Server, Storage & Integrated Systems Family Guide

Your fast lane to PRIMERGY / PRIMEQUEST servers, ETERNUS storage and PRIMEFLEX Integrated Systems

FUJITSU

Microsoft

Windows Server:
The operating system that bridges on-premises and cloud.

shaping tomorrow with you

Find out, which data center infrastructure systems suit you best

Download our Fujitsu Value Calculator app!

The **Value Calculator** provides a comparison between your current PRIMERGY servers or ETERNUS storage systems and the current system generation. The results displayed include information on potential savings and performance improvements.

The **Product Finder** helps you to find a suitable server or storage system. After selecting some appropriate criteria, suitable PRIMERGY servers or ETERNUS storage systems are displayed with a brief description and further information.

The **Resource Center** keeps you up to date on Fujitsu server and storage systems, which is especially useful on the road. It is your central source of information with current case studies, news, white papers, benchmarks and much more.

The **Portfolio Overview** provides detailed insights on all industry-standard x86 PRIMERGY and mission-critical x86 PRIMEQUEST servers.

FUJITSU Value Calculator

Fujitsu offers a comprehensive portfolio with servers and storage systems as backbone of each datacenter solution. With PRIMERGY servers and ETERNUS DX storage systems, Fujitsu provides a way to keep your business running in a timely, efficient and cost-effective manner.

Fujitsu x86 Server
Industry's most complete x86-based portfol...

Fujitsu Storage
Fujitsu's ETERNUS DX disk storage system...

FUJITSU x86 Server

FUJITSU servers provide the most powerful and flexible datacenter solutions for companies of all sizes, across all industries and for any type of workload.

- Value Calculator
- Product Finder
- Portfolio Overview
- Resource Center

ETERNUS CS Data Protection Appliances

Fujitsu Storage ETERNUS CS800 is a turnkey data protection appliance and provides a simple and affordable solution for customers which follow a backup to disk strategy with deduplication.

- Calculator
- Product Finder
- Resource Center

FUJITSU Storage

In the storage area you can rely on a well synchronized portfolio – Business-centric storage at its best from a single provider with more than 50 years experience in storage.

- ETERNUS DX Disk Storage Systems
- ETERNUS LT Tape Storage Systems
- ETERNUS CS Data Protection Appliances

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ANDROID APP ON Google play

Download from Windows Phone Store

Be flexible.
With the right
foundation.

FUJITSU Server Systems

Rely on
Quality
Watch now!

Rely on
Efficiency
Watch now!

Rely on
Agility
Watch now!

Rely on
Integration
Watch now!

Digitalization: Your Data Center is the foundation
FUJITSU Business-Centric Data Center

We live in a world where people are constantly connected. As individuals we want more intuitive services. Be it large or small and medium-sized businesses, both must adapt to this rising demand and what it means for their ICT. It all depends on what you do with your IT. There can be no 'one-size-fits-all' approach to your data center. So we start with your business priorities then match the right mix of products, services and solutions. That way you get an end-to-end approach that can deliver what your enterprise demands.See how Fujitsu can help large or growing businesses achieve their business objectives.

Business-Centric COMPUTING

Fujitsu Business-Centric Computing will give you the servers you need to power any workload and changing business requirements.

Business-Centric STORAGE

Fujitsu ETERNUS Business-centric Storage supports your business better to help you achieve your goals.

Business-Centric INTEGRATED SYSTEMS

Building data center infrastructure is often complex and time-consuming. You'll know the do-it-yourself approach can be risky and expensive. With Fujitsu Business-Centric Integrated Systems you can make the difference.

Business-centric Data Center
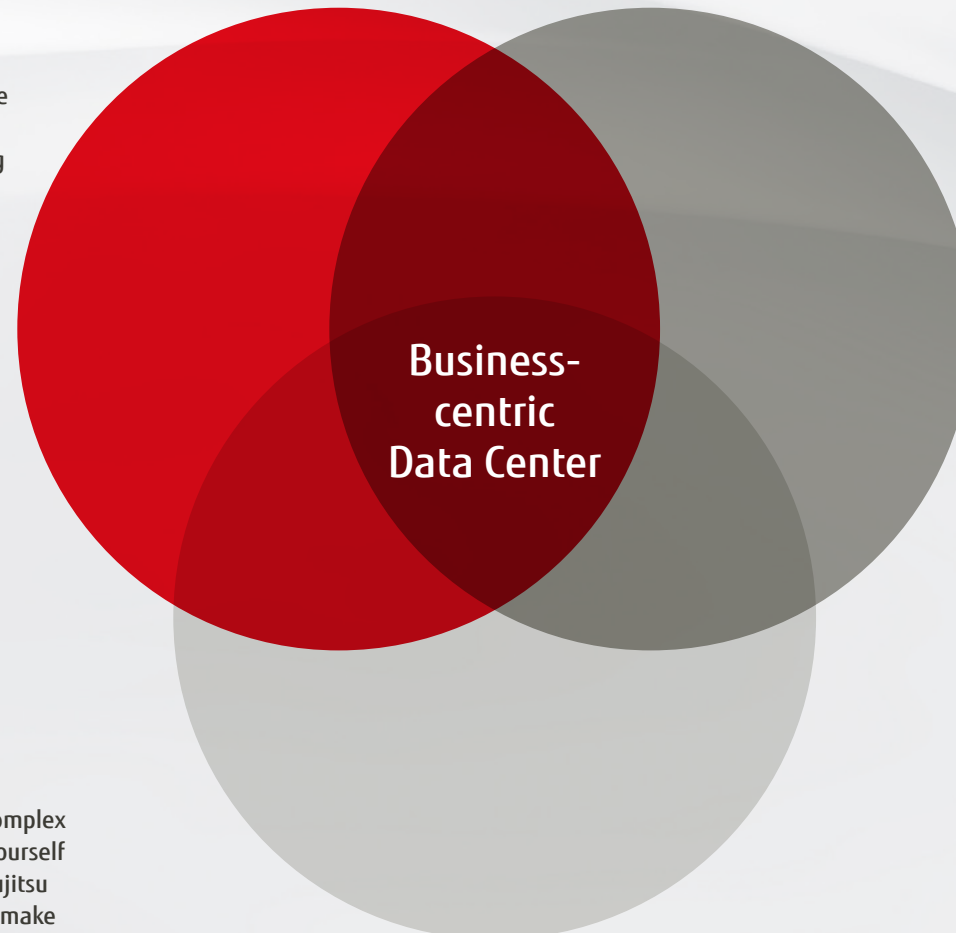
FUJITSU Server Products
Ensure your servers serve your business

FUJITSU is the leading ICT provider with an entire portfolio of IT products, solutions and services – from notebooks, tablets, PCs and data center solutions up to managed services and cloud solutions. FUJITSU servers provide the basis to set up the most powerful and flexible data center solutions for companies of all sizes, across all industries and for any type of workload. This includes industry standard PRIMERGY servers, mission-critical PRIMEQUEST systems and SPARC/UNIX servers to be able to offer the right combination of systems, solutions and know-how to guarantee maximum productivity, efficiency and flexibility.

Optimized x86 server portfolio to power any workload and business demand
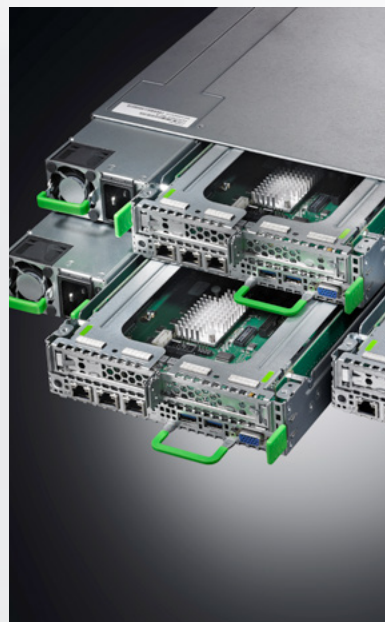
Perfect for SMB's, branches and office environments	Core Business and Data Demanding Applications	HPC, Cloud, Technical Computing and Deep Learning	Business and Mission-critical environments	Operation and Management
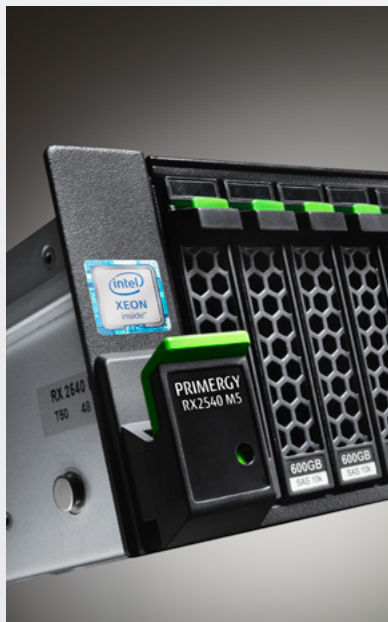
Robust and cost-efficient servers characterized by simple and quiet operations	Versatile rack servers with leading efficiency and performance	Modular and density-optimized servers to scale efficiently	Business continuity for permanent data access and use cases such as in-memory computing	Efficient operation and management of IT infrastructures and equipment

FUJITSU Server PRIMERGY Tower and Rack Systems
The efficient, flexible foundation for business growth

Quickly changing business requirements need an IT infrastructure that guarantees maximum productivity, cost efficiency, agility and are easy to integrate in any existing environment. Be it a department server or a large data center solution, FUJITSU Server PRIMERGY systems and solutions can meet these requirements for companies of all sizes and provide a cost-effective and adaptable range of services.

Type	Specifications		Products	Processor	Memory	Storage

■ PRIMERGY TX Server

Type	Specifications		Products	Processor	Memory	Storage
Mono	Essential Workloads	Compact	TX1310 M3	Intel® Xeon® E3v6, Core i3®, Pentium®, Celeron®	4 – 64 GB 4 DIMM DDR4	4 x 3.5" SATA
	Standard Workloads	Ultra-compact	TX1320 M4	Intel® Xeon® E-2100, Core i3, Pentium®, Celeron®	4 – 64 GB 4 DIMM DDR4	2 x 3.5" SATA or 8 x 2.5" SATA/SAS
		Redundancy	TX1330 M4	Intel® Xeon® E-2100, Core i3®, Pentium®	4 – 64 GB 4 DIMM DDR4	12 x 3.5" SATA/SAS or 24 x 2.5" SATA/SAS
Dual	High Workload Versatility	Performance + Scalability	TX2550 M5	1-2 x Intel® Xeon® Scalable Family	8 GB– 768 GB /1.5TB 12 DIMM DDR4/DCPMM	12 x 3.5" SATA/SAS or 32 x 2.5" SATA/SAS

Specifications detail:
- TX1310 M3: 4 PCI slots / up to 4 x HDDs; 1x standard power supply
- TX1320 M4: 4 PCI slots / up to 8 x HDDs/SSDs; Hot-plug power supply
- TX1330 M4: 4 PCI slots / up to 24 x HDDs/SSDs; Redundant fans/ Hot-plug PSU
- TX2550 M5: 8 PCI slots / up to 32 x HDDs/SSDs; Redundant fans/ Hot-plug PSU

■ PRIMERGY RX Server

Type	Specifications		Products	Processor	Memory	Storage
Mono	1U (3 x PCI slots, 4 x HDDs)		RX1330 M4	Intel® Xeon® E-2100, Core i3®, Pentium®	4 – 64 GB 4 DIMM DDR4	4 x 3.5" SATA/SAS or 10 x 2.5" SATA/SAS
Dual	Essential performance	Height units / scalability — 1U / low	RX2510 M2	1-2 x Intel® Xeon® E5-2600v4	4 – 384 GB 24 DIMM DDR4	4 x 3.5" SATA/SAS or 4 x 2.5" SATA/SAS
		Height units / scalability — 2U / high	RX2520 M5	1-2 x Intel® Xeon® Scalable Family	4 – 768 GB 12 DIMM DDR4	12 x 3.5" SATA/SAS or 24 x 2.5" SATA/SAS
	Max. performance	Height units / scalability — 1U / high	RX2530 M5	1-2 x Intel® Xeon® Scalable Family	8 GB– 3 TB/7.5TB 24 DIMM DDR4/DCPMM	4 x 3.5" SATA/SAS or 8x/10x 2.5" SATA/SAS/PCIe
		Height units / scalability — 2U / very high	RX2540 M5	1-2 x Intel® Xeon® Scalable Family	8 GB– 3 TB/7.5TB 24 DIMM DDR4/DCPMM	12x 3.5" SATA/SAS or 28 x 2.5" SATA/SAS/PCIe
Quad	Max. memory expansion	2U/	RX4770 M5	2-4 Intel® Xeon® Scalable Family	16 GB – 6 TB/15TB 48 DIMM DDR4/DCPMM	16 x 2.5" hot-plug SAS/SATA/PCIe

Specifications detail:
- RX2510 M2: 4 x PCI slots, 4 x HDDs/SSDs
- RX2520 M5: 6 x PCI slots, up to 24 x HDDs/SSDs
- RX2530 M5: 4 x PCI slots, 10 x HDDs/SSDs
- RX2540 M5: (8 x PCI slots, up to 28 x HDDs/SSDs
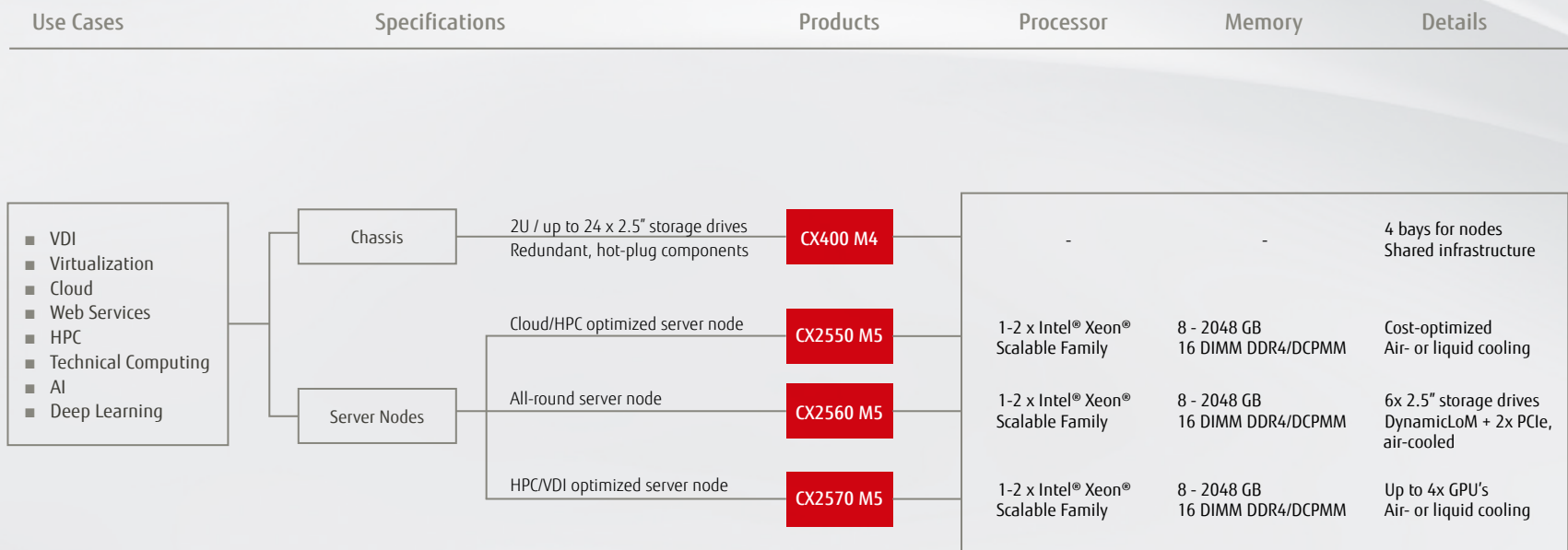- RX4770 M5: 8 x PCI slots, up to 16x HDDs/SSDs

FUJITSU Server PRIMERGY Scale-out Systems
Platform for cloud, HPC, and large scale-out computing

FUJITSU Server PRIMERGY CX scale-out systems are built for cloud computing scenarios, high performance computing, service providers and large server farms. They focus on providing large datacenters with massive scale-out x86 server power while at the same time delivering best economics for server density, energy consumption, heat optimization and lower overall operational costs.massive scale-out x86 server power while at the same time delivering best economics for server density, energy consumption, heat optimization and lower overall operating costs.

Workload-specific power in a compact and modular form factor
The PRIMERGY CX400 M4 is a modular enclosure for the Fujitsu scale-out ecosystem that combines the density and efficiency of blade-like servers with the simplicity and cost benefits of rack-based systems.

	Use Cases	Specifications	Products	Processor	Memory	Details

■ PRIMERGY CX Servers

	Use Cases		Specifications	Products	Processor	Memory	Details
	■ VDI ■ Virtualization ■ Cloud ■ Web Services ■ HPC ■ Technical Computing ■ AI ■ Deep Learning	Chassis	2U / up to 24 x 2.5" storage drives Redundant, hot-plug components	CX400 M4	-	-	4 bays for nodes Shared infrastructure
		Server Nodes	Cloud/HPC optimized server node	CX2550 M5	1-2 x Intel® Xeon® Scalable Family	8 - 2048 GB 16 DIMM DDR4/DCPMM	Cost-optimized Air- or liquid cooling
			All-round server node	CX2560 M5	1-2 x Intel® Xeon® Scalable Family	8 - 2048 GB 16 DIMM DDR4/DCPMM	6x 2.5" storage drives DynamicLoM + 2x PCIe, air-cooled
			HPC/VDI optimized server node	CX2570 M5	1-2 x Intel® Xeon® Scalable Family	8 - 2048 GB 16 DIMM DDR4/DCPMM	Up to 4x GPU's Air- or liquid cooling

FUJITSU Server PRIMEQUEST Systems
Scalable platform for business-critical and mission-critical applications

Fujitsu Server PRIMEQUEST systems offers unprecedented x86 performance and memory expandability for resource-intensive applications. By uniting the x86 industry standards with mission-critical features, PRIMEQUEST systems delivers availability levels similar to those of UNIX systems – but with the cost advantages of an x86-based architecture.

Superior performance and reliability for business-critical workloads with optimized economics

Featuring the latest Intel® Xeon® Processor Scalable Family with up to 28 cores per processor and fastest available DDR4 memory modules with 12TB total capacity, the PRIMEQUEST 3800B improves performance for in-memory databases such as SAP HANA® and real-time data analytics. Along with uncompromising performance, the PRIMEQUEST 3800B's optimized economics in a compact 5U chassis and advanced RAS features that prevent errors in advance, make it the right choice for demanding corporate databases, in-memory solutions and business-critical applications.

Redefining mission-critical server architecture

FUJITSU Server PRIMEQUEST 3400E/3800E Mission Critical systems unify the economic and flexibility benefits of x86 industry standard servers with mission-critical uptime features. Featuring four/eight of the Intel® Xeon® Processor Scalable Family provided with up to 112/224 cores and up to 12 TB DDR4 memory, the PRIMEQUEST 3400E/3800E provide unprecedented performance and memory capacity for demanding solutions. Along with uncompromising performance, the PRIMEQUEST 3400E/3800E dramatically simplify server architecture for mission-critical computing and come in an all-new compact 7U form factor. This enhanced performance in a significantly smaller form factor, results in lower power consumption and helps reduce the environmental footprint in a data center leading to significant cost savings. Moreover, mission critical features enable for an outstanding platform reliability with innovative error prevention and self-healing capabilities.

Type	Use Cases	Products	Processor	Memory	Storage / PCI	RAS Features

■ PRIMEQUEST 3800B2

| Octo | ■ Business-critical applications
■ Transaction demanding workloads
■ In-memory databases
■ Real-time data analytics
■ High-density, high-capability virtualization | PRIMEQUEST 3800B2 | Up to 8 x Intel® Xeon® Scalable Family Processor | 16 GB - 24 TB / 36 TB 96 DIMM DDR4 / DCPMMM | 8 x 2.5" / 16 PCIe slots | SDDC+1, ECC, redundant fans and power supply Intra-socket memory mirroring, MCA, ADDDC-MR |

■ PRIMEQUEST 3x00E2

| Octo | ■ Mission-critical applications
■ Big data applications
■ Unix migration
■ High-volume, high-value workloads such as online transaction processing (OLTP), batch processing, and database applications
■ In-memory databases
■ Real-time data analytics | PRIMEQUEST 3800E | Up to 8 x Intel® Xeon® Scalable Family Processor | 16 GB - 24 TB / 36 TB 96 DIMM DDR4 / DCPMMM | 24 x 2.5" / 16 PCIe slots | Standard - SDDC+1, ECC, redundant fans and power supply Advanced - Intra-socket memory mirroring, MCA, ADDDC-MR Mission Critical - Physical Partition, Extended Partition, Reserved Systemboard, flex IO, Dynamic Reconfiguration, redundant MMB, hot-plug PCIe |

Your Fast Track to Data Center Infrastructures

FUJITSU Integrated System PRIMEFLEX

Watch now!

SIMPLE · RELIABLE · COST EFFICIENT

HCI

FUJITSU Integrated System PRIMEFLEX
Your Fast Track to Data Center Infrastructures

FUJITSU Integrated System PRIMEFLEX is a pre-integrated and pre-tested combination of servers, storage, network connectivity and software. PRIMEFLEX includes both 'ready to run' systems which are pre-installed at the factory, and customizable reference architectures. This reduces complexity, project time, risk and cost, while increasing operational efficiency. Flexible services options such as consulting, design, on-site deployment, integration into existing environments, migration services and overall support delivered by Fujitsu or its partners enable worry-free operation. Pay-as-you go financing options are also available. FUJITSU Integrated System PRIMEFLEX addresses business-critical use cases, such as virtualization and cloud, analytics including Big Data, High-Performance Computing and Artificial Intelligence, as well as SAP environments.

Virtualization and Cloud

PRIMEFLEX for VMware vSphere

Converged system for deploying VMware vSphere based infrastructure with external all flash or hybrid storage from FUJITSU.
It includes multiple configurations varying in size, scales from 2 up to 64 servers and can support up to 2800 VMs.

Compute:	PRIMERGY RX	**Software:**	VMware vSphere
Storage:	ETERNUS DX / AF	**Optional:**	VMware Horizon
Network:	Extreme Networks	**Management:**	Fujitsu ISM
Optional:	Broadcom		

PRIMEFLEX for VMware vSAN

Hyper-converged system based on VMware software-defined server and storage technology delivered by the VMware HCI software stack. The system is available in various vSAN Ready Nodes configurations with pre-installed software scaling from 2 to 64 server nodes.

Compute / Storage:	PRIMERGY RX / CX
Software:	VMware vSphere, vSAN
Optional:	VMware Horizon
Management:	Fujitsu ISM (optional)

PRIMEFLEX for VMware Cloud Foundation

Hyper-converged system for deploying a VMware-based software-defined data center infrastructure. The system is available in various configurations from 4 to 240 server nodes.

Compute / Storage:	PRIMERGY RX
Network:	Extreme Networks
Software:	VMware Cloud Foundation
Optional:	VMware Horizon, vRealize
Management:	Fujitsu ISM

PRIMEFLEX for Microsoft Storage Spaces Direct

Hyper-converged system based on Microsoft software-defined server and storage technology integrated in Windows Server 2016. The system is available in various validated and certified configurations scaling from 2 to 16 server nodes.

Compute / Storage:	PRIMERGY RX
Software:	Windows Server Datacenter Edition (Hyper-V and Storage Spaces Direct)
Optional:	Microsoft SystemCenter

FUJITSU Integrated System PRIMEFLEX
Your Fast Track to Data Center Infrastructures

FUJITSU Integrated System PRIMEFLEX is a pre-integrated and pre-tested combination of servers, storage, network connectivity and software. PRIMEFLEX includes both 'ready to run' systems which are pre-installed at the factory, and customizable reference architectures. This reduces complexity, project time, risk and cost, while increasing operational efficiency. Flexible services options such as consulting, design, on-site deployment, integration into existing environments, migration services and overall support delivered by Fujitsu or its partners enable worry-free operation. Pay-as-you go financing options are also available. FUJITSU Integrated System PRIMEFLEX addresses business-critical use cases, such as virtualization and cloud, analytics including Big Data, High-Performance Computing and Artificial Intelligence, as well as SAP environments.

Virtualization and Cloud

PRIMEFLEX for Micsosoft Azure Stack

PRIMEFLEX for Microsoft Azure Stack is an integrated system that brings the agility and fast-paced innovation of Microsoft's Azure cloud to your on-premises data center.

Compute:	PRIMERGY RX
Network:	Fujitsu PSWITCH
Software:	Microsoft Azure stack
Optional:	Microsoft Azure Services
Management:	Fujitsu ISM

PRIMEFLEX for OpenStack

OpenStack cloud infrastructure based on either the Red Hat or SUSE OpenStack platform. It includes a range of pre-defined configurations and a broad choice of validated software extensions taking into account different customer engagement levels and varying use cases.

Compute:	PRIMERGY RX / CX
Storage:	ETERNUS, NetApp
Network:	Extreme Networks, Cisco
Software:	Red Hat OpenStack Platform, SUSE OpenStack Cloud

NFLEX

Converged system for deploying a classical VMware vSphere based infrastructure with external storage systems from NetApp. It includes multiple configurations varying in size - from 2 to 12 servers, scalable to 64 servers.

Compute:	PRIMERGY CX	**Software:**	VMware vSphere
Storage:	NetApp AFF / FAS		
Network:	Extreme Networks		
Optional:	Broadcom		

NFLEX for SAP Environments

NFLEX for SAP Environments
Optimized to manage SAP installations -- from SAP Business Suite to SAP S/4HANA® and SAP BW/4HANA deployments -- the pre-configured data center infrastructure is handed over on Windows and Linux operating systems. NFLEX for SAP Environments is fully scalable, making it suitable for entry-level SAP installations in small- and medium-sized organizations.

Compute:	PRIMERGY CX	**Software:**	VMware vSphere
Storage:	NetApp AFF / FAS		
Network:	Extreme Networks		
Optional:	Broadcom		

FUJITSU Integrated System PRIMEFLEX
Addressing our customers' needs

SAP

PRIMEFLEX for SAP HANA

SAP-validated infrastructure solution for the SAP HANA® software. It is based on Fujitsu PRIMERGY and PRIMEQUEST servers optimized for in-memory technology. The complementary on-site services ensure a fast and non-disruptive implementation and operation at the customer site.

Compute:	PRIMERGY / PRIMEQUEST
Storage:	ETERNUS / NetApp / TDI support (opt. for single-node)
Network:	Broadcom, Cisco (multi-node only)
Software:	SUSE or Red Hat Linux / Optional: VMware vSphere

PRIMEFLEX for SAP Landscapes

Powered by FlexFrame Orchestrator management software, the set-up of infrastructures optimized for SAP applications and databases is simplified and a more effective operation enabled. The pre-defined, pre-integrated and pre-tested combination of servers, storage, network connectivity and software ensure highest quality and fast time to value.

Compute:	PRIMERGY / PRIMEQUEST
Storage:	NetApp for shared image; ETERNUS / NetApp for database
Network:	Cisco
Software:	FUJITSU FlexFrame Orchestrator, SUSE Linux
Optional:	VMware vSphere, extension packs (e.g. from LNW Soft)

Analytics

PRIMEFLEX for Hadoop

Powerful and scalable platform for extracting large volumes of data from diverse sources, and analyzing them to get meaningful business-relevant information. The integrated system combines the convenience of pre-configured and pre-tested hardware and the economic advantages of open source software.

Compute / Storage:	PRIMERGY RX / CX
Network:	Extreme Networks
Software:	Cloudera, Hortonworks, MapR, Datameer®

HPC

PRIMEFLEX for HPC

Validated HPC cluster solutions optimized for specific industries and ISV applications. With Fujitsu's investment in the area of AI and deep learning, the integrated system also provides reference models on workloads across traditional simulation to data analytics and AI.

Compute:	PRIMERGY CX, RX; Head node PRIMERGY RX
Storage:	ETERNUS DX / AF
Network:	InfiniBand, Interconnect Intel® Omni-Path
Software:	Fujitsu HPC Software stack, FUJITSU Software Gateway
Optional:	FEFS (FUJITSU Exabyte File System)

Storage unchained

FUJITSU ETERNUS Storage

Storage Unchained — Watch now!

Transform with Flash — Watch now!

FUJITSU Storage Products
ETERNUS: Business-Centric Storage

In the storage area you can rely on a well synchronized portfolio – Business-Centric storage at its best from a single provider with more than 50 years experience in storage. Fujitsu provides ETERNUS AF all-flash and ETERNUS DX hybrid storage systems, ETERNUS LT tape libraries and ETERNUS CS data protection appliances, which allow customers to flexibly manage their increasing data volumes at less costs of growth, to benefit from a very reliable architecture as well from radically simplified operation.

FUJITSU Storage

All-flash and Hybrid Storage Systems

Combining leading performance architecture with automated quality of service management the ETERNUS AF and ETERNUS DX systems provide powerful features for digital growth, efficiency and continuity.

Data Protection Appliances

ETERNUS CS200c is an appliance with integrated backup software, ETERNUS CS800 offers deduplication for cost-efficient backup-to-disk and ETERNUS CS8000 provides enterprises with complete consolidation of backup and archiving infrastructures.

Tape Storage Systems

The affordable ETERNUS LT tape systems offer impressive scalability and reliability. They meet SMB requirements and are certified for market-leading backup and archiving software.

FUJITSU Storage ETERNUS

ETERNUS AF/DX Family

Leading performance increases system utilization and consolidation resulting in a faster ROI

ETERNUS CS Family

ETERNUS CS data protection appliances radically simplify backup and archive infrastructures by aligning storage resources with business priorities.

ETERNUS LT Family

Highly automated, simple and remote operation without any demand for local expert skills

FUJITSU ETERNUS Storage
Online storage made easy

■ CELVIN NAS server

Specifications		Product	Max. capacity	Host interfaces	Functions
Rack	No	QE705/QE805	12/24 TB	Ethernet (1Gbit/s) / USB 3.0 / USB 2.0 / eSATA (depending on selcted product)	VMware, Citrix, Hyper-V virtualization; FTP, file, web, printer, SQL and multimedia server; Remote access and system management, snapshots, App center
		Q805	24 TB		
		Q905	36 TB		
	Yes	QR802	24 TB		

■ ETERNUS AF all-flash arrays

Specifications	Product	Host interfaces	Functions
Number of Drives			
max. 48, 1475 TB raw / 7375 TB effective*	AF250	8 x FC 32G / 8 x FC 16G / 8 x iSCSI 10G	All-in FlashPack (Configuration, Management and Administration, Local and Remote Copy, Automated Quality of Service, Deduplication and/or Compression)
max. 192, 5898 TB raw / 29491 TB effective*	AF650	16 x FC 32G / 32 x FC 16G / 16 x iSCSI 10G	

■ ETERNUS DX hybrid storage systems

Specifications			Product	Host interfaces	Functions
None	Connectivity / Scalability	max. 4 host ports/ 96 drives (576 TB)	DX60	8 / 16 Gbps FC, 1 / 10 Gbps iSCSI, 6 / 12 Gbps SAS	RAID Protection and Redundancy; ETERNUS SF Management Software offers Local Advanced Copy, Thin Provisioning
Remote		max. 16 host ports/ 144 drives (4424 TB SSD 1728 TB HDD)	DX100	8 / 16 / 32 Gbps FC, 1 / 10 Gbps iSCSI, 12 Gbps SAS,1 / 10 Gbps Ethernet	RAID Protection, Encryption and Redundancy; ETERNUS SF Management Software offering Local Advanced Copy, Transparent Failover, Automated Storage Tiering, Automated Quality-of-Service, Thin Provisioning, Deduplication and/or compression on volume base
Required	Connectivity / Scalability	max. 16 host ports/ 264 drives (8110 TB SSD 3168 TB HDD)	DX200	8 / 16 / 32 Gbps FC, 1 / 10 Gbps iSCSI, 12 Gbps SAS, 1 / 10 Gbps Ethernet	
		max. 16 host ports/ 528 drives (16220 TB SSD 6336 TB HDD)	DX500	8 / 16 / 32 Gbps FC, 10 Gbps FCoE, 1 / 10 Gbps iSCSI, 1 / 10 Gbps Ethernet	
		max. 32 host ports/ 1056 drives (32440 TB SSD 12672 TB HDD)	DX600	8 / 16 / 32 Gbps FC, 10 Gbps FCoE, 1 / 10 Gbps iSCSI, 1 / 10 Gbps Ethernet	
		max. 384 host ports/ 6912 drives (141558 TB SSD 80064 TB HDD	DX8900	8 / 16 / 32 Gbps FC,1 / 10 Gbps iSCSI	

* Calculation based on deduplication/compression factor of five

FUJITSU ETERNUS Storage
Online storage made easy

	Description	ETERNUS SF at a glance
ETERNUS SF – Flexible Data Management	The ETERNUS SF storage management software is the uniform management solution for the entire ETERNUS AF and ETERNUS DX series. All essential operations for storage resource management, monitoring, reporting, tiered storage, performance management, disaster resilience and business continuity are integrated. The uniform management for the entire storage infrastructure covers all ETERNUS AF all-flash and ETERNUS DX hybrid storage systems from entry-level through the enterprise as well as virtualized server infrastructures.	■ Management of all infrastructure devices based on a unified view ■ Visualization of the relations between storage, network and physical servers or virtual servers ■ Early detection and elimination of performance issues through performance monitoring ■ Reduced initial system infrastructure through thin provisioning ■ Support for incident management Hardware investment optimization through automated storage tiering ■ Reduced storage system power consumption ■ Central management for local and remote replication ■ Enhanced business continuity with transparent failover ■ Automated Quality-of-Service management

	Description	At a glance	Host Connectivity Options	Software Version	Hardware Architecture	Basic Configuration
ETERNUS CD10000 Hyper-scale storage appliance	The FUJITSU Storage ETERNUS CD10000 enables you to take care of extreme data growth yourself – and with ease. This hyperscale, software-defined architecture is designed for all environments with huge online data volumes and offers almost unlimited scalability at consistently high levels of performance.	■ Nearly unlimited and flexible scalability of capacity and performance ■ Fault tolerance and self-healing by design ■ Based on Ceph Open Source storage software ■ Supports object, file and block storage ■ High performance through high parallelism of read and write operations	Unified: Block, File and Object	Based on Open Source Ceph storage software	Standard PRIMERGY server and network components	4x Basic node +1x Management node

FUJITSU ETERNUS Storage
Data Protection made easy

ETERNUS CS200c Integrated Backup Appliance

Specifications		Product	Description	Data Protection Functions
Usable capacity	8 TB	CS200c ECO	All-in-one backup appliance provides small and midsized environments with a customizable, self-contained solution for professional backup	Backup & recovery, deduplication, compression, encryption, archiving, application support, snapshot, replication, tape and cloud backup
	16, 24, 32, 48 TB	CS200c FLEX/ FLEXC		
	24 - 144 TB			

ETERNUS CS800 backup appliance

Specifications		Product	Key Feature	Data Protection Functions	Usability
Usable capacity after data reduction	8-24 TB	CS800 Entry/Flex	Deduplication	Disk-based backup and recovery, replication, path-to-tape, multiprotocoll support (NAS, VTL, OST), backup target in the cloud	Easy setup in just a few steps, automated operation, simple user interface for maintenance and analytics
	16-280 TB				
	16-640 TB	CS800 Scale			

ETERNUS CS8000

Datacenter storage solution for backup and archive automation

Specifications			Product	Backup	Archive / second-tier files
Architecture type	branch-office 14 TB, up to 1.4 TB/h		CS8050	VTL, VTL with Dedup (FC 32 GB) Virtual tape drives: 32 / Back-end tape support	(no NAS protocol)
	scale-up 19 TB - 6 PB, up to 30 TB/h		CS8200		
	Cache mirror	single-site	CS8400 / CS8800	Host connectivity: VTL, VTL with Dedup (FC 16 Gb / FICON 8 Gb); Virtual tape drives: 32 – 64 (CS8200) / 32 – 5208 (CS8400, CS8800); Back-end tape support	Host connectivity: NAS (NFS / CIFS), 1GbE or 10GbE; Number of Files: 2 Billion; Back-end tape support with CS8400, CS8800
		split-site			
	scale-out 19 TB - 96 PB, up to 150 TB/h		CS8050 NAS	Archive/second-tier files: NAS (NFS, CIFS)	28 TB, 42 TB, 56 TB, 70 TB

ETERNUS LT tape storage systems

Specifications		Product	Interface	Max. drives	Description
No of slots / max. capacity (native)	8 slots / up to 96 TB	LT20 S2	SAS or FC	1	LTO 6/ LTO 7/ LTO 8 drive with 20 TB (LTO-6) or 48 TB (LTO-7) or 96 TB (LTO 8) capacity native
	20 - 280 slots/ up to 3360 TB	LT140	SAS or FC	21	LTO 6/ LTO 7/ LTO 8 drive with 700 TB (LTO-6) or 1680 TB (LTO-7) or 3360 TB (LTO 8) capacity native
	80 – 560 slots / up to 6720 TB	LT260	SAS or FC	42	LTO 6/ LTO 7/ LTO 8 with 1400 TB (LTO-6) or 3360 TB (LTO-7) or 6720 TB (LTO 8) capacity native

The perfect interplay
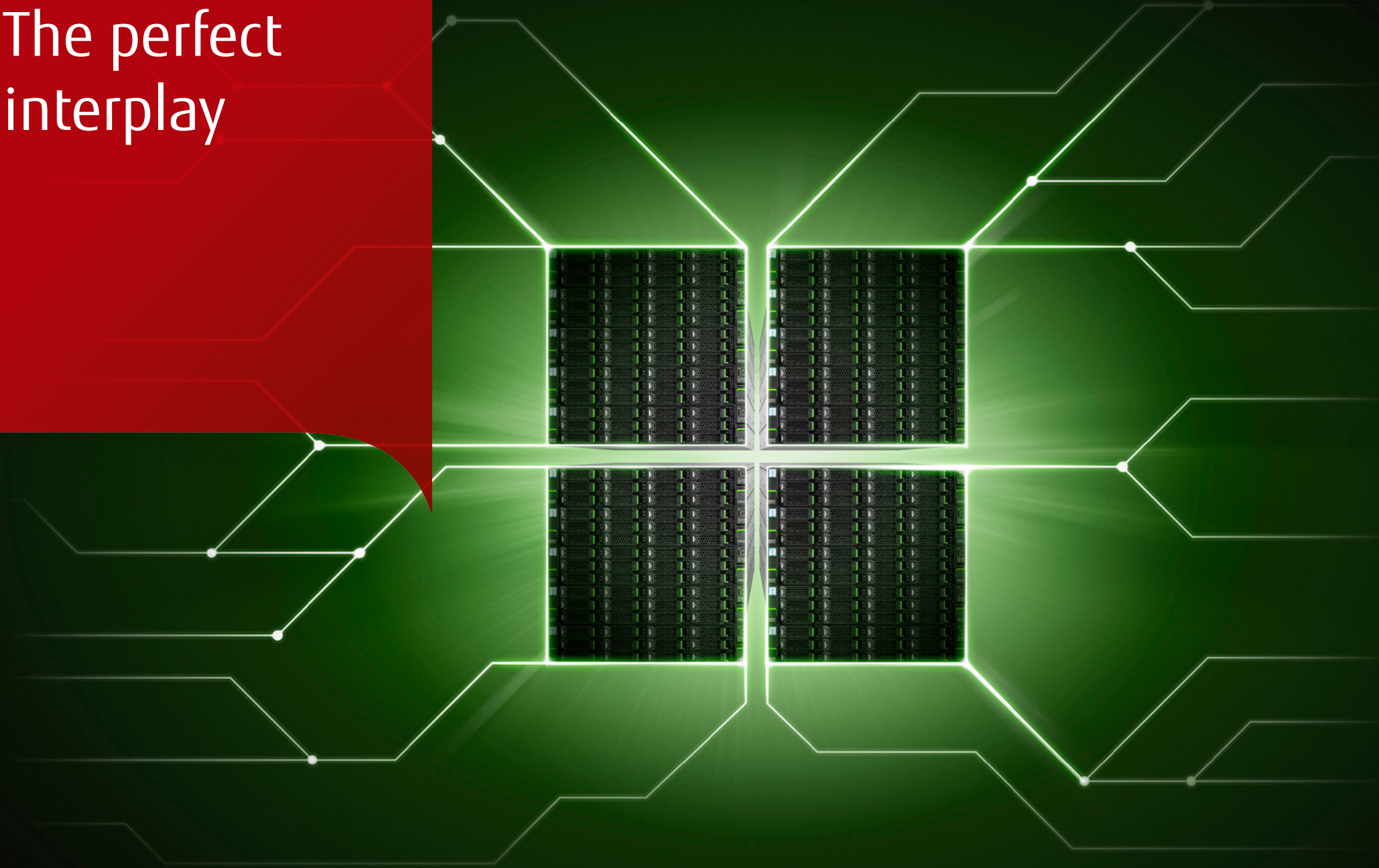
Windows Server

With the latest hardware and software, Windows Server 2019 prepares businesses for the future, helping them build sales, optimize operations, and stay protected with advanced security capabilities. The cloud-ready operating system provides the flexibility to connect on-premises hardware with Microsoft Azure and begin to move to the cloud when it fits the business needs.

Specifications			Products	Licensed Guest OS	Product details	Client Access Licenses required?	Ordercodes / Comments

■ Windows Server 2019 Operating Systems

- No → 2 CPU → **Windows Server 2019 Essentials** | 1 | CPU based, supports two sockets, 64 GB RAM and up to 25 users, incl. Hyper-V | CAL > No RDS > Yes |

- Core-based licensing → Yes
  - 2 cores → **Windows Server 2019 Standard** | 2 | Core licensing, Supports 24 TB RAM, supports 1024 active virtual machines, 2 Hyper-V Container, Host Guradian Services, Nano Server, Remote Desktop Services, Just Enough Administration, Nested Virtualization and more | CAL > Yes RDS > Yes |
  - 4 cores → **Windows Server 2019 Standard** | | | CAL > Yes RDS > Yes |
  - 16 cores → **Windows Server 2019 Standard** | | | CAL > Yes RDS > Yes |
  - 2 cores → **Windows Server 2019 Datacenter** | unlimited | Core licensing, Supports 24 TB RAM, supports 1024 active virtual machines, unlimited Hyper-V Container, full featured edition | CAL > Yes RDS > Yes |
  - 4 cores → **Windows Server 2019 Datacenter** | | | CAL > Yes RDS > Yes |
  - 16 cores → **Windows Server 2019 Datacenter** | | | CAL > Yes RDS > Yes |

■ Downgrade DG/DE Media Kit

- Windows Server 2019 → Max. one of each edition → **Windows Server 2016** | – | Datacenter only to Datacenter and/or Standard, Standard only to Standard | – |

FUJITSU Server PRIMERGY and Windows Server

	OEM	ROK	TX1310 M3	TX1320 M4	TX1330 M4	TX2550 M4	RX1330 M4	RX2520 M4	RX2530 M4	RX2540 M4	RX4770 M4	CX2550 M4	CX2560 M4	PQ 3400E	PQ 3800E	PQ 3800B
Windows Server 2019 Standard	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Windows Server 2019 Essentials	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓			
Windows Server 2019 Datacenter	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Microsoft

Windows Server:
The operating system that bridges on-premises and cloud.

How Fujitsu helps you to keep verything run smoothly

Management, Maintenance, Support

FUJITSU Software
Infrastructure Management and Server Management

Fujitsu offers comprehensive infrastructure management and server management solution which is key to efficient data center operations. It provides all the functions for flexible and automated 24x7 IT operations and improves end-user productivity via intelligent and innovative system management solutions.

FUJITSU Software Infrastructure Manager

FUJITSU Software Infrastructure Manager (ISM) enables organizations to drive towards the path of achieving software defined infrastructure, by automating and simplifying infrastructure operations across compute, storage and networking.
Product highlights include:

1. Converged management: Simplified IT operations and consistent management across server, storage and networking

2. Increased agility: Intuitive software providing actionable insights leading to reduced customer response time

3. Accelerate growth and innovation: Streamlined delivery of IT services to speed the transition to hybrid cloud

FUJITSU Software ServerView Infrastructure Manager is now available with the PRIMERGY CX400 M4 multi-node offering. CX400 M4 with top of the rack switch PSWITCH 2048 managed by ISM is one of the ideal transition paths for Blade server customers.

Designed the way people work, ISM provides an integrated view and centralized control over heterogeneous environment.

Dynamize IT –
Simple, sophisticated, efficient

- Converged Management
- Virtual-IO Management
- Network topology Management
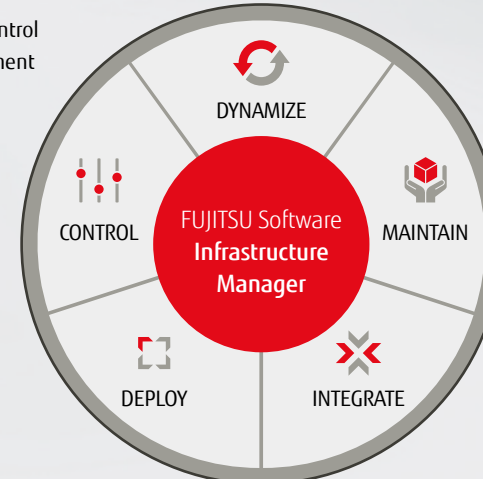
Control IT –
Centralized, easy, efficient

- Node Management
- Health status Monitoring a Control
- Capacity / Threshold Management
- Power Management

Mantain IT –
in any state, at any place

- Remote Management
- Update Management
- Logging and Auditing

Deploy IT –
Fast, easy, reliable

- Automate device configuration
- Mass OS installation

Integrate IT –
Seamless, manage, uniformly

- in Enterprise Management
- in vendor specific Management
- Monitor 3rd party platforms

More information on ISM: http://www.fujitsu.com/infrastructuremanagement

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Infrastructure Management and Server Management

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FUJITSU Software Infrastructure Manager

Deploy: Fast, easy, reliable

Server Setup and Deployment
- Installation Manager
- Scripting Toolkit

Dynamize: Simple, sophisticated, efficient

Private Cloud Infrastructure
- Resource Orchestrator Cloud Edition

Consolidated Server Infrastructures
- Resource Orchestrator Virtual Edition

I/O Management
- Virtual-IO Manager

Control: Centralized, easy, efficient

Server Monitoring and Control
- Operations Manager
- Agents / CIM Providers
- System Monitor
- Agentless Service
- Event Manager
- RAID Manager

Capacity Management
- Threshold Manager

Power Management
- Power Monitor
- Power Consumption Management (in iRMC)

Storage Support
- Storage Management
- Monitoring / Events

Integrate: Seamless, manage uniformly

Uniformed Management
- Fujitsu ManageNow® solutions

ServerView Integration Packs
- Microsoft SCOM
- Microsoft SCCM
- Microsoft SC VMM

- Microsoft SC PRO Packs
- VMware vCenter
- VMware vRealize
- Nagios
- Icinga
- HP Systems Insight Manager

Maintain: In any state, at any place

Remote Management
- integr. Remote Management
- Controller (iRMC)
- iRMC Advanced Pack
- Management Blade
- Support Gateway / AutoCall

Embedded Lifecycle Management
- eLCM Activation License

Update Management
- Update Manager (SVUM)
- Update DVD / SVUM Express
- Content Collector

Performance Measurement
- Performance Manager

Investigation
- Asset Mgmt. / PrimeCollect

Inspection
- Online Diagnostics / CSS

More information on ISM: http://www.fujitsu.com/infrastructuremanagement

Product Related Services
Maintenance & Support for Fujitsu Products

Requirements	Product	Product details	Functions	Ordercodes / Comments

■ Support Pack / ServiceContract

Availability may vary from country to country.

Server & Storage availability

High — Recovery time
- 4 hours (24x7): **Onsite services 24x7 with recovery time of 4 hours**
- NBD (9x5): **Onsite services 9x5 with recovery the NBD**

Medium — Onsite Response Time (SLAs are globally available)
- 4 hours (24x7): **Onsite services 24x7 with response time of 4 hours**
- 4 hours (9x5): **Onsite services 9x5 with response within 4 hours**
- NBD (9x5): **Onsite services 9x5 with response the NBD**

Low — **Warranty prolongation**

Recovery Time: The hardware recovery time is the time in which a service engineer usually recovers the operational readiness of the hardware. The recovery time refers to the time (within the agreed service time) between the call acceptance and the recovery of the operational readiness. Recovery time excludes the time to recover any data on hard disks and installation of any software and OS.

Onsite Response Time: If an incident cannot be solved remotely, the on-site response time refers to the time between call acceptance and the arrival of a service engineer with the diagnosed spare part, repair starts after arrival at the customer location. Specific requirements with regards to coverage area and response times are subject to local conditions.

Warranty: The Warranty is based on a voluntary obligation of Fujitsu as the manufacturer to the initial purchasers of new devices.The standard warranty period included in the product depends on the product class. For its extension, an respective service option has to be acquired.

Fujitsu delivers Maintenance and Support Services through certified support engineers for x86 servers, ETERNUS storage systems and software: From installing new products to providing fast and uncomplicated support for hardware, software and infrastructures. With the right mix of Maintenance and Support Services, Fujitsu enables the early planning for the availability of IT systems required for state-of-the art business operation. IT staff can concentrate on its core business.

For more information about our Product Related Services please visit:
http://www.fujitsu.com/fts/products/computing/support/

Financing is the key component of your IT investment decision. Fujitsu Financial Services helps you acquire tomorrow's technology today. With our unique and tailor made financial solutions we address shrinking budgets, transfer technology risk and disperse financial risk. We give you a peace of mind, leaving you to concentrate on your core business.

For more information on our range of financial solutions please visit:
www.fujitsu.com/fts/financialservices