

SPEC Sheet

FUJITSU Integrated Systems PRIMEFLEX[®] vShape[®] VDI with NetApp

PRIMEFLEX vShape is a reference architecture providing a reliable solution to address the complex challenges of virtualization such as performance, availability, security, flexibility and efficiency. The partnership between Fujitsu, VMware and Brocade removes the headaches associated with self-configuration and guarantees a tested and perfectly synchronized combination of technologies. By tailoring the solutions to the application's requirements, the purchase cost, time to deploy and provisioning time are all considerably lowered.



Get ready to innovate!

The flexible and scalable vShape solutions combine all aspects of a virtual environment, based on optimized technologies and best practice solutions, with simple implementation and operation. vShape is unique in bringing complete and validated virtual infrastructures, all supported under a single maintenance contract provided by Fujitsu.

Key customer benefits are:

- Validated IT infrastructure for virtualized environments
- Clear management and consolidation benefits
- Optimized to deliver against customer needs:
 - Capacity
 - Performance
 - Availability
- Highly scalable and flexible reference architectures
- Simple, fast and reduced risk implementation
- Improves operational efficiency by reducing costs
- Single point of contact for the maintenance of the complete solution

vShape VDI consists of NetApp FAS storage, Brocade IP switches, VMware hypervisor technology and either VMware or Citrix desktop virtualization products, running on Fujitsu PRIMERGY servers designed and optimized for virtualization.

The flexible and scalable vShape solutions combine all aspects of a virtual environment, based on optimized technologies and best practice solutions, with simple implementation and operation.

Customers receive a validated pre-designed, pre-integrated, pre-packaged set of infrastructure components delivered with a mandatory deployment service to provide a ready to use virtualization platform for virtual machine workloads.

vShape VDI is pre-sized for support of 250 or 500 virtual desktops in a High Availability configuration.

A customer may have virtual machines of differing sizes to the standard used in defining the vShape platform and still be sure of performance so long as the aggregate specification of the virtual machines do not exceed the defined configuration parameters.

PRIMEFLEX vShape VDI Infrastructure Specifications

	PRIMEFLEX vShape VDI 250 FTS:VSP250-D-V-B-N	PRIMEFLEX vShape VDI 500 FTS:VSP500-D-V-B-N
Servers		
Model	PRIMERGY RX2540 M2	
No. of Servers	3	5
Processors	Intel Xeon E5-2680v4 14C/28T 2.40GHz 35Mb	
CPU/Server	2	2
RAM/Server	384 GB DDR4-2133 MHz	
10 Gb Ethernet/Server	4	
1 Gb Ethernet/Server	1 (iRMC)	
Further information	http://docs.ts.fujitsu.com/dl.aspx?id=02afb0b0-c3b6-42cf-8324-2eec3c3757a2	
Networking		
Model	Brocade VDX 6740	
No. of Switches	2	2
Total 10GbE Ports	48	48
Further information	http://www.brocade.com/en/backend-content/pdf-page.html?/content/dam/common/documents/content-types/datasheet/brocade-idx-6740-switches-ds.pdf	
Storage		
Model	NetApp FAS 2552	
Disk Type	SAS 10K 600 GB	
No. of Disks, (Data/Spare)	24 (20/4)	36 (32/4)
Usable Capacity (TB)	7.5	15
Total IOPS	>2500	>5000
Host Interfaces 1GbE/10GbE	0/4	
Further information	http://www.fujitsu.com/fts/products/computing/storage/disk/netapp/fas2500-series/index.html	
Rack Infrastructure		
Model	PRIMECENTER M2 Rack 42U-1200x800	
Dimensions	1200x800	
Height Units	42	
Populated Height Units	13HU	17HU
Software		
Fujitsu	ServerView Suite and iRMC S4 Advanced Pack	
With VMware Horizon™	Included: VMware Horizon View Standard which includes Desktop Edition of vSphere and vCenter Optional: VMware Horizon Advanced or Enterprise with additional features	
With Citrix XenDesktop®	Included: VMware vSphere Essentials Plus with vCenter Essentials Citrix XenDesktop licenses have to be acquired via reselling.	Included: VMware vSphere Standard for all CPUs and vCenter Standard Citrix XenDesktop licenses have to be acquired via reselling.
Supported Operating Systems	Please verify the supported OS in the requirements of either VMware Horizon or Citrix XenDesktop <ul style="list-style-type: none"> ▪ https://pubs.vmware.com/horizon-view-60/topic/com.vmware.ICbase/PDF/horizon-view-60-installation.pdf (Chapter 2) ▪ http://support.citrix.com/proddocs/topic/xenapp-xendesktop-76/xad-system-requirements-76.html#xad-system-req-76_vda-desktop 	
Systems Management		
	As part of the implementation services, Fujitsu Professional services will deploy two virtual management servers to support further configuration and daily administration/management of the vShape infrastructure. The management servers include the following services:	
Fujitsu	ServerView Operations Manager	
NetApp	Premium Bundle included with all vShape platforms and includes SnapRestore®, SnapMirror®, FlexClone®, SnapManager® Suite, SnapVault, NetApp On Command Manager	
VMware	VMware vCenter (Desktop, Essentials, Standard) and relevant client for access	

PRIMEFLEX vShape VDI Environmental Information

	PRIMEFLEX vShape VDI 250	PRIMEFLEX vShape VDI 500
Installation Specification		
Dimensions (W x D x H)	800mm x 1,200mm x 2000mm	
Transport Dimensions (W x D x H)	900mm x 1,350mm x 2,150mm (approx.)	
Service Area: Front	900 mm (35.5 inch) or more	
Service Area: Rear	900 mm (35.5 inch) or more	
Configured Weight	269 kg	325 kg
Maximum Possible Payload	840 Kg	
Power	Voltage: AC 200 – 240v Phase: Redundant House Connections Required: 2 x AC CEE 32AMP	
Active Power (According to construction)	2320 W	3478 W
Heat emission (According to construction)	8352 kj/h (7917 BTU/h)	12521 kj/h (11868 BTU/h)
Temperature (operating)	5 – 35°C (41 – 95°F)	
Humidity (operating)	20 – 80% RH	
Network Connections (House Connections Required)	4 x 10GbE FCLC	4 x 10GbE FCLC
Professional Services		
Deployment Service	Optional (base deployment only - without desktop virtualization part)	
Integration Service	Optional	
Maintenance & Support Services		
	Service Pack is mandatory (excludes rack infrastructure)	
Service Period	3 years or 5 years	
Service Type	Classic	Superior
Service Level	5x9 with 4 hour response	7 x 24 with 4 hour response
Proactive Services	Optional	Bi-Yearly
	For details see separate solution contract datasheet	
General Notes		
Admin client (additionally required)	Server or PC with operating system, browser and Java are required to access the management server hosted within the vShape.	
SQL Server Instance (additionally required)	For 50 and above virtual machines vCenter requires an SQL database instance.	
Windows Server 2012 R2 Standard License (included)	vShape deployments include two virtual management servers, as such Windows Server (virtual use right) licenses are included	
Installation	By consultants certified through Fujitsu in accordance with the installation guide and the related documents.	
Implementation	Installation, configuration and implementation require detailed knowledge of the whole vShape Infrastructures for VMware solution and the supporting software components and must be done by Fujitsu professional service or certified consultants.	
User Skills	Configuration and daily administration require a good working knowledge of: VMware vSphere and vCenter, Brocade VDX Switches, Storage Cruiser Standard, Fujitsu ServerView Suite and the chosen desktop virtualization solution (VMware Horizon or Citrix XenDesktop)	

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 2016-07-19 WW-EN

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