

# Datasheet

## Fujitsu FlexFrame® for SAP®

### V5.2A Solution

FlexFrame® for SAP® Management Software V5.2A.

#### Dynamic IT-Solution for SAP® Adaptive Computing

FlexFrame for SAP as an end-to-end operating concept for service-oriented SAP infrastructure enables the consolidation of SAP applications on industry standard platforms delivering high quality of service. It dynamically assigns physical and virtual servers to SAP applications on demand. The pre-tested delivered solution reduces costs in all phases of operations dramatically as planning and implementation, operation for one or several clients and change management. The high agility of the solution enables easy scalability of server and applications during operation.

Within many customer scenarios as e.g. SW provisioning, cloning of the SAP landscape, update of OS and further extremely laborious tasks our customers have recognized most clearly the values of their decision for FlexFrame for SAP.

Central management, high-availability and disaster recovery are integrated components. Further efficiency advantages result from the integration of leading VMware Virtualization technology which can run each SAP application on any physical or virtual server within the server-pool, thus enabling a higher degree of HW utilization.

By now we offer with FlexFrame for SAP a ready for cloud computing solution!

#### FlexFrame for SAP Management Software V5.2A provides i.a. the following important enhancements:

- Administration
  - Automatic customizing of complete pool creation
- SAP enhancements
  - New SAP-Releases and Integration of further Services
  - Switch to SAP JVM 4
  - Support of Sybase ASE
- Virtualization
  - Enhanced support of NetApps Multistore (vfiler n>0)
- Operating system enhancements
  - Support of SLES for SAP on Application Nodes
  - Adaption of Control Node for SLES11/SLES for SAP

#### Enhanced FlexFrame for SAP functionality

Beside the standard FlexFrame features there exist following optional enhanced and additional functionality, which is described in separate data sheets and which requires each a separate runtime license:

- Role Based Access Control (RBAC)
- FF4SAP Accounting



# Features and Benefits

Main features	Benefits
<ul style="list-style-type: none"><li>■ Embedded high-availability</li><li>■ Virtualization of SAP services</li><li>■ Support of physical and virtual server</li><li>■ Full redundancy of all components</li><li>■ Shared operating system</li><li>■ Consolidated storage</li><li>■ Centralized administration</li></ul>	<ul style="list-style-type: none"><li>■ Reduced administration and testing, simple landscape changes</li><li>■ Better utilization of hardware, fast response to changes</li><li>■ Better utilization of hardware resources</li><li>■ No single point of failure</li><li>■ Reduced configuration efforts, no additional deployment software necessary, minimized risk on updates</li><li>■ Zero downtime, minimized administration</li><li>■ Reduced cost for running IT, enhanced service quality</li></ul>

# Technical Details

## General specification

<b>Release Information for FlexFrame for SAP V5.2A</b>	This Release Information is a summary of the major extensions, requirements & restrictions and operating information concerning FlexFrame for SAP V5.2A. Thus this work of reference outlines the scope of support within FlexFrame for SAP V5.2A.
<b>FlexFrame for SAP Support Matrix</b>	Within this matrix the relationship between supported servers, storage subsystems, network switches, operating systems, databases and SAP software is shown. The FlexFrame for SAP Support Matrix is available from our sales representative. At any time this document describes the current valid support situation. Due to the fact that with FlexFrame for SAP V5.2A major enhancements are provided, we strongly recommend checking the Support Matrix for a complete overview of the supported components.
<b>Note for using VMware virtual servers within FlexFrame</b>	Please note when using VMware virtual servers in FlexFrame versions less than V5.0A as a project specific solution that all configured virtual servers have to be deleted before updating to FlexFrame version V5.2A. When using VMware virtual servers within FlexFrame V5.2A we strongly recommend using also VMware vCenter Server for an easier administration and configuration.

## Hardware Prerequisites

<b>Servers</b>	
<b>Control Nodes</b>	PRIMERGY RX300 S4/S5/S6 <sup>1</sup> PRIMERGY RX300 S7
<b>Application Nodes</b>	PRIMERGY Rack servers: RX300 S3/S4/S5/S6/S7, RX600 S4/S5/S6, RX800 S3 (up to 4 CPUs) <sup>2</sup> , RX900 S2 <sup>3</sup> PRIMERGY Blade servers: BX620 S3/S4/S5/S6, BX6302, BX630 S2, BX920 S1/S2/S3, BX924 S2/S3
<b>Storage</b>	NetApp FAS Systems and V-Series equipped with ONTAP 8.1 7-Mode (or lower as the case may be; details see Support Matrix)
<b>Network Switches</b>	Cisco 3750G, 3750E and 3750X Series Cisco Nexus 50xx and 55xx Series
<b>Professional Services</b>	Installation, Configuration, Maintenance, Support
<b>Further Information</b>	Further details on the individual product specifications for the described components can be found in the relevant official Fujitsu data sheets and descriptions. The product specification as set out in these product data sheets will also remain applicable in case such infrastructure component is used in conjunction with FlexFrame V5.2A.

## Software prerequisites

<b>Control Nodes</b>	SuSE SLES11 SP2 plus SuSE SLES11 HA Extension SuSE SLES for SAP Applications
<b>Application Nodes</b>	SuSE SLES10 64Bit SP4 SuSE SLES for SAP Applications/SuSE SLES11 SP2
<b>Databases</b>	MaxDB 7.6 MaxDB 7.7 MaxDB 7.8 MaxDB 7.9 Oracle 9i Oracle10g Oracle 11g IBM DB2 9.1 IBM DB2 9.5 IBM DB2 9.7 IBM DB2 10.0 SAP Sybase ASE V15.7
<b>SAP Software</b>	Regarding SAP software, FlexFrame V5.2A supports SAP systems based on the above mentioned databases and the following kernels or bases by SAP: SAP Basis 4.6D

<sup>1</sup> For existing customers only

<sup>2</sup> Requires a special release request

<sup>3</sup> Without VMware Support

	<p>SAP WebAS 6.20 / 6.40 / 7.0</p> <p>SAP NetWeaver 7.1 / 7.2 / 7.3</p> <p>BOBJ – Business Objects Enterprise 3.1/3.2/4.0</p> <p>CMS – Content Server 6.40</p> <p>MDM – Master Data Management 7.1</p> <p>SMD – Solution Manager Diagnostics 7.1 / 7.3 SP2</p> <p>TREX – Search and Classification 7.1</p> <p>Be aware that restrictions by SAPs "Product Availability Matrix" are still valid.</p>
<b>VMware</b>	VMware vSphere ESXi 5.1

#### Distribution; Implementation; Documentation & Support

<b>User Interface</b>	English
<b>Installation</b>	Realized from FlexFrame consultants certified through Fujitsu in accordance with the installation guide and the HW Characteristics documents.
<b>Documentation</b>	User manuals are part of the Media CD or can be downloaded from <a href="http://manuals.ts.fujitsu.com">http://manuals.ts.fujitsu.com</a> .
<b>User Skills</b>	Knowledge of FlexFrame for SAP is presumed. Installation, configuration, and operation require detailed knowledge of the FlexFrame® software, the operating systems and of the SAP Basis.
<b>Conditions</b>	This software product is supplied under conditions described in our current license agreement.
<b>Warrenty</b>	Class: A Closure of a FlexFrame for SAP SolutionContract is mandatory.
<b>Media</b>	Control Node - Image (DVD) Application Node - Image (DVD) Service and Documentation (DVD)
<b>Ordering and Delivery</b>	This software product may be obtained from your local Fujitsu sales representative / regional office

# More information

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## Fujitsu platform solutions

In addition to Fujitsu FlexFrame® for SAP®/Solution, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

### Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure-as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

### Computing products

[www.fujitsu.com/global/services/computing/](http://www.fujitsu.com/global/services/computing/)

- PRIMERGY: Industrial standard server
- SPARC Enterprise: UNIX server
- PRIMEQUEST: Mission-critical IA server
- ETERNUS: Storage system
- BS2000 mainframes

### Software

[www.fujitsu.com/software/](http://www.fujitsu.com/software/)

- Interstage: Application infrastructure software
- Systemwalker: System management software

## More information

Learn more about Fujitsu FlexFrame® for SAP® Management Software, please contact your Fujitsu sales representative, Fujitsu business partner, or visit our website.

<http://ts.fujitsu.com/FlexFrame>

## Fujitsu Green Policy Innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT. Please find further information at: [www.fujitsu.com/global/about/environment/](http://www.fujitsu.com/global/about/environment/)



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