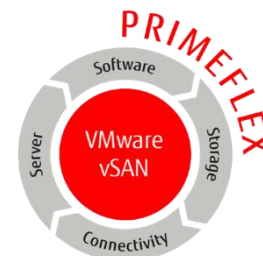# Data sheet
FUJITSU Integrated System PRIMEFLEX for VMware vSAN

Maximize operational efficiency of VMware HCI environments

Fujitsu Integrated System PRIMEFLEX for VMware vSAN is a ready-to-run integrated system that helps IT organizations maximize the operational efficiency of a VMware HCI environment. The appliance leverages a high performance, high-quality Fujitsu hardware platform, tightly integrated VMware and Fujitsu management software and a single point of contact for support to simplify the complete life cycle of a VMware-based hyper-converged IT infrastructure – from deployment, to operation, to scalability and maintenance.

High virtualization performance and energy-efficiency

The underlying computing platform comprises of Fujitsu PRIMERGY rack servers, providing massive scale-out x86 server power, while still delivering ideal economic efficiency in terms of server density, energy consumption, heat optimization and lower operating costs. Fujitsu PRIMERGY servers have a long track record of continuous outstanding benchmark results, enjoying the longest leadership positions in most of the VMware VMmark benchmark categories. Thanks to the Fujitsu Cool-safe® advanced thermal design, additional cooling costs can be saved on top of comparatively low energy consumption.

VMware Hyper-Converged Infrastructure software

VMware's Hyper-converged infrastructure (HCI) software combines compute, storage, and management onto industry-standard x86 servers, delivering a software-defined, building block approach to IT with scale-out capabilities. HCI powered by VMware includes:
- Single integrated platform built on VMware vSphere®, the market-leading hypervisor
- VMware vSAN™, the software-defined enterprise storage solution natively integrated with vSphere
- VMware vCenter Server®, the familiar unified, extensible management tool

FUJITSU Software Infrastructure Manager for PRIMEFLEX

FUJITSU Infrastructure Manager for PRIMEFLEX provides converged, unified management across server, storage and networking from a single user interface. The integration with VMware management tools significantly reduces life cycle management efforts in VMware vSAN environments with:
- Advanced monitoring of critical hardware components in VMware vSAN environments
- Automated HCL-compatible firmware updates of a single server or complete vSAN cluster
- Automated configuration of additional server nodes in the vSAN cluster

Fast time to production

The PRIMEFLEX for VMware vSAN comes with an onsite deployment service that puts the appliance into productive use within a few days instead of months, providing IT organizations with the fastest way to deploy a VMware hyper-converged infrastructure.

One-stop support

Fujitsu Infrastructure Support Services (SolutionPacks) deliver end-to-end support with a single point of contact for the complete hardware and software stack dramatically improving the time to incident resolution.

www.fujitsu.com/global/pf4vsan

Features and benefits

MAIN FEATURES	BENEFITS
Compute and storage hardware	
■ Fujitsu vSAN ReadyNodes™ based on Fujitsu Server PRIMERGY RX2530 or RX2540 systems providing compute and storage capacity with internal disks	■ High-performance, energy-efficient and space saving x86 servers satisfying different performance and capacity requirements
Networking hardware (optional)	
■ Two redundant top-of-rack switches for intra-rack connectivity and traffic to data center network ■ One management switch	■ Offers a flexible switching platform in a compact form factor for highly scalable HCI architectures
Server and storage virtualization	
■ VMware ESXi for server virtualization ■ VMware vSAN™ for storage virtualization	■ Delivers enterprise-class software-defined compute and storage infrastructure for all workloads
Management	
■ VMware vCenter Server ■ FUJITSU Software Infrastructure Manager for PRIMEFLEX (ISM)	■ VMware vCenter Server offers a centralized platform for controlling VMware vSphere environments, while ISM offers intelligent and innovative system management providing all the functions for fail-safe, flexible and automated 24x7 server operations including HCL (Hardware Compatibility List) compliant firmware life cycle management
Deployment model	
■ Ready-to-run delivery of all hardware and mandatory software components - complemented with deployment services	■ Reduces implementation risks; speeds up deployment time at the customer site to typically a few days only
Support	
■ Single point of contact for support for all components of the entire solution and its lifecycle	■ Easier support interaction with speedier resolution times

Technical details

Hardware

| Compute and storage | The PRIMEFLEX for VMware vSAN appliance supports specific Fujitsu vSAN ReadyNodes™ based on 2.5 inch PRIMERGY RX2530 M6 and RX2540 M6 server models. The following storage configurations are supported for the different server models. |

	RX2530 M6	RX2540 M6
Hybrid (SSD + HDD)	Y	Y
All flash (SSD + SSD)	Y	Y
All flash (NVMe + SSD)	N	Y

| Networking | Customers can provide their own switches. Alternatively, switches are optionally orderable:
Extreme Networks® ExtremeSwitching™ VDX6740 48 x 10GE, 4x 40GE 1U
For further info please see the related data sheet.
Extreme Networks® ExtremeSwitching™ VDX6740T-1G, 48x 1GE, 1U
For further info please see the related data sheet.
FUJITSU Server PSWITCH 4032P,32x 40GE, 1U
For further info please see the related data sheet.
FUJITSU Server PSWITCH 2048, 48x 10GE, 6x 40GE, 1U
For further info please see the related data sheet.
Juniper Networks® QFX5120-48T, 48x 1/10GE, 6x 40/100GE, 1U
For further info please see the related data sheet.
Juniper Networks® QFX5120-48Y, 48x 10/25GE, 8x 40/100GE, 1U
For further info please see the related data sheet. |
| Rack Infrastructure | Customers can provide their own racks. Alternatively, racks are optionally orderable: FUJITSU PRIMECENTER M2 Rack |

Software

| Server and storage virtualization | VMware ESX 7.0 U2
VMware vSAN 7.0 U2 |
| Management | Fujitsu Infrastructure Manager for PRIMFLEX 2.7.0 or later
VMware vCenter Server 7.0 U2 |

| Licencing | All license types can be used (OEM, ELA, reselling, incl. existing licenses). Exclusively for the PRIMEFLEX for VMware vSAN Appliance, there is an additional option for licensing available– the appliance license. This licence is bound to the life-time of the server system and is available with a 1, 3 or 5 year lifecycle with option to extend. The appropriate VMware End User License Agreement (EULA) terms for VMware vSAN apply and have to be agreed before first usage. You will find the EULA terms at:
http://www.vmware.com/download/eula/ |
| License terms | Fujitsu provides Product Activation Codes (PAC) for the complete PRIMEFLEX for VMware vSAN software bundle. To generate valid license keys these activation codes have to be activated at http://www.vmware.com/code/fsc |

| Warranty | Class A / Standard hardware warranty is 3 years |

Support Services	
Support and Service regulations	The maintenance offer for the PRIMEFLEX for VMware vSAN appliance is based on Fujitsu SupportPacks with standardized product-related services and predefined SLAs for the software and hardware components. Support Services for the hardware components extend the standard warranty and provide various options for duration, response or recover times to meet individual customer needs.
	For the VMware software the Support Services comprise the diagnosis of software incidents and the provision of workarounds, corrections and software versions with new functions (new major releases) - all according to the VMware's license policy. The Support Packs for the VMware software products have an intital term of 3, 4 or 5 years, 24x7 service time and customers can choose next business day or 4 hours responsible time.
Recommended Service	24x7, onsite response time: 4h
Service Lifecycle	5 years
Service Weblink	http://ts.fujitsu.com/Supportservice

Professional Services	
Deployment Service (mandatory)	The PRIMEFLEX for VMware vSAN appliance includes a mandatory deployment service, which cares for on-site bring-up of the solution.

Ordering	The PRIMEFLEX for VMware vSAN appliance may be obtained from local Fujitsu sales representative, or regional offices.

Delivery	The recommended initial minimum configuration is 4 compute nodes. Within a rack single compute nodes may be added in any number until the maximum capacity of the rack is reached.

Documentation	Documentation is provided as part of the implementation service.

Disclaimer	Any change in the configuration or settings of the PRIMEFLEX for VMware vSAN appliance, unless explicitly permitted in the respective user documentation, is regarded as a customer disassembly of the PRIMEFLEX for VMware vSAN appliance. Customer disassembly, regardless whether it is related to settings or configuration changes in hardware or software components, automatically and immediately terminates any warranties, service and support obligations of Fujitsu regarding the PRIMEFLEX for VMware vSAN appliance.

Fujitsu platform solutions

In addition to the FUJITSU Integrated System PRIMEFLEX for VMware vSAN appliance, 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 Business-Centric Data Center approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to data center 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/
- PRIMERGY: Industrial standard server
- SPARC Enterprise: UNIX server
- PRIMEQUEST: Mission-critical server
- ETERNUS: Storage system

Software

www.fujitsu.com/software/

More information

To learn more about FUJITSU Integrated System PRIMEFLEX for VMware vSAN, please contact your Fujitsu business partner, Fujitsu sales representative, or visit our website.

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/

www.fujitsu.com/global/pf4vsan