via switch	Supported GA/U1/U2 *16	Supported GA/U1/U2 *16	Supported GS/U2	Supported GS/U2	Yes	Supported	
	MC-0JFCC*	OS bundled + Storage Cluster	via switch *8	Supported GA /U2	Supported GA /U2	Supported GA/U2	Supported GA/U2	Yes	Supported	*7
	MC-0JFCD*	OS bundled	Direct/ via switch	Supported GA to U3	Supported GA to U3	Supported GA/U2/U3	Supported GA/U2/U3	Yes	Supported	
	MC-0JFCE*	OS bundled + Storage Cluster	via switch *8	Supported GA /U2	Supported GA /U2	Supported GA/U2	Supported GA/U2	Yes	Supported	*7

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.

<sup>\*7 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

<sup>\*8</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*11</sup> Automatic UNMAP function to Thin Provisioning volume on VMFS Datastore is supported on Deduplication/Compression volume only.

<sup>\*14</sup> When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

<sup>\*16</sup> ESXi6.5 U2/ESXi6.0 U3 is supported via FC switch connection only.

		Path Failover	Connected type	Storage					Cluster	
VM	НВА			DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	HA/FT *1	Instruction for use
	PY-FC351/PYBFC351/	VAMP 1.2.1 or later *17	Direct/ via switch	Supported U1/U2/U3	Supported U1/U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
	PYBFC351L PY-FC352/PYBFC352/	VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	*7
	PYBFC352L S26361-F4044-L501/E1/E201 S26361-F4044-L502/E2/E202	OS bundled	Direct/ via switch	Supported U1/U2/U3	Supported U1/U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
	*14	OS bundled + Storage Cluster	via switch *8	Supported U1/U2	Supported U1/U2	Supported U2	Supported U2	Yes	Supported	*7
	PY-FC341/PYBFC341/	VAMP 1.2.1 or later *17	Direct/ via switch	Supported U1/U2/U3	Supported U1/U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
	PYBFC341L PY-FC342/PYBFC342/	VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	*7
	PYBFC342L S26361-F4043-L501/E1/E201	OS bundled	Direct/ via switch	Supported U1/U2/U3	Supported U1/U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
	S26361-F4043-L502/E2/E202	OS bundled + Storage Cluster	via switch *8	Supported U1/U2	Supported U1/U2	Supported U2	Supported U2	Yes	Supported	*7
	PY-FC331/PYBFC331/ PYBFC331L PY-FC332/PYBFC332/ PYBFC332L S26361-F5596-L501/E1/E201 S26361-F5596-L502/E2/E202 *14	VAMP 1.2.1 or later *17	Direct/ via switch	Supported U1/U2/U3	Supported U1/U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
		VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	*7
		OS bundled	Direct/ via switch	Supported U1/U2/U3	Supported U1/U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
VMware		OS bundled + Storage Cluster	via switch *8	Supported U1/U2	Supported U1/U2	Supported U2	Supported U2	Yes	Supported	*7
ESXi 6.5 *11	PY-FC321/PY-FC322/	VAMP 1.2.1 or later *17	Direct/ via switch	Supported GA to U3	Supported GA to U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
	S26361-F5580-L501 S26361-F5580-E1	VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	*7
	S26361-F5580-E201 S26361-F5580-L502 S26361-F5580-E2	OS bundled	Direct/ via switch	Supported GA to U3	Supported GA to U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
	S26361-F5580-E202	OS bundled + Storage Cluster	via switch *8	Supported GA/U2	Supported GA/U2	Supported U2	Supported U2	Yes	Supported	*7
	PY-FC311/PY-FC312/	VAMP 1.2.1 or later *17	Direct/ via switch	Supported GA /U1/U2 *16	Supported GA /U1/U2 *16	Supported U2	Supported U2	Yes	Supported	
	S26361-F5313-L501 S26361-F5313-E1	VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	*7
	S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2	OS bundled	Direct/ via switch	Supported GA/U1/U2 *16	Supported GA/U1/U2 *16	Supported U2	Supported U2	Yes	Supported	
	S26361-F5313-E202	OS bundled + Storage Cluster	via switch *8	Supported GA/U2	Supported GA/U2	Supported U2	Supported U2	Yes	Supported	*7
		VAMP 1.2.1 or later *17	Direct/ via switch	Supported GA to U3 *16	Supported GA to U3 *16	Supported U2/U3	Supported U2/U3	Yes	Supported	
	PY-FC221/PY-FC222/	VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	*7
	S26361-F4994-L501/ S26361-F4994-L502	OS bundled	Direct/ via switch	Supported GA to U3 *16	Supported GA to U3 *16	Supported U2/U3	Supported U2/U3	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA/U2	Supported GA/U2	Supported U2	Supported U2	Yes	Supported	*7

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.

<sup>\*7 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

<sup>\*8</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*11</sup> Automatic UNMAP function to Thin Provisioning volume on VMFS Datastore is supported on Deduplication/Compression volume only.

<sup>\*14</sup> When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

<sup>\*16</sup> ESXi6.5 U2/ESXi6.0 U3 is supported via FC switch connection only.

<sup>\*17</sup> If to VAMP 1.2.1 configuration environment, There is no need to update to VAMP 1.3.0.

		Path Failover	Connected type	Storage					Cluster	
VM	НВА			DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	HA/FT *1	Instruction for use
	PY-FCD12/ PYBFCD121/PYBFCD122	OS bundled	Switch blade	Supported GA/U1	Supported GA/U1	Supported U2	Supported U2	Yes	Supported	
	S26361-F4994-E402/ S26361-F4994-L402	OS bundled + Storage Cluster	Switch blade	Supported GA/U2	Supported GA/U2	Supported U2	Supported U2	Yes	Supported	*7
		VAMP 1.2.1 or later *17	Direct/ via switch	Supported GA /U2 *16 Planned 2 U1	Planned 2	Supported U2	Planned 2	Yes	Supported	
	PY-FC201/PY-FC202 PG-FC203/PG-FC204	VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	*7
	S26361-F3961-L1/ S26361-F3961-L2	OS bundled	Direct/ via switch	Supported GA/U2 *16 Planned 2 U1	Planned 2	Supported U2	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA	Planned 2	Planned 2	Planned 2	Yes	Supported	*7
	PY-FCD02 PG-FCD202 S26361-F3874-L1	OS bundled	Switch blade/ Pass-through	Supported GA Planned 2 U1	Planned 2	Supported U2	Planned 2	Yes	Supported	
VMware ESXi 6.5		OS bundled + Storage Cluster	blade	Supported GA	Planned 2	Planned 2	Planned 2	Yes	Supported	*7
*11		VAMP 1.2.1 or later *17	Direct/ via switch	Supported GA /U2 *16 Planned 2 U1	Planned 2	Supported U2	Planned 2	Yes	Supported	
	PY-FC211/PY-FC212 PG-FC205/PG-FC206	VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	*7
	S26361-F3631-L1/ S26361-F3631-L2	OS bundled	Direct/ via switch	Supported GA/U2 *16 Planned 2 U1	Planned 2	Supported U2	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA	Planned 2	Planned 2	Planned 2	Yes	Supported	*7
	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	OS bundled	FCoE switch	Supported GA Planned 2 U1	Planned 2	Supported U2	Planned 2	No	Supported	PRIMERGY M4 series is not supported.
		OS bundled + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.

<sup>\*7 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

<sup>\*8</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*11</sup> Automatic UNMAP function to Thin Provisioning volume on VMFS Datastore is supported on Deduplication/Compression volume only.

<sup>\*16</sup> ESXi6.5 U2/ESXi6.0 U3 is supported via FC switch connection only.

<sup>\*17</sup> If to VAMP 1.2.1 configuration environment, There is no need to update to VAMP 1.3.0.

	HBA *2	Path Failover		Storage					Cluster	
VM			Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	HA/FT *1	Instruction for use
		VAMP 1.2.1 or later *17	Direct/ via switch	Supported U1/U2/U3	Supported U1/U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
	LPe32000 / LPe32002	VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	*7
	or OEM products *14	OS bundled	Direct/ via switch	Supported U1/U2/U3	Supported U1/U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported U1/U2	Supported U1/U2	Supported U2	Supported U2	Yes	Supported	*7
		VAMP 1.2.1 or later *17	Direct/ via switch	Supported U1/U2/U3	Supported U1/U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
	LPe31000 / LPe31002 or OEM products *14	VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	*7
		OS bundled	Direct/ via switch	Supported U1/U2/U3	Supported U1/U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported U1/U2	Supported U1/U2	Supported U2	Supported U2	Yes	Supported	*7
	QLe2740/QLe2742/ QLe2764 or OEM products	VAMP 1.2.1 or later *17	Direct/ via switch	Supported U1/U2/U3	Supported U1/U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
VMware ESXi 6.5		VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	*7
*11		OS bundled	Direct/ via switch	Supported U1/U2/U3	Supported U1/U2/U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported U1/U2	Supported U1/U2	Supported U2	Supported U2	Yes	Supported	*7
		VAMP 1.2.1 or later *17	Direct/ via switch	Supported GA to U3 *16	Supported GA to U3 *16	Supported U2/U3	Supported U2/U3	Yes *9	Supported	
	Emulex LPe16000 / LPe16002	VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	*7
	or OEM products	OS bundled	Direct/ via switch	Supported GA to U3 *16	Supported GA to U3 *16	Supported U2/U3	Supported U2/U3	Yes *9	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA/U2	Supported GA/U2	Supported U2	Supported U2	Yes *9	Supported	*7
	QLogic QLE2690/QLE2692/ QLE2694 or OEM products	VAMP 1.2.1 or later *17	Direct/ via switch	Supported GA to U3	Supported GA to U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
		VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	*7
		OS bundled	Direct/ via switch	Supported GA to U3	Supported GA to U3	Supported U2/U3	Supported U2/U3	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA/U2	Supported GA/U2	Supported U2	Supported U2	Yes	Supported	*7

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<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.
\*2 Please ask VMware if the connected HBA is certified by VMware or not.

<sup>\*7 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

<sup>\*8</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser. \*9 SAN boot is supported on 16Gbps Link Speed only.

<sup>\*11</sup> Automatic UNMAP function to Thin Provisioning volume on VMFS Datastore is supported on Deduplication/Compression volume only.

<sup>\*14</sup> When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

<sup>\*16</sup> ESXi6.5 U2/ESXi6.0 U3 is supported via FC switch connection only.

<sup>\*17</sup> If to VAMP 1.2.1 configuration environment, There is no need to update to VAMP 1.3.0.

	HBA *2	Path Failover	Connected type	Storage					Cluster	
VM				DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	AF series (except AF S3 series)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	HA/FT *1	Instruction for use
		VAMP 1.2.1 or later *17	Direct/ via switch	Supported GA /U1/U2 *16	Supported GA /U1/U2 *16	Supported U2	Supported U2	Yes	Supported	
	Qlogic QLE2660/QLE2662	VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	*7
	QLE2670/QLE2672 or OEM products	OS bundled	Direct/ via switch	Supported GA/U1/U2 *16	Supported GA/U1/U2 *16	Supported U2	Supported U2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA/U2	Supported GA/U2	Supported U2	Supported U2	Yes	Supported	*7
	Emulex LPe12000/LPe12002/LPe1250 or OEM products	VAMP 1.2.1 or later *17	Direct/ via switch	Supported GA /U2 *16 Planned 2 U1	Planned 2	Supported U2	Planned 2	Yes	Supported	
		VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	*7
		OS bundled	Direct/ via switch	Supported GA/U2 *16 Planned 2 U1	Planned 2	Supported U2	Planned 2	Yes	Supported	
VMware		OS bundled + Storage Cluster	via switch *8	Supported GA	Planned 2	Planned 2	Planned 2	Yes	Supported	*7
ESXi 6.5 *11	QLogic	VAMP 1.2.1 or later *17	Direct/ via switch	Supported GA /U2 *16 Planned 2 U1	Planned 2	Supported U2	Planned 2	Yes	Supported	
		VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	*7
	QLE2560/QLE2562 or OEM products	OS bundled	Direct/ via switch	Supported GA/U2 *16 Planned 2 U1	Planned 2	Supported U2	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA	Planned 2	Planned 2	Planned 2	Yes	Supported	*7
	Emulex OCe14401B	OS bundled	FCoE switch	Supported GA Planned 2 U1	Planned 2	Supported U2	Planned 2	No	Supported	
	or OEM products *13	OS bundled + Storage Cluster	*8	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	
	Emulex OCe14102 or OEM products *13	OS bundled	FCoE switch	Supported GA Planned 2 U1	Planned 2	Supported U2	Planned 2	No	Supported	
		OS bundled + Storage Cluster	*8	Planned 2	Planned 2	Planned 2	Planned 2	No	Planned 2	

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.
\*2 Please ask VMware if the connected HBA is certified by VMware or not.

<sup>\*7 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

<sup>\*8</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*11</sup> Automatic UNMAP function to Thin Provisioning volume on VMFS Datastore is supported on Deduplication/Compression volume only.

<sup>\*13</sup> Driver should be lpfc driver.

<sup>\*16</sup> ESXi6.5 U2/ESXi6.0 U3 is supported via FC switch connection only.

<sup>\*17</sup> If to VAMP 1.2.1 configuration environment, There is no need to update to VAMP 1.3.0.

					Stor	rage			Cluster	
VM	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX8900 S4 (FC 16Gbps port)	DX8900 S4 (FC 32Gbps port)	SAN boot	HA/FT *1	Instruction for use
		VAMP	Direct/ via switch	Supported GA/U1/U2	Planned 2	N.A.	N.A.	Yes	Supported	
	MC-0JFC11	VAMP + Storage Cluster	via switch *8	Supported GA/U1/U2	Planned 2	N.A.	N.A.	Yes	Supported	*7
	MC-0JFC21	OS bundled	Direct/ via switch	Supported GA/U1/U2	Planned 2	Planned 2	Planned 2	Yes	Supported	
VMware		OS bundled + Storage Cluster	via switch *8	Supported GA/U1/U2	Planned 2	Planned 2	Planned 2	Yes	Supported	*7
ESXi 6.0		VAMP	Direct/ via switch	Planned 2	Planned 2	N.A.	N.A.	Yes	Supported	
	MC-0JFCF* MC-0JFCG*	VAMP + Storage Cluster	via switch *8	Planned 2	Planned 2	N.A.	N.A.	Yes	Supported	*7
	*14	OS bundled	Direct/ via switch	Supported U3	Supported U3	Planned 2	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported U3	Supported U3	Planned 2	Planned 2	Yes	Supported	*7

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		VAMP	Direct/ via switch	Supported GA/U1/U2	Planned 2	N.A.	N.A.	Yes	Supported	
	MC-0JFC3*	VAMP + Storage Cluster	via switch *8	Supported GA/U1/U2	Planned 2	N.A.	N.A.	Yes	Supported	*7
	MC-0JFC9*	OS bundled	Direct/ via switch	Supported GA to U3 *16	Planned 2	Planned 2	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA/U1/U2	Planned 2	Planned 2	Planned 2	Yes	Supported	*7
		VAMP	Direct/ via switch	Supported GA/U1/U2	Planned 2	N.A.	N.A.	Yes	Supported	
	MC-0JFC4*	VAMP + Storage Cluster	via switch *8	Supported GA/U1/U2	Planned 2	N.A.	N.A.	Yes	Supported	*7
	MC-0JFCA*	OS bundled	Direct/ via switch	Supported GA to U3 *16	Planned 2	Planned 2	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA/U1/U2	Planned 2	Planned 2	Planned 2	Yes	Supported	*7
		VAMP	Direct/ via switch	Supported GA/U1/U2	Planned 2	N.A.	N.A.	Yes	Supported	
VMware	MC-0JFC5*	VAMP + Storage Cluster	via switch *8	Supported GA/U1/U2	Planned 2	N.A.	N.A.	Yes	Supported	*7
ESXi 6.0	MC-0JFC6*	OS bundled	Direct/ via switch	Supported GA to U3 *16	Planned 2	Planned 2	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA/U1/U2	Planned 2	Planned 2	Planned 2	Yes	Supported	*7
		VAMP	Direct/ via switch	Supported GA/U1/U2	Supported GA/U1/U2	N.A.	N.A.	Yes *3*9	Supported	
	MC-0JFC7*	VAMP + Storage Cluster	via switch *8	Supported GA/U1/U2	Supported GA/U1/U2	N.A.	N.A.	Yes *3*9	Supported	*7
	MC-0JFC8*	OS bundled	Direct/ via switch	Supported GA to U3	Supported GA to U3	Supported GA/U1/U2	Supported GA/U1/U2	Yes *3*9	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Yes *3*9	Supported	*7
		VAMP	Direct/ via switch	Supported GA/U1/U2	Supported GA/U1/U2	N.A.	N.A.	Yes	Supported	
	MC-0JFCB*	VAMP + Storage Cluster	via switch *8	Supported GA/U1/U2	Supported GA/U1/U2	N.A.	N.A.	Yes	Supported	*7
	MC-0JFCB* MC-0JFCC*	OS bundled	Direct/ via switch	Supported GA to U3	Supported GA to U3	Supported GA/U1/U2	Supported GA/U1/U2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Supported GA/U1/U2	Yes	Supported	*7

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*7 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

<sup>\*8</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*9</sup> SAN boot is suppoted on 16Gbps Link Speed only.

<sup>\*14</sup> When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

<sup>\*16</sup> ESXi6.5 U2/ESXi6.0 U3 is supported via FC switch connection only.

					Stor	rage			Cluster	
VM	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX8900 S4 (FC 16Gbps port)	DX8900 S4 (FC 32Gbps port)	SAN boot	HA/FT *1	Instruction for use
	PY-FC351/PYBFC351/	VAMP	Direct/ via switch	Supported U2	Supported U2	N.A.	N.A.	Yes	Supported	
	PYBFC351L PY-FC352/PYBFC352/ PYBFC352L	VAMP + Storage Cluster	via switch *8	Supported U2	Supported U2	N.A.	N.A.	Yes	Supported	*7
	S26361-F4044-L501/E1/E201 S26361-F4044-L502/E2/E202	OS bundled	Direct/ via switch	Supported U2/U3	Supported U2/U3	Planned 2	Planned 2	Yes	Supported	
	*14	OS bundled + Storage Cluster	via switch *8	Supported U2/U3	Supported U2/U3	Planned 2	Planned 2	Yes	Supported	*7
	PY-FC341/PYBFC341/	VAMP	Direct/ via switch	Supported U2	Supported U2	N.A.	N.A.	Yes	Supported	
	PY-FC341/FYBFC341/ PYBFC341L PY-FC342/PYBFC342/	VAMP + Storage Cluster	via switch *8	Supported U2	Supported U2	N.A.	N.A.	Yes	Supported	*7
	PYBFC342L S26361-F4043-L501/E1/E201	OS bundled	Direct/ via switch	Supported U2/U3	Supported U2/U3	Planned 2	Planned 2	Yes	Supported	
	S26361-F4043-L502/E2/E202	OS bundled + Storage Cluster	via switch *8	Supported U2/U3	Supported U2/U3	Planned 2	Planned 2	Yes	Supported	*7
	PY-FC331/PYBFC331/	VAMP	Direct/ via switch	Supported U2	Supported U2	N.A.	N.A.	Yes	Supported	
	PYBFC331L PY-FC332/PYBFC332/	VAMP + Storage Cluster	via switch *8	Supported U2	Supported U2	N.A.	N.A.	Yes	Supported	*7
	PYBFC332L S26361-F5596-L501/E1/E201 S26361-F5596-L502/E2/E202 *14	OS bundled	Direct/ via switch	Supported U2/U3	Supported U2/U3	Planned 2	Planned 2	Yes	Supported	
VMware		OS bundled + Storage Cluster	via switch *8	Supported U2/U3	Supported U2/U3	Planned 2	Planned 2	Yes	Supported	*7
ESXi 6.0		VAMP	Direct/ via switch	Supported GA/U1/U2	Supported GA/U1/U2	N.A.	N.A.	Yes *3*9	Supported	
	PY-FC221/PY-FC222/	VAMP + Storage Cluster	via switch *8	Supported GA/U1/U2	Supported GA/U1/U2	N.A.	N.A.	Yes *3*9	Supported	*7
	S26361-F4994-L501/ S26361-F4994-L502	OS bundled	Direct/ via switch	Supported GA to U3	Supported GA to U3	Planned 2	Planned 2	Yes *3*9	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA/U1/U2	Supported GA/U1/U2	Planned 2	Planned 2	Yes *3*9	Supported	*7
		VAMP		Supported GA/U1/U2	Supported GA/U1/U2	N.A.	N.A.	Yes *9	Supported	
	PY-FCD12/ PYBFCD121/PYBFCD122	VAMP + Storage Cluster	0 " 1 1 1	Supported GA/U1/U2	Supported GA/U1/U2	N.A.	N.A.	Yes *9	Supported	*7
	S26361-F4994-E402/ S26361-F4994-L402 MC-FC162E	OS bundled	Switch blade	Supported GA to U3	Supported GA to U3	Planned 2	Planned 2	Yes *9	Supported	
		OS bundled + Storage Cluster		Supported GA/U1/U2	Supported GA/U1/U2	Planned 2	Planned 2	Yes *9	Supported	*7
		VAMP	Direct/ via switch	Supported GA/U1/U2	Planned 2	N.A.	N.A.	Yes	Supported	
	PY-FC201/PY-FC202 PG-FC203/PG-FC204	VAMP + Storage Cluster	via switch *8	Supported GA/U1/U2	Planned 2	N.A.	N.A.	Yes	Supported	*7
	S26361-F3961-L1/ S26361-F3961-L2	OS bundled	Direct/ via switch	Supported GA to U3 *16	Planned 2	Planned 2	Planned 2	Yes	Supported	
	520301-F3901-L2	OS bundled + Storage Cluster	via switch *8	Supported GA/U1/U2	Planned 2	Planned 2	Planned 2	Yes	Supported	*7

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.
\*3 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*7 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

<sup>\*8</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*9</sup> SAN boot is suppoted on 16Gbps Link Speed only.

<sup>\*14</sup> When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection. 219/280

<sup>\*16</sup> ESXi6.5 U2/ESXi6.0 U3 is supported via FC switch connection only.

					Stor	rage			Cluster	
VM	HBA *2	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series)	DX8900 S4 (FC 16Gbps port)	DX8900 S4 (FC 32Gbps port)	SAN boot	HA/FT *1	Instruction for use
		VAMP	Switch blade/ Pass-through blade	Supported GA/U1/U2	Planned 2	N.A.	N.A.	Yes	Supported	
	PY-FCD02	VAMP + Storage Cluster		Supported GA/U1/U2	Planned 2	N.A.	N.A.	Yes	Supported	*7
	PG-FCD202 S26361-F3874-L1	OS bundled		Supported GA/U1/U2	Planned 2	Planned 2	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster		Supported GA/U1/U2	Planned 2	Planned 2	Planned 2	Yes	Supported	*7
		VAMP	Direct/ via switch	Supported GA/U1/U2	Planned 2	N.A.	N.A.	Yes	Supported	
	PY-FC211/PY-FC212 PG-FC205/PG-FC206	VAMP + Storage Cluster	via switch *8	Supported GA/U1/U2	Planned 2	N.A.	N.A.	Yes	Supported	*7
	S26361-F3631-L1/ S26361-F3631-L2	OS bundled	Direct/ via switch	Supported GA to U3 *16	Planned 2	Planned 2	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA/U1/U2	Planned 2	Planned 2	Planned 2	Yes	Supported	*7
	PY-FC321/PY-FC322/	VAMP	Direct/ via switch	Supported GA/U1/U2	Supported GA/U1/U2	N.A.	N.A.	Yes	Supported	
VMware	S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201	VAMP + Storage Cluster	via switch *8	Supported GA/U1/U2	Supported GA/U1/U2	N.A.	N.A.	Yes	Supported	*7
ESXi 6.0	S26361-F5580-L502 S26361-F5580-E2	OS bundled	Direct/ via switch	Supported GA to U3	Supported GA to U3	Planned 2	Planned 2	Yes	Supported	
	S26361-F5580-E202	OS bundled + Storage Cluster	via switch *8	Supported GA to U3	Supported GA to U3	Planned 2	Planned 2	Yes	Supported	*7
	PY-FC311/PY-FC312/	VAMP	Direct/ via switch	Supported GA/U1/U2	Supported GA/U1/U2	N.A.	N.A.	Yes	Supported	
	S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201	VAMP + Storage Cluster	via switch *8	Supported GA/U1/U2	Supported GA/U1/U2	N.A.	N.A.	Yes	Supported	*7
	S26361-F5313-L502 S26361-F5313-E2	OS bundled	Direct/ via switch	Supported GA to U3	Supported GA to U3	Planned 2	Planned 2	Yes	Supported	
	S26361-F5313-E202	OS bundled + Storage Cluster	via switch *8	Supported GA/U1/U2	Supported GA/U1/U2	Planned 2	Planned 2	Yes	Supported	*7
	PY-CN302/ PYBCN302/PYBCN302L	VAMP		Supported GA/U1/U2	Planned 2	N.A.	N.A.	No	Supported	
	PY-CN302U/PYBCN302U S26361-F5250-L501	VAMP + Storage Cluster	FCoE switch *8	Planned 2	Planned 2	N.A.	N.A.	No	Planned 2	
	S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211	OS bundled		Supported GA/U1/U2	Planned 2	Planned 2	Planned 2	Yes	Supported	
	S26361-F5302-E211	OS bundled + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.
\*2 Please ask VMware if the connected HBA is certified by VMware or not.

<sup>\*7 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

<sup>\*8</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*16</sup> ESXi6.5 U2/ESXi6.0 U3 is supported via FC switch connection only.

					Stor	age			Cluster	
VM	HBA *2	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	AF series (except AF S3 series)	DX8900 S4 (FC 16Gbps port)	DX8900 S4 (FC 32Gbps port)	SAN boot	HA/FT *1	Instruction for use
		VAMP	Direct/ via switch	Supported U2	Supported U2	N.A.	N.A.	Yes	Supported	
	Emulex LPe32000 / LPe32002	VAMP + Storage Cluster	via switch *8	Supported U2	Supported U2	N.A.	N.A.	Yes	Supported	*7
	or OEM products *14	OS bundled	Direct/ via switch	Supported U2/U3	Supported U2/U3	Planned 2	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported U2/U3	Supported U2/U3	Planned 2	Planned 2	Yes	Supported	*7
		VAMP	Direct/ via switch	Supported U2	Supported U2	N.A.	N.A.	Yes	Supported	
	Qlogic QLE2740/QLE2742/QLE2764	VAMP + Storage Cluster	via switch *8	Supported U2	Supported U2	N.A.	N.A.	Yes	Supported	*7
	or OEM product	OS bundled	Direct/ via switch	Supported U2/U3	Supported U2/U3	Planned 2	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported U2/U3	Supported U2/U3	Planned 2	Planned 2	Yes	Supported	*7
		VAMP	Direct/ via switch	Supported U2	Supported U2	N.A.	N.A.	Yes	Supported	
	Emulex LPe31000 / LPe31002 or OEM products *14	VAMP + Storage Cluster	via switch *8	Supported U2	Supported U2	N.A.	N.A.	Yes	Supported	*7
		OS bundled	Direct/ via switch	Supported U2/U3	Supported U2/U3	Planned 2	Planned 2	Yes	Supported	
VMware		OS bundled + Storage Cluster	via switch *8	Supported U2/U3	Supported U2/U3	Planned 2	Planned 2	Yes	Supported	*7
ESXi 6.0		VAMP	Direct/ via switch	Supported GA/U1/U2	Supported GA/U1/U2	N.A.	N.A.	Yes *9	Supported	
	Emulex	VAMP + Storage Cluster	via switch *8	Supported GA/U1/U2	Supported GA/U1/U2	N.A.	N.A.	Yes *9	Supported	*7
	LPe16000 / LPe16002 or OEM products	OS bundled	Direct/ via switch	Supported GA to U3	Supported GA to U3	Planned 2	Planned 2	Yes *9	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA/U1/U2	Supported GA/U1/U2	Planned 2	Planned 2	Yes *9	Supported	*7
		VAMP	Direct/ via switch	Supported GA/U1/U2	Supported GA/U1/U2	N.A.	N.A.	Yes	Supported	
	QLogic QLE2690/QLE2692/	VAMP + Storage Cluster	via switch *8	Supported GA/U1/U2	Supported GA/U1/U2	N.A.	N.A.	Yes	Supported	*7
	QLE2694 or OEM products	OS bundled	Direct/ via switch	Supported GA to U3	Supported GA to U3	Planned 2	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA to U3	Supported GA to U3	Planned 2	Planned 2	Yes	Supported	*7
		VAMP	Direct/ via switch	Supported GA/U1/U2	Supported GA/U1/U2	N.A.	N.A.	Yes	Supported	
	Qlogic QLE2660/QLE2662	VAMP + Storage Cluster	via switch *8	Supported GA/U1/U2	Supported GA/U1/U2	N.A.	N.A.	Yes	Supported	*7
	QLE2670/QLE2672 or OEM products	OS bundled	Direct/ via switch	Supported GA to U3	Supported GA to U3	Planned 2	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA/U1/U2	Supported GA/U1/U2	Planned 2	Planned 2	Yes	Supported	*7

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.
\*2 Please ask VMware if the connected HBA is certified by VMware or not.

<sup>\*7 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

<sup>\*8</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.
\*14 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

					Stor	age			Cluster	
VM	HBA *2	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX8900 S4 (FC 16Gbps port)	DX8900 S4 (FC 32Gbps port)	SAN boot	HA/FT *1	Instruction for use
		VAMP	Direct/ via switch	Supported GA/U1/U2	Planned 2	N.A.	N.A.	Yes	Supported	
	Emulex LPe12000/LPe12002/LPe1250	VAMP + Storage Cluster	via switch *8	Supported GA/U1/U2	Planned 2	N.A.	N.A.	Yes	Supported	*7
	or OEM products	OS bundled	Direct/ via switch	Supported GA to U3 *16	Planned 2	Planned 2	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA/U1/U2	Planned 2	Planned 2	Planned 2	Yes	Supported	*7
		VAMP	Direct/ via switch	Supported GA/U1/U2	Planned 2	N.A.	N.A.	Yes	Supported	
	QLogic	VAMP + Storage Cluster	via switch *8	Supported GA/U1/U2	Planned 2	N.A.	N.A.	Yes	Supported	*7
	QLE2560/QLE2562 or OEM products	OS bundled	Direct/ via switch	Supported GA to U3 *16	Planned 2	Planned 2	Planned 2	Yes	Supported	
VMware		OS bundled + Storage Cluster	via switch *8	Supported GA/U1/U2	Planned 2	Planned 2	Planned 2	Yes	Supported	*7
ESXi 6.0		VAMP		Supported GA/U1/U2	Planned 2	N.A.	N.A.	No	Supported	
	Emulex OCe14401B	VAMP + Storage Cluster	FCoE switch	Planned 2	Planned 2	N.A.	N.A.	No	Planned 2	
	or OEM products	OS bundled	*8	Supported GA/U1/U2	Planned 2	Planned 2	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	
		VAMP		Supported GA/U1/U2	Planned 2	N.A.	N.A.	No	Supported	
	Emulex OCe14102	VAMP + Storage Cluster	FCoE switch	Planned 2	Planned 2	N.A.	N.A.	No	Planned 2	
	or OEM products	OS bundled	*8	Supported GA/U1/U2	Planned 2	Planned 2	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster		Planned 2	Planned 2	Planned 2	Planned 2	Yes	Planned 2	

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.
\*2 Please ask VMware if the connected HBA is certified by VMware or not.

<sup>\*7 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

<sup>\*8</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

<sup>\*16</sup> ESXi6.5 U2/ESXi6.0 U3 is supported via FC switch connection only.

				Sto	rage		Cluster	
VM	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	SAN boot	HA/FT *1	Instruction for use
		VAMP	Direct/ via switch	Supported GA to U3	Planned 2	Yes	Supported	
	MC-0JFC3*	VAMP + Storage Cluster	via switch *8	Supported GA to U3	Planned 2	Yes	Supported	*7
	MC-0JFC9*	OS bundled	Direct/ via switch	Supported GA to U3	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA to U3	Planned 2	Yes	Supported	*7
		VAMP	Direct/ via switch	Supported GA to U3	Planned 2	Yes	Supported	
	MC-0JFC4*	VAMP + Storage Cluster	via switch *8	Supported GA to U3	Planned 2	Yes	Supported	*7
	MC-0JFCA*	OS bundled	Direct/ via switch	Supported GA to U3	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA to U3	Planned 2	Yes	Supported	*7
		VAMP	Direct/ via switch	Supported U2/U3	Planned 2	Yes	Supported	
	MC-0JFC5* MC-0JFC6*	VAMP + Storage Cluster	via switch *8	Supported U2/U3	Planned 2	Yes	Supported	*7
		OS bundled	Direct/ via switch	Supported U2/U3	Planned 2	Yes	Supported	
VMware		OS bundled + Storage Cluster	via switch *8	Supported U2/U3	Planned 2	Yes	Supported	*7
ESXi 5.5		VAMP	Direct/ via switch	Supported GA to U3	Planned 2	Yes *3*9	Supported	
	MC-0JFC7*	VAMP + Storage Cluster	via switch *8	Supported GA to U3	Planned 2	Yes *3*9	Supported	*7
	MC-0JFC8*	OS bundled	Direct/ via switch	Supported GA to U3	Planned 2	Yes *3*9	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA to U3	Planned 2	Yes *3*9	Supported	*7
		VAMP	Direct/ via switch	Supported U2/U3	Planned 2	Yes	Supported	
	MC-0JFCB*	VAMP + Storage Cluster	via switch *8	Supported U2/U3	Planned 2	Yes	Supported	*7
	MC-0JFCC*	OS bundled	Direct/ via switch	Supported U2/U3	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported U2/U3	Planned 2	Yes	Supported	*7
		VAMP	Direct/ via switch	Supported GA/U1/U2	Planned 2	Yes	Supported	
	MC-0JFC11/MC-0JFC21	VAMP + Storage Cluster	via switch *8	Supported GA/U1/U2	Planned 2	Yes	Supported	*7
	IVIO-03FO I I/IVIO-03FOZ I	OS bundled	Direct/ via switch	Supported GA/U1/U2	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA/U1/U2	Planned 2	Yes	Supported	*7

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*7 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

<sup>\*8</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser. \*9 SAN boot is supported on 16Gbps Link Speed only.

				Stor	rage		Cluster	
VM	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	SAN boot	HA/FT *1	Instruction for use
		VAMP	Direct/ via switch	Supported GA to U3	Planned 2	Yes *3*9	Supported	
	PY-FC221/PY-FC222/ S26361-F4994-L501/	VAMP + Storage Cluster	via switch *8	Supported GA to U3	Planned 2	Yes *3*9	Supported	*7
	S26361-F4994-L502	OS bundled	Direct/ via switch	Supported GA to U3	Planned 2	Yes *3*9	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA to U3	Planned 2	Yes *3*9	Supported	*7
		VAMP		Supported GA to U3	Planned 2	Yes *9	Supported	
	PY-FCD12/ PYBFCD121/PYBFCD122	VAMP + Storage Cluster	Switch blade	Supported GA to U3	Planned 2	Yes *9	Supported	*7
	S26361-F4994-E402/ S26361-F4994-L402	OS bundled	Switch blade	Supported GA to U3	Planned 2	Yes *9	Supported	
		OS bundled + Storage Cluster		Supported GA to U3	Planned 2	Yes *9	Supported	*7
		VAMP	Direct/ via switch	Supported GA to U3	Planned 2	Yes	Supported	
	PY-FC201/PY-FC202 PG-FC203/PG-FC204	VAMP + Storage Cluster	via switch *8	Supported GA to U3	Planned 2	Yes	Supported	*7
	S26361-F3961-L1/ S26361-F3961-L2	OS bundled	Direct/ via switch	Supported GA to U3	Planned 2	Yes	Supported	
VMware		OS bundled + Storage Cluster	via switch *8	Supported GA to U3	Planned 2	Yes	Supported	*7
ESXi 5.5		VAMP		Supported GA to U3	Planned 2	Yes	Supported	
	PY-FCD02 PG-FCD202	VAMP + Storage Cluster	Switch blade/ Pass-through	Supported GA to U3	Planned 2	Yes	Supported	*7
	S26361-F3874-L1	OS bundled	blade	Supported GA to U3	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster		Supported GA to U3	Planned 2	Yes	Supported	*7
		VAMP	Direct/ via switch	Supported GA to U3	Planned 2	Yes	Supported	
	PY-FC211/PY-FC212 PG-FC205/PG-FC206	VAMP + Storage Cluster	via switch *8	Supported GA to U3	Planned 2	Yes	Supported	*7
	S26361-F3631-L1/ S26361-F3631-L2	OS bundled	Direct/ via switch	Supported GA to U3	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA to U3	Planned 2	Yes	Supported	*7
	PY-FC321/PY-FC322/	VAMP	Direct/ via switch	Supported U2/U3	Planned 2	Yes	Supported	
	\$26361-F5580-L501 \$26361-F5580-E1 \$26361-F5580-E201 \$26361-F5580-L502 \$26361-F5580-E2 \$26361-F5580-E202	VAMP + Storage Cluster	via switch *8	Supported U2/U3	Planned 2	Yes	Supported	*7
		OS bundled	Direct/ via switch	Supported U2/U3	Planned 2	Yes	Supported	
*1 vSphere Metro Stor		OS bundled + Storage Cluster	via switch *8	Supported U2/U3	Planned 2	Yes	Supported	*7

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.
\*3 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*7 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

<sup>\*8</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.
\*9 SAN boot is supported on 16Gbps Link Speed only.

				Sto	rage		Cluster	
VM	HBA *2	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F	DX S4 series (except DX8900 S4) AF series (except AF S3 series)	SAN boot	HA/FT *1	Instruction for use
	PY-FC311/PY-FC312/ S26361-F5313-L501	VAMP	Direct/ via switch	Supported U2/U3	Planned 2	Yes	Supported	
	S26361-F5313-E1	VAMP + Storage Cluster	via switch *8	Supported U2/U3	Planned 2	Yes	Supported	*7
	S26361-F5313-E201 S26361-F5313-L502	OS bundled	Direct/ via switch	Supported U2/U3	Planned 2	Yes	Supported	
	S26361-F5313-E2 S26361-F5313-E202	OS bundled + Storage Cluster	via switch *8	Supported U2/U3	Planned 2	Yes	Supported	*7
		VAMP		Supported GA to U3	Planned 2	No	Supported	
	PY-CN202	VAMP + Storage Cluster	FCoE switch	Planned 2	Planned 2	No	Planned 2	
	PG-292B S26361-F3592-L2	OS bundled	*8	Supported GA to U3	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster		Planned 2	Planned 2	Yes	Planned 2	
	PY-CN302/ PYBCN302/PYBCN302L	VAMP		Supported GA to U3	Planned 2	No	Supported	
		VAMP + Storage Cluster	FCoE switch *8	Planned 2	Planned 2	No	Planned 2	
	PY-CN302U/PYBCN302U \$26361-F5250-L501 \$26361-F5250-E1 \$26361-F5250-E201 \$26361-F5302-L211 \$26361-F5302-E211	OS bundled		Supported GA to U3	Planned 2	Yes	Supported	
VMware		OS bundled + Storage Cluster		Planned 2	Planned 2	Yes	Planned 2	
ESXi 5.5		VAMP	Direct/ via switch	Supported GA to U3	Planned 2	Yes *9	Supported	
	Emulex LPe16000 / LPe16002	VAMP + Storage Cluster	via switch *8	Supported GA to U3	Planned 2	Yes *9	Supported	*7
	or OEM products	OS bundled	Direct/ via switch	Supported GA to U3	Planned 2	Yes *9	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA to U3	Planned 2	Yes *9	Supported	*7
		VAMP	Direct/ via switch	Supported U2/U3	Planned 2	Yes	Supported	
	QLogic QLE2690/QLE2692/	VAMP + Storage Cluster	via switch *8	Supported U2/U3	Planned 2	Yes	Supported	*7
	QLE2694 or OEM products	OS bundled	Direct/ via switch	Supported U2/U3	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported U2/U3	Planned 2	Yes	Supported	*7
	Ologia	VAMP	Direct/ via switch	Supported U2/U3	Planned 2	Yes	Supported	
	Qlogic QLE2660/QLE2662	VAMP + Storage Cluster	via switch *8	Supported U2/U3	Planned 2	Yes	Supported	*7
	QLE2670/QLE2672 or OEM products	OS bundled	Direct/ via switch	Supported U2/U3	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported U2/U3	Planned 2	Yes	Supported	*7

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.
\*2 Please ask VMware if the connected HBA is certified by VMware or not.

<sup>\*7 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

<sup>\*8</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.
\*9 SAN boot is supported on 16Gbps Link Speed only.

				Sto	rage		Cluster	
VM	HBA *2	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	AF series (except AF S3 series)	SAN boot	HA/FT *1	Instruction for use
	Brocade Brocade 1860 *6	VAMP	via switch	Supported GA to U3	Planned 2	Yes	Supported	
	or OEM products	OS bundled	via switch	Supported GA to U3	Planned 2	Yes	Supported	
		VAMP	Direct/ via switch	Supported GA to U3	Planned 2	Yes	Supported	
	Emulex LPe12000/LPe12002/LPe1250	VAMP + Storage Cluster	via switch *8	Supported GA to U3	Planned 2	Yes	Supported	*7
	or OEM products	OS bundled	Direct/ via switch	Supported GA to U3	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA to U3	Planned 2	Yes	Supported	*7
		VAMP	Direct/ via switch	Supported GA to U3	Planned 2	Yes	Supported	
	QLogic QLE2560/QLE2562	VAMP + Storage Cluster	via switch *8	Supported GA to U3	Planned 2	Yes	Supported	*7
	or OEM products	OS bundled	Direct/ via switch	Supported GA to U3	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster	via switch *8	Supported GA to U3	Planned 2	Yes	Supported	*7
	Brocade Brocade 815/825 or OEM products	VAMP	via switch	Supported GA to U3	Planned 2	Yes	Supported	
		OS bundled		Supported GA to U3	Planned 2	Yes	Supported	
VMware		VAMP	FCoE switch *8	Supported GA to U3	Planned 2	No	Supported	
ESXi 5.5	Emulex OCe14401B	VAMP + Storage Cluster		Planned 2	Planned 2	No	Planned 2	
	or OEM products	OS bundled		Supported GA to U3	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster		Planned 2	Planned 2	Yes	Planned 2	
		VAMP		Supported GA to U3	Planned 2	No	Supported	
	Emulex OCe14102	VAMP + Storage Cluster	FCoE switch	Planned 2	Planned 2	No	Planned 2	
	or OEM products	OS bundled	*8	Supported GA to U3	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster		Planned 2	Planned 2	Yes	Planned 2	
		VAMP		Supported GA to U3	Planned 2	No	Supported	
	Emulex OCe10102	VAMP + Storage Cluster	FCoE switch		Planned 2	No	Planned 2	
	or OEM products	OS bundled	*8	Supported GA to U3	Planned 2	Yes	Supported	
		OS bundled + Storage Cluster		Planned 2	Planned 2	Yes	Planned 2	
	Brocade Brocade 415/425	VAMP	via switch	Supported GA to U3	N.A.	Yes	Supported	
	or OEM products	OS bundled		Supported GA to U3	N.A.	Yes	Supported	

- \*1 vSphere Metro Storage Cluster (vMSC) is not supported.
  \*2 Please ask VMware if the connected HBA is certified by VMware or not.
- \*6 Direct connection is supported only with 16Gbps CA.
- \*7 "Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.
- \*8 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.
- \*9 SAN boot is supported on 16Gbps Link Speed only.

					Stor	age			Cluster	
VM	НВА	Path Fallover type	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	HA 3.2.x/3.3.x/3.4.x	Instruction for use
	MC-0JFCF*	OS bundled	Direct/ via switch	Supported 3.4.x	Supported 3.4.x	Supported 3.4.x	Supported 3.4.x	Yes *3	Supported	
	MC-0JFCG* *14	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	MC-0JFCK*	OS bundled	Direct/ via switch	Supported 3.4.x	Supported 3.4.x	Supported 3.4.x	Supported 3.4.x	Yes *3	Supported	
	MC-0JFCL*	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	MC-0JFCM*	OS bundled	Direct/ via switch	Supported 3.4.x	Supported 3.4.x	Supported 3.4.x	Supported 3.4.x	Yes *3	Supported	
	MC-0JFCN*	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	MC-0JFCP* MC-0JFCQ*	OS bundled	Direct/ via switch	Supported 3.4.x	Supported 3.4.x	Supported 3.4.x	Supported 3.4.x	Yes *3	Supported	
		OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
Oracle VM 3	MC-0JFC3*	OS bundled	via switch	Supported 3.3.x/3.4.x	Planned 2	Supported 3.3.x/3.4.x	Planned 2	Yes *3	Supported	
*5	MC-0JFC9*	OS bundled + Storage Cluster	via switch *8	Supported 3.3.x/3.4.x	Planned 2	Supported 3.3.x/3.4.x	Planned 2	*4	Supported	
	MC-0JFC4*	OS bundled	via switch	Supported 3.3.x/3.4.x	Planned 2	Supported 3.3.x/3.4.x	Planned 2	Yes *3	Supported	
	MC-0JFCA*	OS bundled + Storage Cluster	via switch *8	Supported 3.3.x/3.4.x	Planned 2	Supported 3.3.x/3.4.x	Planned 2	*4	Supported	
	MC-0JFC5*	OS bundled	via switch	Supported 3.3.x/3.4.x	Planned 2	Supported 3.3.x/3.4.x	Planned 2	Yes *3	Supported	
	MC-0JFC6*	OS bundled + Storage Cluster	via switch *8	Supported 3.3.x/3.4.x	Planned 2	Supported 3.3.x/3.4.x	Planned 2	*4	Supported	
	MC-0JFC7*	OS bundled	via switch	Supported 3.3.x/3.4.x	Supported 3.3.x/3.4.x	Supported 3.3.x/3.4.x	Supported 3.3.x/3.4.x	Yes *3 *9	Supported	
	MC-0JFC8*	OS bundled + Storage Cluster	via switch *8	Supported 3.3.x/3.4.x	Supported 3.3.x/3.4.x	Supported 3.3.x/3.4.x	Supported 3.3.x/3.4.x	*4	Supported	
	MC-0JFCB*	OS bundled	via switch	Supported 3.3.x/3.4.x	Supported 3.3.x/3.4.x	Supported 3.3.x/3.4.x	Supported 3.3.x/3.4.x	Yes *3 *9	Supported	
	MC-0JFCC*	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

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<sup>\*4</sup> Please contact Fujitsu about SAN boot on Storage Cluster configuration.

<sup>\*5</sup> When OVM 3.4.6 is used, please use OVM 3.4.6.1

<sup>\*8</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

\*9 SAN boot is supported on 16Gbps Link Speed only.

\*14 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

					Stor	age			Cluster	
VM	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	HA 3.2.x/3.3.x/3.4.x	Instruction for use
	PY-FC351/PYBFC351/ PYBFC351L PY-FC352/PYBFC352/ PYBFC352L	OS bundled	Direct/ via switch	Supported 3.4.x	Supported 3.4.x	Supported 3.4.x	Supported 3.4.x	Yes *3	Supported	
	S26361-F4044-L501/E1/E201 S26361-F4044-L502/E2/E202 *14	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	PY-FC341/PYBFC341/ PYBFC341L PY-FC342/PYBFC342/	OS bundled	Direct/ via switch	Supported 3.4.x	Supported 3.4.x	Supported 3.4.x	Supported 3.4.x	Planned 2	Supported	
	PYBFC342L S26361-F4043-L501/E1/E201 S26361-F4043-L502/E2/E202	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	PY-FC331/PYBFC331/ PYBFC331L PY-FC332/PYBFC332/ PYBFC332L	OS bundled	Direct/ via switch	Supported 3.4.x	Supported 3.4.x	Supported 3.4.x	Supported 3.4.x	Yes *3	Supported	
	\$26361-F5596-L501/E1/E201 \$26361-F5596-L502/E2/E202 *14	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1	OS bundled	Direct/ via switch	Supported 3.4.x	Supported 3.4.x	Supported 3.4.x	Supported 3.4.x	Planned 2	Supported	
	S26361-F5580-E201 S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
Oracle VM 3	PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1	OS bundled	Direct/ via switch	Supported 3.4.x	Supported 3.4.x	Supported 3.4.x	Supported 3.4.x	Planned 2	Supported	
	S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	PY-FC221/PY-FC222/	OS bundled	Direct/via switch	Supported 3.2.x/3.3.x/3.4.x	Supported 3.2.x/3.3.x/3.4.x	Supported 3.2.x/3.3.x/3.4.x	Supported 3.2.x/3.3.x/3.4.x	Yes *3 *9	Supported	
	S26361-F4994-L501/ S26361-F4994-L502	OS bundled + Storage Cluster	via switch *8	Supported 3.2.x/3.3.x/3.4.x	Supported 3.2.x/3.3.x/3.4.x	Supported 3.2.x/3.3.x/3.4.x	Supported 3.2.x/3.3.x/3.4.x	*4	Supported	
	PY-FCD12/ PYBFCD121/PYBFCD122	OS bundled	_	Supported 3.2.x/3.3.x/3.4.x	Supported 3.2.x/3.3.x/3.4.x	Supported 3.2.x/3.3.x/3.4.x	Supported 3.2.x/3.3.x/3.4.x	Yes *3 *9	Supported	
	S26361-F4994-E402/ S26361-F4994-L402	OS bundled + Storage Cluster	Switch blade	Supported 3.2.x/3.3.x/3.4.x	Supported 3.2.x/3.3.x/3.4.x	Supported 3.2.x/3.3.x/3.4.x	Supported 3.2.x/3.3.x/3.4.x	*4	Supported	
	PY-FC201/PY-FC202 PG-FC203/PG-FC204	OS bundled	Direct/via switch	Supported 3.2.x/3.3.x/3.4.x	Planned 2	Supported 3.2.x/3.3.x/3.4.x	Planned 2	Yes *3	Supported	
	S26361-F3961-L1/ S26361-F3961-L2	OS bundled + Storage Cluster	via switch *8	Supported 3.2.x/3.3.x/3.4.x	Planned 2	Supported 3.2.x/3.3.x/3.4.x	Planned 2	*4	Supported	
	PY-FCD02 PG-FCD202	OS bundled	Switch blade/ Pass-through	Supported 3.2.x/3.3.x/3.4.x	Planned 2	Supported 3.2.x/3.3.x/3.4.x	Planned 2	Yes *3	Supported	
	S26361-F3874-L1	OS bundled + Storage Cluster	blade	Supported 3.2.x/3.3.x/3.4.x	Planned 2	Supported 3.2.x/3.3.x/3.4.x	Planned 2	*4	Supported	
	PY-FC211/PY-FC212 PG-FC205/PG-FC206	OS bundled	Direct/via switch	Supported 3.2.x/3.3.x/3.4.x	Planned 2	Supported 3.2.x/3.3.x/3.4.x	Planned 2	Yes *3	Supported	
	S26361-F3631-L1/ S26361-F3631-L2	OS bundled + Storage Cluster	via switch *8	Supported 3.2.x/3.3.x/3.4.x	Planned 2	Supported 3.2.x/3.3.x/3.4.x	Planned 2	*4	Supported	

	PY-CN202 PG-292B	OS bundled	FCoE switch	Supported 3.2.x/3.3.x/3.4.x	Planned 2	Supported 3.2.x/3.3.x/3.4.x	Planned 2	Yes *3	Supported
	S26361-F3592-L2	OS bundled + Storage Cluster	*8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2
Oracle VM 3	PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501	OS bundled	FCoE switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2
	S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211 S26361-F5302-E211	OS bundled + Storage Cluster	*8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*4</sup> Please contact Fujitsu about SAN boot on Storage Cluster configuration.

<sup>\*8</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

\*9 SAN boot is supported on 16Gbps Link Speed only.

\*14 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

					Stor	rage			Cluster	
VM	НВА	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	HA 3.2.x/3.3.x/3.4.x	Instruction for use
	Emulex LPe32000 / LPe32002	OS bundled	Direct/ via switch	Supported 3.4.x	Supported 3.4.x	Supported 3.4.x	Supported 3.4.x	Yes *3	Supported	
	or OEM products *14	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	Emulex LPe31000 / LPe31002	OS bundled	Direct/ via switch	Supported 3.4.x	Supported 3.4.x	Supported 3.4.x	Supported 3.4.x	Yes *3	Supported	
	or OEM products *14	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	Emulex LPe16000 / LPe16002	OS bundled	Direct/via switch	Supported 3.2.x/3.3.x/3.4.x	Supported 3.2.x/3.3.x/3.4.x	Supported 3.2.x/3.3.x/3.4.x	Supported 3.2.x/3.3.x/3.4.x	Yes *3 *9	Supported	
	or OEM products	OS bundled + Storage Cluster	via switch *8	Supported 3.2.x/3.3.x/3.4.x	Supported 3.2.x/3.3.x/3.4.x	Supported 3.2.x/3.3.x/3.4.x	Supported 3.2.x/3.3.x/3.4.x	*4	Supported	
	QLe2740/QLe2742/QLe2764	OS bundled	Direct/ via switch	Supported 3.4.x	Supported 3.4.x	Supported 3.4.x	Supported 3.4.x	Planned 2	Supported	
	or OEM products	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	QLogic QLE2690/QLE2692/	OS bundled	Direct/ via switch	Supported 3.4.x	Supported 3.4.x	Supported 3.4.x	Supported 3.4.x	Planned 2	Supported	
	QLE2694 or OEM Products	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	Qlogic QLE2660/QLE2662	OS bundled	Direct/ via switch	Supported 3.4.x	Supported 3.4.x	Supported 3.4.x	Supported 3.4.x	Planned 2	Supported	
	QLE2670/QLE2672 or OEM products	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
Oracle VM 3	Brocade Brocade 1860 *6 or OEM products	OS bundled	via switch	Supported 3.2.x/3.3.x/3.4.x	Planned 2	Supported 3.2.x/3.3.x/3.4.x	Planned 2	No	Supported	
	Emulex LPe12000/LPe12002/LPe1250	OS bundled	Direct/via switch	Supported 3.2.x/3.3.x/3.4.x	Planned 2	Supported 3.2.x/3.3.x/3.4.x	Planned 2	Yes *3	Supported	
	or OEM products	OS bundled + Storage Cluster	via switch *8	Supported 3.2.x/3.3.x/3.4.x	Planned 2	Supported 3.2.x/3.3.x/3.4.x	Planned 2	*4	Supported	
	QLogic QLE2560/QLE2562	OS bundled	Direct/via switch	Supported 3.2.x/3.3.x/3.4.x	Planned 2	Supported 3.2.x/3.3.x/3.4.x	Planned 2	Yes *3	Supported	
	or OEM products	OS bundled + Storage Cluster	via switch *8	Supported 3.2.x/3.3.x/3.4.x	Planned 2	Supported 3.2.x/3.3.x/3.4.x	Planned 2	*4	Supported	
	Brocade Brocade 815/825 or OEM products	OS bundled	via switch	Supported 3.2.x/3.3.x/3.4.x	Planned 2	Supported 3.2.x/3.3.x/3.4.x	Planned 2	No	Supported	
	Emulex OCe14102	OS bundled	FCoE switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	or OEM products	OS bundled + Storage Cluster	*8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	Emulex OCe10102 or OEM products	OS bundled	FCoE switch	Supported 3.2.x/3.3.x/3.4.x	Planned 2	Supported 3.2.x/3.3.x/3.4.x	Planned 2	Yes *3	Supported	
		OS bundled + Storage Cluster	*8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	Brocade Brocade 415/425 or OEM products	OS bundled	via switch	Supported 3.2.x/3.3.x/3.4.x	N.A.	Supported 3.2.x/3.3.x/3.4.x	N.A.	Yes *3	Supported	

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*4</sup> Please contact Fujitsu about SAN boot on Storage Cluster configuration.

<sup>\*6</sup> Direct connection is supported only with 16Gbps CA.

<sup>\*8</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser. \*9 SAN boot is supported on 16Gbps Link Speed only.

<sup>\*14</sup> When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS ground be set as "Fabric" connection.

					Stor	rage			Cluster	
VM	HBA	Path Failover	Connected type	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX8900 S4 (FC 16Gbps port)	DX8900 S4 (FC 32Gbps port)	SAN boot	everRun MX 6.2	Instruction for use
	PY-FC221/PY-FC222/ S26361-F4994-L501/ S26361-F4994-L502	OS bundled	Direct/ via switch	Supported 6.0.2	Planned 2	Supported 6.0.2	Planned 2	Yes *3*9	Supported	
	PY-FCD12/ PYBFCD121/PYBFCD122 S26361-F4994-E402/ S26361-F4994-L402	OS bundled	Switch blade	Supported 6.0.2	Planned 2	Supported 6.0.2	Planned 2	Yes *9	Supported	
everRun MX & XenServer 6.0.2	PY-FC201/PY-FC202 PG-FC203/PG-FC204 S26361-F3961-L1/ S26361-F3961-L2	OS bundled	Direct/ via switch	Supported 6.0.2	Planned 2	Supported 6.0.2	Planned 2	Yes	Supported	
	PY-FCD02 PG-FCD202 S26361-F3874-L1	OS bundled	Switch blade/ Pass-through blade	Supported 6.0.2	Planned 2	Supported 6.0.2	Planned 2	Yes	Supported	
	PY-FC211/PY-FC212 PG-FC205/PG-FC206 S26361-F3631-L1/ S26361-F3631-L2	OS bundled	Direct/ via switch	Supported 6.0.2	Planned 2	Supported 6.0.2	Planned 2	Yes	Supported	

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

\*9 SAN boot is supported on 16Gbps Link Speed only.

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					Stora	age			Cluster	
VM	НВА	Path Failover	Connected type	DX S4/S3 series *12 (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	НА	Instruction for use
	PY-FC351/PYBFC351/ PYBFC351L PY-FC352/PYBFC352/ PYBFC352L	OS bundled	Direct/via switch	Supported 8.x	Supported 8.x	Supported 8.x	Supported 8.x	Yes *3	Supported	
	\$26361-F4044-L501/E1/E201 \$26361-F4044-L502/E2/E202 *14	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	PY-FC341/PYBFC341/ PYBFC341L PY-FC342/PYBFC342/ PYBFC342L	OS bundled	Direct/via switch	Supported 8.x	Supported 8.x	Supported 8.x	Supported 8.x	Yes *3	Supported	
	\$26361-F4043-L501/E1/E201 \$26361-F4043-L502/E2/E202 *14	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	PY-FC331/PYBFC331/ PYBFC331L PY-FC332/PYBFC332/ PYBFC332L	OS bundled	Direct/via switch	Supported 8.x	Supported 8.x	Supported 8.x	Supported 8.x	Yes *3	Supported	
	\$26361-F5596-L501/E1/E201 \$26361-F5596-L502/E2/E202 *14	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201	OS bundled	Direct/via switch	Supported 8.x	Supported 8.x	Supported 8.x	Supported 8.x	Yes *3	Supported	
Citrix Hypervisor	S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202 *14	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
(XenServer)	PY-FC221/PY-FC222/	OS bundled	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	S26361-F4994-L501/ S26361-F4994-L502	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	PY-FCD12/ PYBFCD121/PYBFCD122	OS bundled		Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	S26361-F4994-E402/ S26361-F4994-L402	OS bundled + Storage Cluster	Switch blade	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1 S26361-F5313-E201	OS bundled	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	PY-FC201/PY-FC202 PG-FC203/PG-FC204	OS bundled	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	S26361-F3961-L1/ S26361-F3961-L2	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	PY-FCD02	OS bundled	Switch blade/	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	PG-FCD202 S26361-F3874-L1	OS bundled + Storage Cluster	Pass-through blade	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	PY-FC211/PY-FC212 PG-FC205/PG-FC206	OS bundled	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	S26361-F3631-L1/ S26361-F3631-L2	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2 233/28	) Planned 2	Planned 2	Planned 2	Planned 2	Copyright 2023 FUJITSU LIMITED

- \*3 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.
- \*8 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.
  \*9 SAN boot is supported on 16Gbps Link Speed only.
  \*12 DX8700 S3 is not supported.

- \*14 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

					Stor	age			Cluster	
VM	НВА	Path Failover	Connected type	DX S4/S3 series *12 (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	НА	Instruction for use
	Emulex LPe32000 / LPe32002	OS bundled	Direct/via switch	Supported 8.x	Supported 8.x	Supported 8.x	Supported 8.x	Yes *3	Supported	
	or OEM products *14	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	Emulex LPe31000 / LPe31002	OS bundled	Direct/via switch	Supported 8.x	Supported 8.x	Supported 8.x	Supported 8.x	Yes *3	Supported	
	or OEM products *14	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	QLe2740/QLe2742/QLe2764	OS bundled	Direct/ via switch	Supported 8.x	Supported 8.x	Supported 8.x	Supported 8.x	Yes *3	Supported	
Citrix	or OEM products	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
Hypervisor (XenServer)	QLogic QLE2690/QLE2692/	OS bundled	Direct/ via switch	Supported 8.x	Supported 8.x	Supported 8.x	Supported 8.x	Yes *3	Supported	
	QLE2694 or OEM Products	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	Emulex LPe16000 / LPe16002	OS bundled	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	or OEM products	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	Qlogic QLE2660/QLE2662	OS bundled	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	QLE2670/QLE2672 or OEM products	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

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<sup>\*8</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.
\*9 SAN boot is supported on 16Gbps Link Speed only.
\*12 DX8700 S3 is not supported.

<sup>\*14</sup> When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

		<u> </u>		1	Stor	age			Cluster	
VM	НВА	Path Failover	Connected type	DX S4/S3 series *12 (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	НА	Instruction for use
	PY-FC351/PYBFC351/ PYBFC351L PY-FC352/PYBFC352/ PYBFC352L	OS bundled	Direct/via switch	Supported 7.x	Supported 7.x	Supported 7.x	Supported 7.x	Yes *3	Supported	
	\$26361-F4044-L501/E1/E201 \$26361-F4044-L502/E2/E202 *14	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	PY-FC341/PYBFC341/ PYBFC341L PY-FC342/PYBFC342/	OS bundled	Direct/via switch	Supported 7.x	Supported 7.x	Supported 7.x	Supported 7.x	Yes *3	Supported	
	PYBFC342L S26361-F4043-L501/E1/E201 S26361-F4043-L502/E2/E202 *14	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	PY-FC331/PYBFC331/ PYBFC331L PY-FC332/PYBFC332/ PYBFC332L	OS bundled	Direct/via switch	Supported 7.x	Supported 7.x	Supported 7.x	Supported 7.x	Yes *3	Supported	
	\$26361-F5596-L501/E1/E201 \$26361-F5596-L502/E2/E202 *14	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	PY-FC321/PY-FC322/ S26361-F5580-L501 S26361-F5580-E1 S26361-F5580-E201	OS bundled	Direct/via switch	Supported 7.x	Supported 7.x	Supported 7.x	Supported 7.x	Yes *3	Supported	
Citrix Hypervisor	S26361-F5580-L502 S26361-F5580-E2 S26361-F5580-E202 *14	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
(XenServer)	PY-FC221/PY-FC222/	OS bundled	Direct/via switch	Supported 7.x	Supported 7.x	Supported 7.x	Supported 7.x	Yes *3*9	Supported	
	S26361-F4994-L501/ S26361-F4994-L502	OS bundled + Storage Cluster	via switch *8	Supported 7.x	Supported 7.x	Supported 7.x	Supported 7.x	Yes *3*9	Supported	
	PY-FCD12/	OS bundled		Supported 7.x	Supported 7.x	Supported 7.x	Supported 7.x	Yes *9	Supported	
	PYBFCD121/PYBFCD122 S26361-F4994-E402/ S26361-F4994-L402	OS bundled + Storage Cluster	Switch blade	Supported 7.x	Supported 7.x	Supported 7.x	Supported 7.x	Yes *9	Supported	
	PY-FC311/PY-FC312/ S26361-F5313-L501 S26361-F5313-E1	OS bundled	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	S26361-F5313-E201 S26361-F5313-L502 S26361-F5313-E2 S26361-F5313-E202	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	PY-FC201/PY-FC202 PG-FC203/PG-FC204	OS bundled	Direct/via switch	Supported 7.x	Planned 2	Supported 7.x	Planned 2	Yes	Supported	
	S26361-F3961-L1/ S26361-F3961-L2	OS bundled + Storage Cluster	via switch *8	Supported 7.x	Planned 2	Supported 7.x	Planned 2	Yes	Supported	
	PY-FCD02 PG-FCD202	OS bundled	Switch blade/ Pass-through	Supported 7.x	Planned 2	Supported 7.x	Planned 2	Yes	Supported	
	S26361-F3874-L1	OS bundled + Storage Cluster	blade	Supported 7.x	Planned 2	Supported 7.x	Planned 2	Yes	Supported	
	PY-FC211/PY-FC212 PG-FC205/PG-FC206	OS bundled	Direct/via switch	Supported 7.x	Planned 2	Supported 7.x	Planned 2	Yes	Supported	
	S26361-F3631-L1/ S26361-F3631-L2	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2 236/28	90 Planned 2	Planned 2	Planned 2	Planned 2	Copyright 2023 FUJITSU LIMITE

- \*3 ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.
- \*8 When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.
  \*9 SAN boot is supported on 16Gbps Link Speed only.
  \*12 DX8700 S3 is not supported.

- \*14 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

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					Stora	age			Cluster	
VM	НВА	Path Failover	Connected type	DX S4/S3 series *12 (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16 Gbps port)	DX S4 series (except DX8900 S4) AF series (except AF S3 series) (FC 32Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 32Gbps port)	SAN boot	НА	Instruction for use
	Emulex LPe32000 / LPe32002	OS bundled	Direct/via switch	Supported 7.x	Supported 7.x	Supported 7.x	Supported 7.x	Yes *3	Supported	
	or OEM products *14	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	Emulex LPe31000 / LPe31002	OS bundled	Direct/via switch	Supported 7.x	Supported 7.x	Supported 7.x	Supported 7.x	Yes *3	Supported	
	or OEM products *14	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	QLe2740/QLe2742/QLe2764	OS bundled	Direct/ via switch	Supported 7.x	Supported 7.x	Supported 7.x	Supported 7.x	Yes *3	Supported	
	or OEM products	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	QLogic QLE2690/QLE2692/	OS bundled	Direct/ via switch	Supported 7.x	Supported 7.x	Supported 7.x	Supported 7.x	Yes *3	Supported	
	QLE2694 or OEM Products	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	Emulex	OS bundled	Direct/via switch	Supported 7.x	Supported 7.x	Supported 7.x	Supported 7.x	Yes *3 *9	Supported	
Citrix	LPe16000 / LPe16002 or OEM products	OS bundled + Storage Cluster	via switch *8	Supported 7.x	Supported 7.x	Supported 7.x	Supported 7.x	Yes *3 *9	Supported	
Hypervisor (XenServer)	Emulex	OS bundled	Direct/via switch	Supported 7.x	Planned 2	Supported 7.x	Planned 2	Yes *3	Supported	
	LPe12000/LPe12002/LPe1250 or OEM products	OS bundled + Storage Cluster	via switch *8	Supported 7.x	Planned 2	Supported 7.x	Planned 2	Yes *3	Supported	
	Qlogic QLE2660/QLE2662	OS bundled	Direct/via switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	QLE2670/QLE2672 or OEM products	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	QLogic QLE2560/QLE2562	OS bundled	Direct/via switch	Supported 7.x	Planned 2	Supported 7.x	Planned 2	Yes	Supported	
	or OEM products	OS bundled + Storage Cluster	via switch *8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	Emulex OCe14102	OS bundled	FCoE switch	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	or OEM products	OS bundled + Storage Cluster	*8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	
	Emulex OCe10102	OS bundled	FCoE switch	Supported 7.x	Planned 2	Supported 7.x	Planned 2	Yes *3	Supported	
	or OEM products	OS bundled + Storage Cluster	*8	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	

<sup>\*3</sup> ETERNUS supports SAN boot, but please ask server supplier if the connected server supports SAN boot.

<sup>\*8</sup> When configuring Storage Cluster, QLogic switches and Cisco switches are OK for Storage Cluster even though they cannot be managed by ETERNUS SF StorageCruiser.

\*9 SAN boot is supported on 16Gbps Link Speed only.

\*12 DX8700 S3 is not supported.

\*14 When connecting server and ETERNUS directly with link speed 8Gbps or below, HBA should be set as "Point to Point" connection, ETERNUS should be set as "Fabric" connection.

## VM (iSCSI connection) Edition 183: 2023/12/22

## Notes

- Please contact the server supplier for the server support status of OS, multipath software, HBA and clusterware listed here.
- Please contact the product supplier for operating condition of multipath software and HBA listed here.
- Please contact the clusterware supplier for combination of Server, OS version, multipath software, HBA, and clusterware version.
- Functions supported by clusterware depends on each clusterware supplier. Please contact the clusterware supplier for the extended support functions such as geo cluster...
- Please use the latest version of HBA firmware and driver unless note is stated.
- Please use the latest version of server BIOS unless note is stated.
- Direct connection with NIC/CNA of which speed is 25Gbps or more is not supported.
- VMware's VSAN is not supported.
- VMware VNX is not supported via iSCSI connection.
- On Oracle VM and Citrix Hypervisor (XenServer) environment, UNMAP function is not supported on Deduplication/Compression volume.
- Trademark symbols have been omitted from this document.
- HBA for PRIMEQUEST is shown as MC-0JCEn\*, the character "\*" can be any character applicable. Ex) MC-0JCE6\* means MC-0JCE61 and MC-0JCE62 are applicable.
- Storage Cluster function is not supported on DX60 S5/S4/S3.
- Please refer to "VMware VVOL" part for VMware VVOL support status.
- VMware Multi-Pathing plug-in for ETERNUS is referred to as "VAMP" in this document.

https://www.fujitsu.com/global/support/products/computing/storage/download/vmware-mp-plug-in.html

For supported vSphere editions, refer to the operating environment or software documentation on the VAMP public page.

	iSCSI				Stor	age		Cluster	
VM	Initiator type	NIC or HBA	Path Failover	Connected type	DX S4/S3 series AF/ AF S2 series DX200F	DX S5 series AF S3 series	iSCSI boot	HA/FT *1	Instruction for use
			VAMP *10		Planned 2	Planned 2	No	Planned 2	
			VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch *5	Planned 2	Planned 2	No	Planned 2	
		NIC for PRIMEQUEST 3000	VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)		N.A.	N.A.	N.A.	N.A.	
		*2	OS bundled		Supported U1	Supported U1	No	Supported	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch *5	Supported U1	Supported U1	No	Supported	*7 *9
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)		N.A.	N.A.	N.A.	N.A.	
VMware ESXi 8.0	Software Initiator		VAMP *10		Planned 2	Planned 2	No	Planned 2	
			VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch *5	Planned 2	Planned 2	No	Planned 2	
		NIC and CNA for PRIMERGY	VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)		N.A.	N.A.	N.A.	N.A.	
		*2	OS bundled		Supported GA/U1/U2	Supported GA/U1/U2	No	Supported	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch *5	Supported GA/U1/U2	Supported GA/U1/U2	No	Supported	*7 *9
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)		N.A.	N.A.	N.A.	N.A.	

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.

<sup>\*2</sup> Please contact server supplier about available NIC and CNA.

<sup>\*5</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*7</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

<sup>\*9 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

<sup>\*10</sup> DX8900 S4 is not supported

<sup>\*17</sup> When taking LUN's backup, if physical block size/sector format of copy source and that of copy target are different, then resignature of datastore may result in error (Invalid datastore format) when mounting VMFS. Also when a drive failed and a hot spare drive which has different physical block size/sector format of the failed drive becomes a RAID member, the above error may occur. Please refer to the following KB.

	iSCSI				Sto	rage		Cluster	
VM	Initiator type	NIC or HBA	Path Failover	Connected type	DX S4/S3 series AF/ AF S2 series DX200F	DX S5 series AF S3 series	iSCSI boot	HA/FT *1	Instruction for use
			VAMP *10		Planned 2	Planned 2	No	Planned 2	
			VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch *5	Planned 2	Planned 2	No	Planned 2	
VMware	Software	NIC / CNA *3	VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)		Planned 2	Planned 2	No	Planned 2	
ESXi 8.0	Initiator	NIC / CIVA 3	OS bundled		Supported GA/U1/U2	Supported GA/U1/U2	No	Supported	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch *5	Supported GA/U1/U2	Supported GA/U1/U2	No	Supported	*7 *9
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)		Planned 2	Planned 2	No	Planned 2	

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.

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	iSCSI					rage		Cluster	
VM	Initiator type	NIC or HBA	Path Failover	Connected type	DX S4/S3 series AF/ AF S2 series DX200F	DX S5 series AF S3 series	iSCSI boot	HA/FT *1	Instruction for use
		NIC for PRIMEQUEST 3000*2	OS bundled	via switch	Supported U1	Supported U1	No	Supported	
		TWO ISLA TRIMEGOEST 3000 2	OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported U1	Supported U1	No	Supported	*7 *9
			VAMP *10		Planned 2	Planned 2	No	Supported	
VMware	Software		VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch *5	Planned 2	Planned 2	No	Planned 2	
ESXi 7.0	Initiator	NIC and CNA for PRIMERGY	VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)		Planned 2	Planned 2	No	Planned 2	
		*2	OS bundled		Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	No	Supported	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch *5	Supported U3	Supported U3	No	Supported	*7 *9
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)		Supported U3	Supported U3	No	Supported	

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.

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<sup>\*3</sup> Supported only for NICs that are certified by VMware

<sup>\*5</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*7</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

<sup>\*9 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

<sup>\*10</sup> DX8900 S4 is not supported

<sup>\*17</sup> When taking LUN's backup, if physical block size/sector format of copy source and that of copy target are different, then resignature of datastore may result in error (Invalid datastore format) when mounting VMFS. Also when a drive failed and a hot spare drive which has different physical block size/sector format of the failed drive becomes a RAID member, the above error may occur. Please refer to the following KB.

<sup>\*2</sup> Please contact server supplier about available NIC and CNA.

<sup>\*5</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*7</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

<sup>\*9 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

<sup>\*10</sup> DX8900 S4 is not supported

<sup>\*17</sup> When taking LUN's backup, if physical block size/sector format of copy source and that of copy target are different, then resignature of datastore may result in error (Invalid datastore format) when mounting VMFS. Also when a drive failed and a hot spare drive which has different physical block size/sector format of the failed drive becomes a RAID member, the above error may occur. Please refer to the following KB.

	iSCSI				Stor	age		Cluster	
VM	Initiator type	NIC or HBA	Path Failover	Connected type	DX S4/S3 series AF/ AF S2 series DX200F	DX S5 series AF S3 series	iSCSI boot	HA/FT *1	Instruction for use
			VAMP *10		Planned 2	Planned 2	No	Planned 2	
			VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch *5	Planned 2	Planned 2	No	Planned 2	
VMware	Software	NIC / CNA *3	VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)		Planned 2	Planned 2	No	Planned 2	
ESXi 7.0	Initiator	NIC/CNA 3	OS bundled		Supported GA/U1/U2/U3	Supported GA/U1/U2/U3	No	Supported	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch *5	Supported U3	Supported U3	No	Supported	*7 *9
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)		Supported U3	Supported U3	No	Supported	

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.

<sup>\*3</sup> Supported only for NICs that are certified by VMware

<sup>\*5</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*7</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

<sup>\*9 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

<sup>\*10</sup> DX8900 S4 is not supported

<sup>\*17</sup> When taking LUN's backup, if physical block size/sector format of copy source and that of copy target are different, then resignature of datastore may result in error (Invalid datastore format) when mounting VMFS. Also when a drive failed and a hot spare drive which has different physical block size/sector format of the failed drive becomes a RAID member, the above error may occur. Please refer to the following KB.

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	iSCSI				Sto	rage		Cluster	
VM	Initiator type	NIC or HBA	Path Failover	Connected type	DX S4/S3 series AF/ AF S2 series DX200F	DX S5 series AF S3 series	iSCSI boot	HA/FT *1	Instruction for use
		NIC for PRIMEQUEST 3000	OS bundled	via switch	N.A.	N.A.	N.A.	N.A.	
		NIC for PRIMEQUEST 2000	OS bundled + Storage Cluster	via switch	N.A.	N.A.	N.A.	N.A.	
			VAMP *10		Supported GA *10 *17/U1 to U3	Supported GA *10 *17/U1 to U3	No	Supported	
	Software		VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch *5	Planned 2	Planned 2	No	Planned 2	
	Initiator	NIC and CNA for PRIMERGY	VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)		Planned 2	Planned 2	No	Planned 2	
VMware ESXi 6.7 *12		*2	OS bundled		Supported GA *10 *17/U1 to U3	Supported GA *10 *17/U1 to U3	No	Supported	
12			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch *5	Supported GA *10 *17/U2	Supported GA *10 *17/U2	No	Supported	*7 *9
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)		Planned 2	Planned 2	No	Planned 2	
		PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U	OS bundled		Supported GA *10 *17/U1/U3	Supported GA *10 *17/U1/U3	No	Supported	
	Hardware Initiator	S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201	OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch *5	Planned 2	Planned 2	No	Planned 2	
		S26361-F5302-L211 S26361-F5302-E211	OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)		Planned 2	Planned 2	No	Planned 2	

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.

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<sup>\*2</sup> Please contact server supplier about available NIC and CNA.

<sup>\*5</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*7</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

<sup>\*9 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

<sup>\*10</sup> DX8900 S4 is not supported

<sup>\*12</sup> ESXi6.7GA / U1 supports the automatic UNMAP function for VMFS datastore thin provisioned volumes only for deduplication / compression volumes.

<sup>\*17</sup> When taking LUN's backup, if physical block size/sector format of copy source and that of copy target are different, then resignature of datastore may result in error (Invalid datastore format) when mounting VMFS.

Also when a drive failed and a hot spare drive which has different physical block size/sector format of the failed drive becomes a RAID member, the above error may occur. Please refer to the following KB.

	iSCSI				Sto	rage		Cluster	
VM	Initiator type	NIC or HBA	Path Failover	Connected type	DX S4/S3 series AF/ AF S2 series DX200F	DX S5 series AF S3 series	iSCSI boot	HA/FT *1	Instruction for use
			VAMP *10		Supported GA *10 *17/U1 to U3	Supported GA *10 *17/U1 to U3	No	Supported	
			VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch *5	Planned 2	Planned 2	No	Planned 2	2
	Software	NIC / CNA *3	VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)		Planned 2	Planned 2	No	Planned 2	
	Initiator	NIC / CNA 3	OS bundled		Supported GA *10 *17/U1 to U3	Supported GA *10 *17/U1 to U3	No	Supported	
VMware ESXi 6.7 *12			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch *5	Supported GA *10 *17/U2	Supported GA *10 *17/U2	No	Supported	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)		Planned 2	Planned 2	No	Planned 2	
			OS bundled		Supported GA *10 *17/U1/U3	Supported GA *10 *17/U1/U3	Yes	Supported	
	Hardware Initiator	Emulex OCe14102	OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch *5	Planned 2	Planned 2		Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	1	Planned 2	Planned 2		Planned 2	

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.

https://kb.vmware.com/s/article/68135

<sup>\*3</sup> Supported only for NICs that are certified by VMware

<sup>\*5</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*7</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

<sup>\*9 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

<sup>\*10</sup> DX8900 S4 is not supported

<sup>\*12</sup> ESXi6.7GA / U1 supports the automatic UNMAP function for VMFS datastore thin provisioned volumes only for deduplication / compression volumes.

<sup>\*17</sup> When taking LUN's backup, if physical block size/sector format of copy source and that of copy target are different, then resignature of datastore may result in error (Invalid datastore format) when mounting VMFS. Also when a drive failed and a hot spare drive which has different physical block size/sector format of the failed drive becomes a RAID member, the above error may occur. Please refer to the following KB.

	:0001				Sto	rage		Cluster	1
VM	iSCSI Initiator type	NIC or HBA	Path Failover	Connected type	DX S4/S3 series AF/ AF S2 series DX200F	DX S5 series AF S3 series	iSCSI boot	HA/FT *1	Instruction for use
			VAMP *10		Supported GA to U3	Supported GA to U3	No	Supported	
			VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch *5	Planned 2	Planned 2	No	Planned 2	
		NIC and CNA for PRIMERGY	VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)		Planned 2	Planned 2	No	Planned 2	
	Software Initiator	*2	OS bundled	via switch *5	Supported GA to U3	Supported GA to U3	No	Supported	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical) *6		Supported GA	Supported GA	No	Supported	*7 *9
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)		Planned 2	Planned 2	No	Planned 2	
VMware		NIC for PRIMEQUEST 3000 NIC for PRIMEQUEST 2000	OS bundled	— via switch	N.A.	N.A.	N.A.	N.A.	
ESXi 6.5 *12			OS bundled + Storage Cluster		N.A.	N.A.	N.A.	N.A.	
		PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U	OS bundled		Supported GA/U2 Planned 2 U1	Supported GA/U2 Planned 2 U1	No	Supported	
		S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201	OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch *5	Planned 2	Planned 2	No	Planned 2	
	Hardware	S26361-F5302-L211 S26361-F5302-E211	OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)		Planned 2	Planned 2	No	Planned 2	
	Initiator	PY-CND02 S26361-F3592-L532 BX92xS3 Onboard CNA	OS bundled	Switch blade *5	Supported GA	Supported GA	No	Supported	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)		Planned 2	Planned 2	No	Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)		Planned 2	Planned 2	No	Planned 2	

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.

<sup>\*2</sup> Please contact server supplier about available NIC and CNA.

<sup>\*5</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*6</sup> Please make subnets of iSCSI initiator port IP address and iSCSI target port IP address different.

<sup>\*7</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

<sup>\*9 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

<sup>\*10</sup> DX8900 S4 is not supported

<sup>\*12</sup> ESXi6.7GA / U1 supports the automatic UNMAP function for VMFS datastore thin provisioned volumes only for deduplication / compression volumes.

	1000			<b>I</b>	Stor	rage		Cluster	-
VM	iSCSI Initiator type	NIC or HBA	Path Failover	Connected type	DX S4/S3 series AF/ AF S2 series DX200F	DX S5 series AF S3 series	iSCSI boot	HA/FT *1	Instruction for use
			VAMP *10		Supported GA to U3	Supported GA to U3	No	Supported	
			VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch *5	Planned 2	Planned 2	No	Planned 2	
	Software	NIC / CNA *3	VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)		Planned 2	Planned 2	No	Planned 2	
	Initiator	NIC/CNA 3	OS bundled	via switch *5	Supported GA to U3	Supported GA to U3	No	Supported	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical) *6	via switch	Supported GA	Supported GA	No	Supported	*7 *9
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	Planned 2	No	Planned 2	
		Emulex OCe14401B	OS bundled	via switch *5	Supported GA/U2 Planned 2 U1	Supported GA/U2 Planned 2 U1	No	Supported	
VMware ESXi 6.5 *12			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	Planned 2	No	Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	Planned 2	No	Planned 2	
		Emulex OCe14102	OS bundled	via switch *5	Supported GA/U2 Planned 2 U1	Supported GA/U2 Planned 2 U1	Yes U2 only	Supported	
	Hardware Initiator		OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	Planned 2		Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	Planned 2		Planned 2	
			OS bundled	via switch *5	Supported GA	Supported GA	No	Supported	
		Emulex OCe11102	OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	Planned 2	No	Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	Planned 2	No	Planned 2	

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.
\*3 Supported only for NICs that are certified by VMware

<sup>\*5</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*6</sup> Please make subnets of iSCSI initiator port IP address and iSCSI target port IP address different.

<sup>\*7</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

<sup>\*9 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

<sup>\*10</sup> DX8900 S4 is not supported

<sup>\*12</sup> Automatic UNMAP function to Thin Provisioning volume on VMFS Datastore is supported on Deduplication/Compression volume only.

					Storage		Cluster	
VM	iSCSI Initiator type	NIC or HBA	Path Failover	Connected type	DX S4/S3 series AF series, DX200F (except DX8900 S4, AF S3 series)	iSCSI boot	HA/FT *1	Instruction for use
			VAMP		Supported GA/U1/U2	No	Supported	
			VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)		Planned 2		Planned 2	
		NIC and CNA for PRIMERGY	VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)		Planned 2		Planned 2	
		*2	OS bundled	via switch *5	Supported GA/U1/U2/U3	No	Supported	
	Software		OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)		Planned 2		Planned 2	
	Initiator		OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)		Planned 2		Planned 2	
			VAMP	via switch *5	Supported GA/U1/U2	No	Supported	
		NIC for PRIMEQUEST 2000 *2	VAMP + Storage Cluster		N.A.	N.A.	N.A.	
			OS bundled	VIA SWITCH 5	Supported GA/U1/U2	No	Supported	
			OS bundled + Storage Cluster		N.A.	N.A.	N.A.	
VMware		PY-CN302/ PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501 S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211	VAMP	via switch *5	Supported GA/U1/U2	Yes *4	Supported	
ESXi 6.0			VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2		Planned 2	
			VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2		Planned 2	
			OS bundled	via switch *5	Supported GA/U1/U2	Yes *4	Supported	
		S26361-F5302-E211	OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported GA/U1/U2	Yes *4	Supported	*7, *9
	Hardware		OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Supported GA/U1/U2	Yes *4	Supported	*7, *9
	Initiator		VAMP	Switch blade *5	Supported GA/U1/U2	Yes *4	Supported	
			VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch blade	Planned 2		Planned 2	
		PY-CND02 S26361-F3592-L532	VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch blade	Planned 2		Planned 2	
		BX92xS3 Onboard CNA	OS bundled	Switch blade *5	Supported GA/U1/U2	Yes *4	Supported	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch blade	Planned 2		Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch blade	Planned 2		Planned 2	

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.

<sup>\*2</sup> Please contact server supplier about available NIC and CNA.

<sup>\*4</sup> ETERNUS supports iSCSI boot, but please ask server supplier if the connected server supports iSCSI boot.

<sup>\*5</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*7</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

<sup>\*9 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

					Storage		Cluster	
VM	iSCSI Initiator type	NIC or HBA	Path Failover	Connected type	DX S4/S3 series AF series, DX200F (except DX8900 S4, AF S3 series)	iSCSI boot	HA/FT *1	Instruction for use
			VAMP	via switch *5	Supported GA/U1/U2	No	Supported	
			VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2		Planned 2	
	Software	NIC / CNA *3	VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2		Planned 2	
	Initiator	NIC / CIVA 3	OS bundled	via switch *5	Supported GA/U1/U2/U3	No	Supported	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2		Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2		Planned 2	
			VAMP	via switch *5	Supported GA/U1/U2	Yes *4	Supported	
			VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2		Planned 2	
		Emulex	VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2		Planned 2	
		OCe14401B	OS bundled	via switch *5	Supported GA/U1/U2	Yes *4	Supported	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2		Planned 2	
VMware			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2		Planned 2	
ESXi 6.0		Emulex OCe14102	VAMP	via switch *5	Supported GA/U1/U2	Yes *4	Supported	
			VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2		Planned 2	
	Hardware		VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2		Planned 2	
	Initiator		OS bundled	via switch *5	Supported GA/U1/U2	Yes *4	Supported	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported GA/U1/U2	Yes *4	Supported	*7, *9
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Supported GA/U1/U2	Yes *4	Supported	
			VAMP	via switch *5	Supported GA/U1/U2	Yes *4	Supported	
		Emulex	VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2		Planned 2	
			VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2		Planned 2	
		OCe11102	OS bundled	via switch *5	Supported GA/U1/U2	Yes *4	Supported	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2		Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2		Planned 2	

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.
\*3 Supported only for NICs that are certified by VMware
\*4 ETERNUS supports iSCSI boot, but please ask server supplier if the connected server supports iSCSI boot.

<sup>\*5</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

\*7 At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

<sup>\*9 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

					Storage		Cluster	
VM	iSCSI Initiator type	NIC or HBA	Path Failover	Connected type	DX S4/S3 series AF series, DX200F (except DX8900 S4, AF S3 series)	iSCSI boot	HA/FT *1	Instruction for use
			VAMP	via switch *5	Supported GA to U3	No	Supported	
			VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported GA to U3	No	Planned 2	*7, *8, *9
		NIC and CNA for PRIMERGY	VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	
		*2	OS bundled	via switch *5	Supported GA to U3	No	Supported	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	
		NIC for PRIMEQUEST 2000 *2	VAMP	via switch *5	Supported GA/U1/U2	No	Supported	
	Software Initiator		VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	
VMware			VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	
ESXi 5.5			OS bundled	via switch *5	Supported GA/U1/U2	No	Supported	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	
			VAMP	via switch *5	Supported GA/U1/U2	No	Supported	
			VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	
		NIC for PRIMEQUEST 1000 *2	VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	
		NIC IOI FRIMEQUEST 1000 "Z	OS bundled	via switch *5	Supported GA/U1/U2	No	Supported	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	

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<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.
\*2 Please contact server supplier about available NIC and CNA.

<sup>\*5</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*7</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.
\*8 Manually update of ARP information may be necessary when storage Failover/Failback occurs. Please refer to the following KB for detail information. https://kb.vmware.com/kb/2097972

<sup>\*9 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

					Storage		Cluster	
VM	iSCSI Initiator type	NIC or HBA	Path Failover	Connected type	DX S4/S3 series AF series, DX200F (except DX8900 S4, AF S3 series)	iSCSI boot	HA/FT *1	Instruction for use
			VAMP	via switch *5	Supported U2	No	Supported	
			VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	
		MC-0JCE6*	VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	
		OS bundled via switch *5 Planned 1 U2  OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)  Via switch *5 Planned 1 U2  Planned 2	No	Planned 1				
				via switch	Planned 2	No	Planned 2	
VMware	Hardware		OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	Instruction for use
ESXi 5.5	Initiator		VAMP via switch *5 Supported U2/U3	Yes *4	Supported			
		PY-CN302/	VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2		Planned 2	
		PYBCN302/PYBCN302L PY-CN302U/PYBCN302U S26361-F5250-L501	VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2		Planned 2	
		S26361-F5250-E1 S26361-F5250-E201 S26361-F5302-L211	OS bundled	via switch *5	Supported U2/U3	Yes *4	Supported	
		S26361-F5302-E211	OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2		Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2		Planned 2	

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.
\*4 ETERNUS supports iSCSI boot, but please ask server supplier if the connected server supports iSCSI boot.
\*5 When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

					Storage		Cluster				
VM	iSCSI Initiator type	NIC or HBA	Path Failover	Connected type	DX S4/S3 series AF series, DX200F (except DX8900 S4, AF S3 series)	10F boot HA/FT *1 Instruction for use					
			VAMP	via switch *5	Supported GA to U3	Yes *4	Supported				
			VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2		Planned 2				
		PY-CN202 PG-292B	VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2		Planned 2				
		PG-CND201 S26361-F3592-L2	OS bundled	via switch *5	Supported GA to U3	Yes *4	Supported				
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2		Planned 2				
	Hardware		OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2		Planned 2	2 d 2			
	Initiator	PY-CND02 S26361-F3592-L532 BX92xS3 Onboard CNA	VAMP	Switch blade *5	Supported GA to U3	Yes *4	Supported				
			VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch blade	Planned 2		Planned 2				
VMware			VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch blade	Planned 2		Planned 2				
ESXi 5.5			OS bundled		Supported GA to U3	Yes *4	Supported				
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch blade	Supported GA	Yes *4	Supported	*9			
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch blade	Planned 2		Planned 2				
			VAMP	via switch *5	Supported GA to U3	No	Supported				
			VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported GA to U3	No	Planned 2	*7, *8, *9			
	Software	NIC / CNA *2	VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2				
	Initiator	NIC / CNA *3	OS bundled	via switch *5	Supported GA to U3	No	Supported				
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2				
						OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.
\*3 Supported only for NICs that are certified by VMware
\*4 ETERNUS supports iSCSI boot, but please ask server supplier if the connected server supports iSCSI boot.

<sup>\*5</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*7</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.
\*8 Manually update of ARP information may be necessary when storage Failover/Failback occurs. Please refer to the following KB for detail information. https://kb.vmware.com/kb/2097972

<sup>\*9 &</sup>quot;Storage Cluster" RDM is supported. However, RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

					Storage		Cluster	
VM	iSCSI Initiator type	NIC or HBA	Path Failover	Connected type	DX S4/S3 series AF series, DX200F (except DX8900 S4, AF S3 series)	iSCSI boot	HA/FT *1	Instruction for use
			VAMP	via switch *5	Supported U2/U3	Yes *4	Supported	
			VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2		Planned 2	
		Emulex	VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2		Planned 2	
		OCe14401B	OS bundled	via switch *5	Supported U2/U3	Yes *4	Supported	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2		Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2		Planned 2	
			VAMP	via switch *5	Supported U2/U3	Yes *4	Supported	
			VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2		Planned 2	
		Emulex OCe14102	VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2		Planned 2	
			OS bundled	via switch *5	Supported U2/U3	Yes *4	Supported	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2		Planned 2	
VMware	Hardware		OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2		Planned 2	
ESXi 5.5	Initiator	Emulex OCe10102	VAMP	via switch *5	Supported GA to U3	Yes *4	Supported	
			VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2		Planned 2	
			VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2		Planned 2	
			OS bundled	via switch *5	Supported GA to U3	Yes *4	Supported	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2		Planned 2	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2		Planned 2	
			VAMP	via switch *5	Supported GA to U3	Yes *4	Supported	
		Emulex	VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2		Planned 2	
			VAMP + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2		Planned 2	
		OCe11102	OS bundled	via switch *5	Supported GA to U3	Yes *4	Supported	
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported GA	Yes *4	Supported	*9
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2		Planned 2	

<sup>\*1</sup> vSphere Metro Storage Cluster (vMSC) is not supported.
\*4 ETERNUS supports iSCSI boot, but please ask server supplier if the connected server supports iSCSI boot.
\*5 When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

\*9 "Storage Cluster" RDM is supported.However,RAW access from Guest OS (to issue I/O directly to disk without using file system) is not supported.

	iSCSI				Storage		Cluster	
VM	VM Initiator type		Path Failover	Connected type	DX S5/S4/S3 series AF series DX200F	iSCSI boot	HA 3.2.x/3.2.x/3.4.x	Instruction for use
			OS bundled	Direct / via switch *5	Supported 3.2.x/3.3.x/3.4.x	No	Supported	
	Software NIC and CNA for PRIMERGY *2		OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported 3.3.4	No	Planned 2	*7
Oracle VM 3			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	
Oracle VIVI 3			OS bundled	Direct / via switch *5	Supported 3.2.x/3.3.x/3.4.x	No	Supported	
	Software Initiator	Intel NIC / CNA	OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Supported 3.3.4	No	Planned 2	*7
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	

<sup>\*2</sup> Please contact server supplier about available NIC and CNA.

<sup>\*7</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

	iSCSI				Storage		Cluster	
VM	Initiator type	NIC or HBA	Path Failover	Connected type	DX S5/S4/S3 series AF series DX200F	iSCSI boot	НА	Instruction for use
			OS bundled	Direct / via switch *5	Supported *13 8.x	No	Planned 2	
	Software NIC and CNA for PRIMERGY *2		OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	*7
Citrix Hypervisor			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	
(XenServer)			OS bundled	Direct / via switch *5	Supported *13 8.x	No	Planned 2	
	Software Initiator	Intel NIC / CNA	OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	*7
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	

<sup>\*2</sup> Please contact server supplier about available NIC and CNA.

<sup>\*5</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*5</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*7</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O.

<sup>\*13</sup> DX8700S3, DX8900 S3 are not supported.

	iSCSI				Storage		Cluster	
VM	Initiator type	NIC or HBA	Path Failover	Connected type	DX S5/S4/S3 series AF series DX200F	iSCSI boot	НА	Instruction for use
			OS bundled	Direct / via switch *5	Supported *13 7.x	No	Planned 2	
	Software NIC and CNA for PRIMERGY *2		OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	*7
Citrix Hypervisor			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	
(XenServer)			OS bundled	Direct / via switch *5	Supported *13 7.x	No	Planned 2	
	Software Initiator	Intel NIC / CNA	OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are identical)	via switch	Planned 2	No	Planned 2	*7
			OS bundled + Storage Cluster (A pair CA ports' addresses of Cluster ETERNUS are different)	via switch	Planned 2	No	Planned 2	

<sup>\*2</sup> Please contact server supplier about available NIC and CNA.

<sup>\*5</sup> When using Catalyst switch connecting with 10GBASE-T interface of DX60 S3, Catalyst firmware 12.2(54)SG1 must be used.

<sup>\*7</sup> At storage Failover/Failback time, I/O may fail. When I/O failure happens, check multipath status and rerun I/O. \*13 DX8700S3, DX8900 S3 are not supported.

### VM (SAS connection) Edition 183: 2023/12/22

#### Notes

- Please contact the server supplier for the server support status of OS, multipath software, HBA and clusterware listed here.
- Please contact the product supplier for operating condition of multipath software and HBA listed here.
- Please contact the clusterware supplier for combination of Server, OS version, multipath software, HBA, and clusterware version.
- Functions supported by clusterware depends on each clusterware supplier. Please contact the clusterware supplier for the extended support functions such as geo cluster..
- Please use the latest version of HBA firmware and driver unless note is stated.
- Please use the latest version of server BIOS unless note is stated.
- Please contact the server supplier for connection availability of HBA and FC switch.
- VMware's VSAN is not supported.
- On Citrix Hypervisor (XenServer) environment, UNMAP function is not supported on Deduplication/Compression volume.
- Trademark symbols have been omitted from this document.

				Sto	orage		Cluster	
VM	НВА	Path Failover	Connected type	DX60 S4/S3 DX100 S3 DX200 S3 (SAS 6Gbps port)	DX60 S5/S4 DX100 S5/S4 DX200 S5/S4 (SAS 12Gbps port)	SAS boot	HA/FT *2	Instruction for use
	PY-SC4FAE/ PYBSC4FAE/PYBSC4FAEL	OS bundled	Direct	Planned 2	Supported GA/U1/U2	No	Supported	
	PY-SC3FBF/ PYBSC3FBF/PYBSC3FBFL S26361-F5793-E251	OS bundled	Direct	Planned 2	Supported GA/U1/U2	No	Supported	
VMware ESXi 8.0	PY-SC3FBE/ PYBSC3FBE/PYBSC3FBEL	OS bundled	Direct	Planned 2	Supported GA/U1/U2	No	Supported	
	LSI SAS9500-16e	OS bundled	Direct	Planned 2	Supported GA/U1/U2	Yes *1	Supported	
	LSI SAS9400-8e	OS bundled	Direct	Planned 2	Supported GA/U1/U2	Yes *1	Supported	

<sup>\*1</sup> ETERNUS supports SAS boot, but please ask server supplier if the connected server supports SAS boot.

<sup>\*2</sup> vSphere Metro Storage Cluster (vMSC) is not supported.

				Sto	orage		Cluster	
VM	НВА	Path Failover	Connected type	DX60 S4/S3 DX100 S3 DX200 S3 (SAS 6Gbps port)	DX60 S5/S4 DX100 S5/S4 DX200 S5/S4 (SAS 12Gbps port)	SAS boot	HA/FT *2	Instruction for use
	PY-SC4FAE/ PYBSC4FAE/PYBSC4FAEL	OS bundled	Direct	Planned 2	Supported U3	No	Supported	
	PY-SC3FBF/ PYBSC3FBF/PYBSC3FBFL S26361-F5793-E251	OS bundled	Direct	Planned 2	Supported GA/U1/U2/U3	No	Supported	
	PY-SC3FBE/ PYBSC3FBE/PYBSC3FBEL	OS bundled	Direct	Planned 2	Supported GA/U1/U2/U3	No	Supported	
VMware ESXi 7.0	PY-SC3FE/PYBSC3FEL S26361-F3845-L501/ S26361-F3845-E1/ S26361-F3845-E201	OS bundled	Direct	Planned 2	Supported GA/U1/U2/U3	No	Supported	
	LSI SAS9500-16e	OS bundled	Direct	Planned 2	Supported U3	Yes *1	Supported	
	LSI SAS9400-8e	OS bundled	Direct	Planned 2	Supported GA/U1/U2/U3	Yes *1	Supported	
	LSI SAS9300-8e	OS bundled	Direct	Planned 2	Supported GA/U1/U2/U3	Yes *1	Supported	
VMware ESXi 6.7 *3	PY-SC3FE/PYBSC3FE/PYBSC3FEL S26361-F3845-L501/ S26361-F3845-E1/ S26361-F3845-E201	OS bundled	Direct	Supported GA *5	Supported GA *5/U1 to U3	No	Supported	
3	LSI SAS9300-8e	OS bundled	Direct	Supported GA *5	Supported GA *5/U1 to U3	Yes *1	Supported	

	PY-SC3FE/PYBSC3FE/PYBSC3FEL S26361-F3845-L501/ S26361-F3845-E1/ S26361-F3845-E201	OS bundled	Direct	Supported GA/U1	Supported GA/U1 to U3	No	Supported
VMware	PY-SCD08/PYBSCD082 S26361-F4480-L1/ S26361-F4480-E1	OS bundled	Switch blade/ Pass-through blade	Planned 2	Planned 2	No	Planned 2
ESXi 6.5 *3	LSI SAS9300-8e	OS bundled	Direct	Supported GA/U1	Supported GA/U1 to U3	Yes *1	Supported
	LSI SAS9200-8e	OS bundled	Direct	Supported GA Planned 2 U1	Supported GA Planned 2 U1	Yes *1	Supported
	LSI SAS3442E-R	OS bundled	Direct	Supported GA Planned 2 U1	-	Yes *1	Supported

<sup>\*1</sup> ETERNUS supports SAS boot, but please ask server supplier if the connected server supports SAS boot.

https://kb.vmware.com/s/article/68135

<sup>\*2</sup> vSphere Metro Storage Cluster (vMSC) is not supported.

<sup>\*3</sup> ESXi6.7GA / U1,ESXi6.5GA / U1 / U2 supports the automatic UNMAP function for VMFS datastore thin provisioned volumes only for deduplication / compression volumes.

<sup>\*5</sup> When taking LUN's backup, if physical block size/sector format of copy source and that of copy target are different, then resignature of datastore may result in error (Invalid datastore format) when mounting VMFS. Also when a drive failed and a hot spare drive which has different physical block size/sector format of the failed drive becomes a RAID member, the above error may occur. Please refer to the following KB.

				Sto	orage		Cluster	
VM	НВА	Path Failover	Connected type	DX60 S4/S3 DX100 S3 DX200 S3 (SAS 6Gbps port)	DX60 S4 DX100 S4 DX200 S4 (SAS 12Gbps port)	SAS boot	HA/FT *2	Instruction for use
	PY-SC3FE/PYBSC3FE/PYBSC3FEL S26361-F3845-L501/ S26361-F3845-E1/ S26361-F3845-E201	OS bundled	Direct	Supported GA/U1/U2	Supported GA/U1/U2	No	Supported	
	PY-SC2Z0/PYBSC2Z0 S26361-F3628-L501/ S26361-F3628-E1	OS bundled	Direct	Supported GA/U1/U2	Supported GA/U1/U2	No	Supported	
	PY-SCD08/PYBSCD082 S26361-F4480-L1/ S26361-F4480-E1	OS bundled	Switch blade/ Pass-through blade	Supported GA/U1/U2	Supported GA/U1/U2	No	Supported	
VMware ESXi 6.0	PY-SC1Y0/PY-SC1Y0L/ PYBSC1Y0/PYBSC1Y0L S26361-F3271-L1/L201/E1/E201	OS bundled	Direct	Supported GA/U1/U2	-	No	Supported	
	LSI SAS9300-8e	OS bundled	Direct	Supported GA/U1/U2	Supported GA/U1/U2	Yes *1	Supported	
	LSI SAS9200-8e	OS bundled	Direct	Supported GA/U1/U2	Supported GA/U1/U2	Yes *1	Supported	
	LSI SAS3442E-R	OS bundled	Direct	Supported GA/U1/U2	-	Yes *1	Supported	
	PY-SC3FE/PYBSC3FE/PYBSC3FEL S26361-F3845-L501/ S26361-F3845-E1/ S26361-F3845-E201	OS bundled	Direct	Supported U2/U3	Supported U2/U3	No	Supported	
	PY-SC2Z0/PYBSC2Z0 S26361-F3628-L501/ S26361-F3628-E1	OS bundled	Direct	Supported GA to U3	Supported GA to U3	No	Supported	
VMware	PY-SCD08/PYBSCD082 S26361-F4480-L1/ S26361-F4480-E1	OS bundled	Switch blade/ Pass-through blade	Supported GA to U3	Supported GA to U3	No	Supported	
ESXi 5.5	PY-SC1Y0 PG-228B S26361-F3271-L1	OS bundled	Direct	Supported GA to U3	-	No	Supported	
	LSI SAS9300-8e	OS bundled	Direct	Supported U2/U3	Supported U2/U3	Yes *1	Supported	
	LSI SAS9200-8e	OS bundled	Direct	Supported GA to U3	Supported GA to U3	Yes *1	Supported	
	LSI SAS3442E-R	OS bundled	Direct	Supported GA to U3	-	Yes *1	Supported	

259/280

*2 vSphere Metro Storage Cluster (vMSC) is not supported.	

				Sto	rage		Cluster	
VM	НВА	Path Failover	Connected type	DX60 S4/S3 DX100 S3 DX200 S3 (SAS 6Gbps port)	DX60 S5/S4 DX100 S5/S4 DX200 S5/S4 (SAS 12Gbps port)	SAS boot	НА	Instruction for use
	PY-SC3FE/PYBSC3FE/PYBSC3FEL S26361-F3845-L501/ S26361-F3845-E1/ S26361-F3845-E201	OS bundled	Direct	Planned 2	Supported 8.x	No	Planned 2	
Citrix	PY-SC2Z0/PYBSC2Z0 S26361-F3628-L501/ S26361-F3628-E1	OS bundled	Direct	Planned 2	Planned 2	No	Planned 2	
Hypervisor (XenServer)	PY-SCD08/PYBSCD082 S26361-F4480-L1/ S26361-F4480-E1	OS bundled	Switch blade/ Pass-through blade	Planned 2	Planned 2	No	Planned 2	
	LSI SAS9300-8e	OS bundled	Direct	Planned 2	Supported 8.x	No	Planned 2	
	LSI SAS9200-8e	OS bundled	Direct/ via switch *4	Planned 2	Planned 2	No	Planned 2	

<sup>\*4</sup> Only direct connection is supported on DX100 S4 and DX200 S4.

				Sto	orage		Cluster	
VM	НВА	Path Failover	Connected type	DX60 S4/S3 DX100 S3 DX200 S3 (SAS 6Gbps port)	DX60 S5/S4 DX100 S5/S4 DX200 S5/S4 (SAS 12Gbps port)	SAS boot	НА	Instruction for use
	PY-SC3FE/PYBSC3FE/PYBSC3FEL S26361-F3845-L501/ S26361-F3845-E1/ S26361-F3845-E201	OS bundled	Direct	Planned 2	Supported 7.x	No	Planned 2	
Citrix	PY-SC2Z0/PYBSC2Z0 S26361-F3628-L501/ S26361-F3628-E1	OS bundled	Direct	Supported 7.x	Supported 7.x	No	Planned 2	
Hypervisor (XenServer)	PY-SCD08/PYBSCD082 S26361-F4480-L1/ S26361-F4480-E1	OS bundled	Switch blade/ Pass-through blade	Supported 7.x	Supported 7.x	No	Planned 2	
	LSI SAS9300-8e	OS bundled	Direct	Planned 2	Supported 7.x	No	Planned 2	
	LSI SAS9200-8e	OS bundled	Direct/ via switch *4	Supported 7.x	Supported 7.x	No	Planned 2	

<sup>\*4</sup> Only direct connection is supported on DX100 S4 and DX200 S4.

### VMware VVOL Edition 183: 2023/12/22

#### Notes

- VVOL 2.0 with Oracle RAC is not supported on VMware.
- VMware Multi-Pathing plug-in for ETERNUS is referred to as "VAMP" in this document. Supported vSphere edition is "Enterprise" and "Enterprise Plus".
- VVOL is not supported on VMware with StorageCluster configuration.
- When configuring VVOL, appropriate ETERNUS SF Storage Cruiser version and ETERNUS VASA Provider are required.
- VVOL inforamtion is on the following web

https://www.fujitsu.com/global/products/computing/storage/disk/eternus-dx/eternusdx-vvol/

						Sto	rage	
VMware	Update	VVOL	VASA	Path Failover	Interface	DX S4/S3 series AF/AF S2 series	DX S5 series AF S3 series	Instruction for use
	U2			VAMP 1.3.0		Planned 2	Planned 2	
				OS bundled		Supported	Supported	
50//0.0	U1			VAMP 1.3.0		Planned 2	Planned 2	
ESXi8.0	01	2.0	3.0.10	OS bundled	FC/iSCSI	Supported	Supported	
	GA			VAMP 1.3.0		Planned 2	Planned 2	
	GA			OS bundled		Supported	Supported	
	U3			VAMP 1.3.0		Planned 2	Planned 2	
	03			OS bundled		Supported	Supported	
	U2			VAMP 1.3.0	FC/iSCSI	Planned 2	Planned 2	
ESXi7.0	02	2.0	3.0.9	OS bundled		Supported	Supported	ETERNUS SF 16.9 must be patched.
E5XI7.0	U1	2.0		VAMP 1.3.0	FC/ISCSI	Planned 2	Planned 2	
	01			OS bundled		Supported	Supported	
	GA			VAMP 1.3.0		Planned 2	Planned 2	
	GA			OS bundled		Supported	Supported	
	U3			VAMP 1.2.1 or later*2		Supported	Supported	
	30			OS bundled		Supported	Supported	
	112			VAMP 1.2.1 or later*2		Supported	Supported	
E0.7.0 Z	U2 		0.00	OS bundled	F0/2001	Supported	Supported	
ESXi6.7		2.0	3.0.8	VAMP 1.2.1 or later*2	FC/iSCSI	Supported	Supported	
	U I			OS bundled		Supported	Supported	
	GA		VAMP 1.2.1 or later*2	262/280	Supported	Supported	Copyright 2023 FUJITSU LIMITED	

OS bundled Supported Supported

\*2 If to VAMP 1.2.1 configuration environment, There is no need to update to VAMP 1.3.0.

						Stor	age	
VMware	Update	VVOL	VASA	Path Failover	Interface	DX S4/S3 series AF/AF S2 series	DX S5 series AF S3 series	Instruction for use
	U3	113		VAMP 1.2.1 or later*2		Supported	Supported	
	03			OS bundled		Supported	Supported	
	U2		2.1.12/3.0.8	VAMP 1.2.1 or later*2	FC/iSCSI	Supported	Supported	
ESXi6.5	UZ			OS bundled		Supported	Supported	
ESXI0.5	U1	1.0/2.0		VAMP 1.2.1 or later*2		Supported		
	01			OS bundled		Supported	_	
GA	GΔ			VAMP 1.2.1 or later*2		Supported	_	
	GA	GA		OS bundled		Supported	_	

<sup>\*2</sup> If to VAMP 1.2.1 configuration environment, There is no need to update to VAMP 1.3.0.

						Stor	age	
VMware	Update	VVOL	VASA	Path Failover	Interface	DX S4/S3 series AF/AF S2 series	DX S5 series AF S3 series	Instruction for use
	U3			OS bundled		Supported	_	
	110			VAMP1.1.3		Supported	_	
	U2			OS bundled		Supported	_	
ESXi6.0		1.0	2.1.12	VAMP1.1.3	FC/iSCSI	Supported	_	
	U1			OS bundled		Supported	-	
	GA			VAMP1.1.3		Supported	_	
				OS bundled		Supported	_	

# SVC Edition 151: 2019/12/24

#### Notes

- Please ask IBM SVC product supplier about IBM SVC shipment schedule and necessary patches.
- 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 with IBM SVC.

Version	DX S4 series (except DX8900 S4) FC port	DX 200 S3/DX100 S3 DX 600 S3/DX500 S3 DX200F FC port	AF250/AF650 FC port	AF250 S2/ AF650 S2 FC port	DX8700 S3 DX8900 S3 FC port	DX8900 S4 FC port	DX S5 series AF S3 series	Instruction for use
IBM	Supported	Supported	Supported	Supported	Supported	Supported	Supported	The connection of SVC and DX8700 S3/DX8900 S3 is supported under the condition below. For SVC up to 7.5.0.3;  The number of connected ports of ETERNUS per SVC node is up to 8.  The maximum number of LUNs per ETERNUS port is up to 256.  For SVC 7.5.0.4 or later;  The number of connected ports of ETERNUS per SVC node is up to 16.  The maximum number of LUNs per ETERNUS port is up to 4,096.  The connection of SVC and DX8900 S4 is supported under the condition below.  The number of connected ports of ETERNUS per SVC node is up to 16.  The maximum number of LUNs per ETERNUS port is up to 4,096.  The connection of SVC and ETERNUS models other than mentioned above is supported under the condition below.  The number of connected ports of ETERNUS per SVC node is up to 8  The maximum number of LUNs per ETERNUS port is up to 256  Please contact Fujitsu for the SVC configuration exceeds above limitations.
SVC	7.5.0.1 or later	7.1.0.3 or later	7.5.0.1 or later	7.6 or later	7.5.0.1 or later	7.8 or later	8.2 or later	

## UCS Edition 60: 2016/4/21

#### 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 ask Cisco UCS product supplier about any issue with Cisco UCS.

	DX S3 series DX 200 S3/DX100 S3 DX200F FC port	SAN boot	Instruction for use
Cisco UCS (UCS Firmware 2.2.1)	Supported	Yes	<ul> <li>Please use "End Host" mode for UCS Fabric Interconnect.</li> <li>FC switch with NPIV function is required to connect UCS Fabric Interconnect and storage, and please enable NPIV function.</li> <li>Please refer to Cisco UCS HCL web below for other storage connection condition of Cisco UCS.</li> <li><a href="http://www.cisco.com/c/dam/en/us/td/docs/unified computing/ucs/interoperability/matrix/r hcl B rel2-21.pdf">http://www.cisco.com/c/dam/en/us/td/docs/unified computing/ucs/interoperability/matrix/r hcl B rel2-21.pdf</a></li> </ul>

## StorNext Edition 176: 2022/10/14

Notes - Please ask Quantum StorNext product supplier about Quantum StorNext shipment schedule and necessary patches.

- Please ask Quantum StorNext product supplier about condition of OS, Cluster software and others which Quantum StorNext supports.
- Please ask Quantum StorNext product supplier about any issue with Quantum StorNext.

	DX S4/S3 series (except DX8900 S4) AF series/DX200F (except AF S3 series) (FC 8/16/32 Gbps port)	DX S5 series AF S3 series DX8900 S4 (FC 8/16/32 Gbps port)	Instruction for use
Quantum StorNext 5	Supported	Planned 2	
Quantum StorNext 6	Supported	Supported	- StorageCluster configuration is supported.
Quantum StorNext 7	Supported	Supported	- StorageCluster configuration is supported.

## Switch connection Edition 173: 2022/7/19

### Notes

- This table shows connectivity between host interface of ETERNUS storage and each switch products.
- Please ask server supplier about connectivity between host bus adapter and switch.
- Please use the latest version of switch firmware and driver unless note is stated.
- Please apply the latest switch firmware for all the switches which are used for cascade connection for stable operation and connectivity.
- Trademark symbols have been omitted from this document.

	FC switch	DX S5/S4/S3 series AF series/DX200F (FC 8/16 Gbps port)	DX S5/S4 series AF series (FC 32Gbps port)	DX600 S3/DX500 S3 DX200 S3/DX100 S3 FCoE port	DX8700 S3 DX8900 S3 FCoE port	DX60 S4/S3 DX200 S3/DX100 S3 SAS 6Gbit/s port	Instruction for use
	Brocade G730	Supported	Supported	-	-	-	
	Brocade G720/Brocade X7 Directors	Supported	Supported	-	-	-	
	Brocade G630	Supported	Supported	-	-	-	
	Brocade G620 / Brocade X6 Directors	Supported	Supported	-	-	-	
	Brocade G610/Brocade 7810	Supported	Supported	-	-	-	
Fujitsu SN200 Series Brocade Series	Brocade 6505/6510/6520/7840 DCX8510-4 / DCX8510-8	Supported	Supported	-	-	-	
	Brocade 7800/DCX/DCX-4S	Supported	Planned 2	-	-	-	
	Brocade VDX6710/6720/6730/6740/8770	Supported (VDX6730 only)	Planned 2	Supported	Supported	-	
	SN200 Model 140, 600, 630, 660	Supported	Planned 2	-	-	-	
	Brocade 8000 / CEE/FCoE blade (Option of DCX/DCX-4S)	Supported	Planned 2	Supported	Supported	-	
	PY-FCB104/105/106 S26361-K1527-V14/V26/V27	Supported	Supported	-	-	-	
	PY-FCB101/102/103 PG-FCS104 S26361-K1305-V314/V326/V327 PY CB FC Switch 8Gb 18/8 26 (Brocade) PY CB FC SW 8G 18/8 26 Enterpr (Brocade)	Supported	Planned 2	-	-	-	
Fujitsu PRIMERGY	PY-CFB101 S26361-K1533-V100/V300 CFX2000 PRIMERGY converged fabric switch blade (10Gbps 18/8+2) PY-CFX20F/PY-CFX20R converged fabric switch[CFX2000F/CFX2000R]	-	-	Planned 1 *3	Planned 1 *3	-	
switch blade CF switch	PY-CNB101/102 S26361-K1429-V300 VDX2730	Supported	Planned 2	Supported	Supported	-	
	PY-FEB102/PYBFEB1020/PYBFEB1021 S26361-K1440-V310/V110	Supported	Planned 2	Supported	Supported	_	
	PY-FEB101/PYBFEB1010/PYBFEB1011 S26361-K1440-V300/V100	Supported	Planned 2	Supported	Supported	_	
	PG-FCS103	Supported	-	-		-	
	PG-FCS102	Supported	-	-	-	-	
	PY-SAB101/S26361-K1391-V300 PG-SAS101	-	-	-	-	Supported	

	FC switch	DX S5/S4/S3 series AF series/DX200F (FC 8/16 Gbps port)	DX S5/S4 series AF series (FC 32Gbps port)	DX600 S3/DX500 S3 DX200 S3/DX100 S3 FCoE port	DX8700 S3 DX8900 S3 FCoE port	DX60 S4/S3 DX200 S3/DX100 S3 SAS 6Gbit/s port	Instruction for use
	Brocade G730	Supported	Supported	-	-	-	
	Brocade G720/Brocade X7 Directors	Supported	Supported	-	-	-	
	Brocade G630	Supported	Supported	-	-	-	
	Brocade G620 / Brocade X6 Directors	Supported	Supported	-	-	-	
	Brocade G610/Brocade 7810	Supported	Supported	-	-	-	
Brocade Switch	Brocade 6505/6510/6520/7840 DCX8510-4 / DCX8510-8	Supported	Supported	-	-	-	
	Brocade VDX6710/6720/6730/6740/8770	Supported (VDX6730 only)	Planned 2	Supported	Supported	-	
	Brocade 300/5100/5300/48000/ DCX/DCX-4S	Supported	Planned 2	-	-	-	
	Brocade 7800/ FX8-24(Option of DCX/DCX-4S)	Supported	Planned 2		-	-	
	Brocade 8000/ CEE/FCoE blade (Option of DCX/DCX-4S)	Supported	Planned 2	Supported	Supported	-	
Cisco	MDS 9000 Series *5	Supported	Supported	-	-	-	
MDS series Nexus series	Nexus5500 /5600 Nexus5000 series	Supported *4	Planned 2	Supported	Planned 2	-	
QLogic	SANBOX 5800 Series	Supported	Planned 2	-	-	-	
SANBox series	SANBOX 5600 Series	Supported	-	-	-	-	
LSI SAS Switch	LSI SAS6161/6160	-	-	-	-	Supported	

<sup>\*4:</sup> Supported only with QLogic HBA connection.

<sup>\*5:</sup> Connection at 32Gbps speed is not supported.

				Applicable sys	stem		
FC switch	FC switch available for StorageCluster		HP-UX	AIX	Windows	Linux family	VM family
	Brocade G730	Supported	Planned 2	Planned 2	Supported	Supported	Supported
	Brocade G720/Brocade X7 Directors	Supported	Planned 2	Planned 2	Supported	Supported	Supported
	Brocade G630	Supported	Planned 2	Supported	Supported	Supported	Supported *6
	Brocade G620 / Brocade X6 Directors	Supported	Supported	Supported	Supported	Supported	Supported
	Brocade G610/Brocade 7810	Supported	Supported	Supported	Supported	Supported	Supported
Fujitsu SN200 Series	Brocade 6505/6510/6520 DCX8510-4 / DCX8510-8	Supported *1	Supported	Supported	Supported	Supported	Supported
Brocade Series	Brocade 7800/7840/FX8-24 (Option of DCX/DCX-4S)	Supported	Supported	Supported	Supported	Supported	Supported
	Brocade VDX6710/6720/6730/6740/8770	Supported (VDX6730 only)					
	SN200 Model 140, 600, 630, 660	Supported	Supported	Supported	Supported	Supported	Supported
	Brocade 8000 / CEE/FCoE blade (Option of DCX/DCX-4S)	Supported	Supported	Supported	Supported	Supported	Supported
	Brocade G730	Supported	Planned 2	Planned 2	Supported	Supported	Supported
	Brocade G720/Brocade X7 Directors	Supported	Planned 2	Planned 2	Supported	Supported	Supported
	Brocade G630	Supported	Planned 2	Supported	Supported	Supported	Supported *6
	Brocade G620 / Brocade X6 Directors	Supported	Supported	Supported	Supported	Supported	Supported
	Brocade G610/Brocade 7810	Supported	Supported	Supported	Supported	Supported	Supported
Brocade Switch	Brocade 6505/6510/6520/ DCX8510-4/DCX8510-8	Supported *1	Supported	Supported	Supported	Supported	Supported
	Brocade VDX6710/6720/6730/6740/8770	Supported (VDX6730 only)					
	Brocade 300/5100/5300/48000/ DCX/DCX-4S	Supported	Supported	Supported	Supported	Supported	Supported
	Brocade 7800/7840/ FX8-24 (Option of DCX/DCX-4S)	Supported	Supported	Supported	Supported	Supported	Supported
	Brocade 8000/ CEE/FCoE blade (Option of DCX/DCX-4S)	Supported	Supported	Supported	Supported	Supported	Supported
Cisco	MDS 9000 Series *5	Supported	Supported	Supported	Supported	Supported	Supported
MDS series Nexus series	Nexus5500 /5600 Nexus5000 series	Supported *2					
QLogic	SANBOX 5800 Series	Supported	Supported	Supported	Supported	Supported	Supported
SANBox series	SANBOX 5600 Series	Supported	Supported	Supported	Supported	Supported	Supported

<sup>\*1:</sup> The following HBAs are not supported for StorageCluster.
- SP1X7FBA2F/SP1X5FBA2F, 7101683/7101684, 7101689/7101690 ( + 7101685/7101686)
- SE0X7F31F/SE0X7F32F/SE5X7F32G, SG-XPCIE1FC-EM8, SG-XPCIE2FC-EM8, 7105393/SG-XPCIEFCGBE-E8
- LPe16000 / LPe16002 / LPe12000/LPe12002/LPe1250

<sup>\*2:</sup> DX8700 S3, DX8900 S3 are not supported.

- \*5: Connection at 32Gbps speed is not supported.
  \*6 ESXi 6 and Oracle VM 3 are supported. Please contact us for other VMs.

## StorageCluster-Backup Edition 90: 2017/7/31

#### Notes

- Please contact ISV vendor regarding necessary patches by each OS and each ISV.
- Oracle Solaris(TM)Operating System is described as "Solaris OS" here.
- Please refer to the support matrix of tape device as backup destination about operating condition, such as version, configuration, and patch, of products on this chart.
- This chart shows availability of backup of StorageCluster volume to tape device per backup software. StorageCluster Disk -> Tape.
- Please refer to each Backup Software's software guide for consideration of each backup software.
- Trademark symbols have been omitted from this document.

Backup Software	OS	StorageCluster(FC) Disk -> Tape	StorageCluster(iSCSI) Disk -> Tape	Instruction for use
Microsoft System Center Data Protection Manager	Windows Server	Planned 2	Planned 2	
Arcserve Backup	Windows	Supported (r17 or later)	Supported (r17 or later)	
Aloseive Backap	Other supported OSs	Planned 2	Planned 2	
	Solaris	• •	Supported (7.7.2 or later)	
Veritas	Red Hat Enterprise Linux	• •	Supported (7.7.2 or later)	
NetBackup	Windows	• •	Supported (7.7.2 or later)	
	Windows  Supported (7.7.2 or later)  Other supported OSs  Planned 2  Planne  Supported (15 FP3 or later)  Solaris  Supported Supported (15 Supported Support	Planned 2		
Veritas Backup Exec	Windows	• •	Planned 2	
	Solaris		Supported (8.2 or later)	
EMC	Red Hat Enterprise Linux	• •	Supported (8.2 or later)	
NetWorker	Windows	• •	Supported (8.2 or later)	
	SuSE LINUX Enterprise Linux Server	• •	Supported (8.2 or later)	
	Solaris	• •	Supported (7.1.3 or later)	
IBM Spectrum Protect	Red Hat Enterprise Linux	• •	Supported (7.1.3 or later)	
(Formerly IBM Tivoli Storage Manager IBM Tivoli Storage Manager EE)	Windows	• •	Supported (7.1.3 or later)	
	Other supported OSs	Planned 2	Planned 2	

	Red Hat Enterprise Linux	Supported (11.0 or later)	Supported (11.0 or later)	
Quest Software NetVault Backup	Windows	Supported (11.0 or later)	Supported (11.0 or later)	
	Other supported OSs	Planned 2	Planned 2	
HP DataProtector	Windows	Planned 2	Planned 2	
Seven10 StorfirstAltus	Windows	Planned 2	Planned 2	
CommVault	Supported OSs	Planned 2	Planned 2	

### NAS connection Edition 181: 2023/6/16

#### Notes

- This chart shows the OS and file system protocol support via the ETERNUS Ethernet port.
- Multipath connections between a server's NICs and switches are independent of the multipath connections between an ETERNUS Ethernet ports and switches.

There is no dependency between these multipath connections.

- Please contact the Server supplier for the server support status for the OS listed here.
- Please refer to user manual for the detail functional support status and support condition of CIFS/NFS.
- CIFS/NFS shared volume usage under cluster software is supported on cluster versions that support CIFS/NFS.
- Please contact each product supplier about operating condition, such as version, configuration, and patch.
- Trademark symbols have been omitted from this document.
- ETERNUS DX60 S5/S4/S3, DX8900 S4. DX8000 S3 series, DX200F, AF series are not applicable since NAS function is not supported.

	CIFS (SMB2.0/3.0/	NFS	FTP/FXP		VMware (NFS datastore) NFSv3					OVM	Instruction for use
	3.1.1 *1)			vSphere8.0 vSphere7.0 vSphere6.7 vSphere6.5 vSphere6.0 vSphere5.5		vSphere5.5	OVM 3.2/3.3				
DX100 S5 / DX200 S5 DX500 S5 / DX600 S5	Supported	Supported v3/v4 *4 *5	Supported	Supported	Supported	Supported	Supported	N.A.	N.A.	Planned 2	
DX100 S4 / DX200 S4 DX100 S3 / DX200 S3 DX500 S4 / DX600 S4 DX500 S3 / DX600 S3	Supported	Supported v2/v3/v4 *2 *3	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	

<sup>\*1</sup> For SMB3.0 or later, Hyper-V is not supported.

The following Windows NFS client connection is not supported;

- Subsystem for UNIX-based Applications (SUA)
- Services for UNIX(SFU)

The following Windows NFS client connection is not supported.

- Subsystem for UNIX-based Applications (SUA)
- Services for UNIX(SFU)
- \*6 NFSv4.1 is not supported

<sup>\*2</sup> The supported client as NFS v4 are Solaris 10 1/13(Update 11)/11.2/11.3, RHEL 6.7/6.8/6.9 and RHEL 7.0/7.1/7.2/7.3/7.4.

<sup>\*3</sup> IPv6 connection from NFS client of Solaris9, 10 is not supported.

<sup>\*4</sup> The supported client as NFS v4 are Solaris 10 5/09, Solaris 112/11.3, RHEL 6.6/6.10, RHEL 7.2/7.3/7.4/7.6.

<sup>\*5</sup> IPv6 connection from Solaris 10 NFS client is not supported.

## NAS-Backup Edition 147: 2019/11/12

#### **Notes**

- Please contact ISV vendor regarding necessary patches by each OS and each ISV.
- Please contact ISV vendor whether the ISV supports NAS connection, WORM, encryption function and clustering software.
- Please contact ISV vendor whether the ISV supports OS versions.
- For notes for each backup software, please refer to "FUJITSU Storage ETERNUS DX100 S3/DX200 S3, ETERNUS DX500 S3/DX600 S3 Disk storage system Configuration Guide (NAS)
- Oracle Solaris(TM)Operating System is described as "Solaris OS" here.
- ETERNUS DX60 S5/S4/S3, DX8900 S4. DX8000 S3 series, DX200F, AF series are not applicable since NAS function is not supported.
- Please contact each product supplier about operating condition, such as version, configuration, and patch.
- Meanings of Backup operation are
- Disk -> DX S5/S4/S3 : Production server's data is backed up by a backup server to DX S5/S4/S3 series NAS volume.
- NAS -> DX S5/S4/S3 : Data stored in NAS device connected to a production server is backed up by a backup server to DX S5/S4/S3 series NAS volume.

Currently supported NAS devices to be backuped are ETERNUS DX S5/S4/S3 series only.

- Disk/NAS ->DX S5/S4/S3->Tape: Data is backed up to DX S5/S4/S3 series NAS volume as described above, then is further backed up to a tape connected to the backup server as an external storage.
- Trademark symbols have been omitted from this document.

Backup Software	os	Backup operation	DX100 S5/S4/S3 DX200 S5/S4/S3 DX500 S5/S4/S3 DX600 S5/S4/S3	Instruction for use
Arcserve		Disk -> DX S5/S4/S3	Supported (r16.5/r17)	
Backup	Windows Server	NAS -> DX S5/S4/S3	Supported (r16.5/r17)	
http://arcserve.com/		Disk/NAS -> DX S5/S4/S3 -> Tape	Supported (r16.5/r17)	
Arcserve UDP <a href="http://www.arcserve.com/jp/products-solutions/products/unified-data-protection-software.aspx">http://www.arcserve.com/jp/products-solutions/products/unified-data-protection-software.aspx</a>	Windows Server	Disk -> DX S5/S4/S3	Supported (v6)	
		Disk -> DX S5/S4/S3	Supported (7.6/7.7)	
	Solaris	NAS -> DX S5/S4/S3	Supported (7.6/7.7)	
		Disk/NAS -> DX S5/S4/S3 -> Tape	Supported (7.6/7.7)	
Veritas		Disk -> DX S5/S4/S3	Supported (7.6/7.7)	
NetBackup	Windows Server	NAS -> DX S5/S4/S3	Supported *1 *2 (7.6/7.7)	
https://www.veritas.com/product/backup-and-recovery/netbackup		Disk/NAS -> DX S5/S4/S3 -> Tape	Supported *1 *2 (7.6/7.7)	
		Disk -> DX S5/S4/S3	Supported (7.6/7.7)	
	Red Hat Enterprise Linux	NAS -> DX S5/S4/S3	Supported (7.6/7.7)	
		Disk/NAS -> DX S5/S4/S3 -> Tape	Supported (7.6/7.7)	
Veritas System Recovery https://www.veritas.com/product/backup-and-recovery/system-recovery	Windows Server	Disk -> DX S5/S4/S3	Supported (2013R2)	
Veritas Backup Exec https://www.veritas.com/product/backup-and-recovery/backup-exec	Windows	Disk -> DX S5/S4/S3	Supported (2012/2014/15)	

<sup>\*1</sup> When there is no access right of "modify" or "display" of Audit information in folder/file property within CIFS shared environment from Windows OS, the audit information of folder/file cannot be backed up or restored. (Backup/restore of folder/file contents is property within CIFS shared environment from Windows OS, the audit information of folder/file cannot be backed up or restored. (Backup/restore of folder/file contents is property within CIFS shared environment from Windows OS, the audit information of folder/file cannot be backed up or restored. (Backup/restore of folder/file contents is property within CIFS shared environment from Windows OS, the audit information of folder/file cannot be backed up or restored. (Backup/restored.) (Bac

Backup Software	OS	Backup operation	DX100 S5/S4/S3 DX200 S5/S4/S3 DX500 S5/S4/S3 DX600 S5/S4/S3	Instruction for use
		Disk -> DX S5/S4/S3	Supported (8.1/8.2)	
	Solaris	NAS -> DX S5/S4/S3	Supported (8.1/8.2)	
		Disk/NAS -> DX S5/S4/S3 -> Tape	Supported (8.1/8.2)	
EMC		Disk -> DX S5/S4/S3	Supported (8.1/8.2)	
NetWorker	Windows Server	NAS -> DX S5/S4/S3	Supported (8.1/8.2)	
http://www.emc.com/data-protection/networker.htm		Disk/NAS -> DX S5/S4/S3 -> Tape	Supported (8.1/8.2)	
		Disk -> DX S5/S4/S3	Supported (8.1/8.2)	
	Red Hat Enterprise Linux	NAS -> DX S5/S4/S3	Supported (8.1/8.2)	
		Disk/NAS -> DX S5/S4/S3 -> Tape	Supported (8.1/8.2)	
		Disk -> DX S5/S4/S3	Supported (7.1)	
	Solaris	NAS -> DX S5/S4/S3	Supported (7.1)	
IBM		Disk/NAS -> DX S5/S4/S3 -> Tape	Supported (7.1)	
Spectrum Protect		Disk -> DX S5/S4/S3	Supported (7.1)	
(Formerly IBM Tivoli Storage Manager IBM Tivoli Storage Manager EE)	Windows Server	NAS -> DX S5/S4/S3	Supported *1 (7.1)	
http://www-03.ibm.com/software/products/en/spectrum-protect		Disk/NAS -> DX S5/S4/S3 -> Tape	Supported *1 (7.1)	
		Disk -> DX S5/S4/S3	Supported (7.1)	
	Red Hat Enterprise Linux	NAS -> DX S5/S4/S3	Supported (7.1)	
		Disk/NAS -> DX S5/S4/S3 -> Tape	Supported (7.1)	
		Disk -> DX S5/S4/S3	Supported (11.x/12.x)	
	Windows Server	NAS -> DX S5/S4/S3	Supported (11.x/12.x)	
Quest Software NetVault Backup		Disk/NAS -> DX S5/S4/S3 -> Tape	Supported (11.x/12.x)	
https://www.quest.com/products/netvault-backup/		Disk -> DX S5/S4/S3	Supported (11.x/12.x)	
	Red Hat Enterprise Linux	NAS -> DX S5/S4/S3	Supported (11.x/12.x)	
		Disk/NAS -> DX S5/S4/S3 -> Tape	Supported (11.x/12.x)	

<sup>\*1</sup> When there is no access right of "modify" or "display" of Audit information in folder/file property within CIFS shared environment from Windows OS, the audit information of folder/file can not be backed up/restore. (Backup/restore of folder/file contents is pos

## Key management server linkage Edition 161:2020/12/4

#### Notes

- To use the key management server, SED must be installed.
- Please ask the product supplier of each product for the operating requirements (version number, configuration, necessity patchs, etc.) for each product listed in this table.
- Trademark symbols have been omitted from this document.

	DX S5 series (except DX60 S5)	DX60 S5	DX S4 series (except DX60 S4)	DX60S4	DX S3 series (except DX60 S3)	DX60S3	AF series (except AF150S3 ,DX200F)	AF150 S3	DX200F	Instruction for use
ETERNUS SF KM 3.0/4.1	Supported	-	Supported	-	Supported	-	Supported	-	-	
IBM Security Key Lifecycle Manager V3.0	Supported	-	Supported	-	Supported	-	Supported	-	-	

## Other vendor certified products Edition 167: 2021/7/16

Notes

- Those products are certifed by other vendors, and Fujitsu provides support only limited to ETERNUS storage itself.
- Trademark symbols have been omitted from this document.

	ETERNUS DX series												
Product name	DX S5 series	AF S3 series	DX S4 series (except DX8900 S4)	DX8900 S4	DX60 S3	DX100 S3	DX200 S3	DX500 S3	DX600 S3	DX8700 S3 DX8900 S3	AF series (except AF S3 series)	DX200F	Instruction for use
HDS VSP/VSP G1000/HUS VM/USPV <a href="https://support.hds.com/en_us/interoperability.html">https://support.hds.com/en_us/interoperability.html</a>	Supported	Supported	Supported	Supported *1	Planned 2	Supported	Supported	Supported	Supported	Planned 2	Supported	Planned 2	The supported ETERNUS model depends on HDS products, so please refer to the HDS web for supported ETERNUS models.
IBM Storwize V5000/V7000 (V7.1.x) <a href="https://www-03.ibm.com/systems/support/storage/ssic/interoperability.wss">https://www-03.ibm.com/systems/support/storage/ssic/interoperability.wss</a>	Planned 2	Planned 2	Supported	Supported	Planned 2	Supported	Supported	Supported	Supported	Supported	Supported	Supported	
FalconStor NSS/FSS http://falconstor.com/subpage/913/disk-storage-devices	Supported *2	Supported *2	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	
VPLEX  https://elabnavigator.emc.com/eln/modernHomeSSM	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Planned 2	
EMC ViPR Controller OpenStack Cinder Support Icehouse / Juno Releases/Kilo/Liberty	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	Supported	Planned 2	Planned 2	Planned 2	Planned 2	Planned 2	

<sup>\*1:</sup> For connection with VSP, VSP's firmware should be updated.\*2: Please refer to other vendor's HCL for supported ETERNUS models.

#### FAQ Edition 87: 2017/6/12

Q1: Is there any plan to support Non-Stop OS and IBM i(OS/400)?

A1: No, thre are no plans to support those OSs.

Q2: Can teaming function (bonding) can be used on iSCSI connection?

A2: When multipath configuration is used on iSCSI connection, please use multipath software. Teaming function of LAN is not supported.

Q3: Please advice us on how to choose multipath software? (Such as the difference between ETERNUS Multipagh Driver and OS Native multipagh Driver and OS Na

A3: ETERNUS Multipath Driver is an ETERNUS specialized multipath software and can handle path selection and error recovery better than OS Native multipath software. OS Native Multipath software can be used among different vendor storages.

Q4: Is it possible to ask to support connectivity to OS for which the vendor has terminated support? (Ex. Windows 2003, RHEL 4)

A4: It depends on the target OS. Please contact us.

Q5: Is single path connection supported?

A5: When the multipath connection is supported in the matrix then the corresponding single path connection is also supported.

Q6: Is there any selection guide of switch on iSCSI connection? (Ex. SNMP is required, L2 or above is required, below L2 is possible etc.)

A6: There are no restrictions regarding the LAN switch unless otherwise specified.

Q7: If the status is "Supported" on this document, is that combination also supported by ETERNUS SF Software?

A7: No, please refer to ETERNUS SF products support matrix for support of ETERNUS SF software.

Q8: Is mixture of direct and via switch for FC connection from one server to ETERNUS possible?

A8: Yes, it is possible. (including each port of multi-port FC card and multiple one-port FC cards cases)

But it is only allowed on the following cases;

- Windows environment + Emulex HBAs or QLogic HBAs
- Linux environment + Qlogic HBAs
- VMware environment + Emulex HBAs or QLgic HBAs