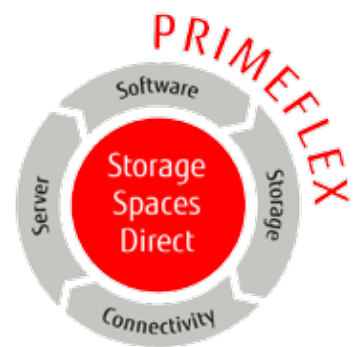


Fast track to your Microsoft hyper-converged IT infrastructure

FUJITSU Integrated System
PRIMEFLEX for Storage Spaces Direct



Hyper-converged infrastructures (HCI) are transforming the economics of IT. Unlike traditional infrastructures, HCI is software-defined, creating a next generation data center foundation that's even more cost-efficient, resilient, and adaptable to changing business scenarios.



It's no wonder that organizations are keen to take the next step. But the do-it-yourself approach to hyper-converged infrastructures is fraught with challenges. Fujitsu can provide an integrated system that speeds deployment of the core virtual infrastructure foundation for the data center: FUJITSU Integrated System PRIMEFLEX for Storage Spaces Direct.

PRIMEFLEX for Storage Spaces Direct is an integrated system that includes all the hardware and software to simplify procurement and deployment of a Microsoft-based hyper-converged IT infrastructure. It leverages high performance, energy-efficient FUJITSU PRIMERGY standard x86 servers and the software-defined server and storage technology integrated in Microsoft Windows Server 2016 to reduce complexity and TCO in data center infrastructure.

Learn more about PRIMEFLEX for Storage Spaces Direct:
www.fujitsu.com/primeflex/ms-s2d.html

The facts

- Deploy cluster in under 15 minutes
- 150k+ IOPS per server
- 2.4x greater storage efficiency
- Scale from 2 to 16 servers and 384 drives
- Mitigate risk with built-in resiliency
- Leverage Storage QoS controls with per-VM IOPS limits and health service
- Reduce cost with OS integrated compute and storage virtualization licences

shaping tomorrow with you

FUJITSU

Move to a more business-centric IT

As enterprises move to digital business processes, data center operations are challenged to provide a responsive IT infrastructure that satisfies the increasing demand for better service levels. PRIMEFLEX for Storage Spaces Direct delivers the speed, flexibility, reliability and scalability necessary to deploy a more business-centric IT that's aligned to future business needs.



Need for speed?

PRIMEFLEX for Storage Spaces Direct features a resource-efficient hypervisor-embedded design in combination with high speed flash disk devices and high-throughput, low-latency networking technology. You can therefore set up a high-performance, responsive virtual IT infrastructure that provides consistent IOPS with sub-millisecond response times. In all-flash or hybrid disk configurations, Storage Spaces Direct easily exceeds 150,000 IO operations (IOPS) per server.



Grow as you go

Scale your environment from just two hosts to 16, with 384 drives. To scale out, simply add drives or add more servers; Storage Spaces Direct will automatically onboard new drives and begin using them.



Simplify infrastructure setup

Once you have the servers mounted and cabled in a rack, Windows Server 2016 installed, and networking configured, you're looking at under 15 minutes to get the storage cluster configured.



Protect your business

Built-in resiliency handles drive, server, or component failures – delivering continuous availability. If hardware fails, just swap it out; the software heals itself, with no complicated management steps.



Simplify infrastructure management

No specialized skill or expensive training is required – perfect for environments such as remote or branch office locations with limited IT staff. Integrated storage quality of service controls keep overly busy VMs in check with minimum and maximum per-VM IOPS limits. The health service provides continuous built-in monitoring and alerting, and APIs make it easy to collect rich, cluster-wide performance and capacity metrics.



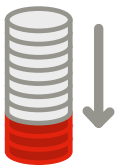
Improve storage efficiency

Unique innovations offer better space and performance trade-offs than classic RAID configurations. Erasure coding delivers up to 2.4x greater storage efficiency than 3-way mirroring.



Save floor space, power and cooling

The convergence of compute and storage resources in an industry-standard server reduces your infrastructure footprint, saves floor space, power and cooling expenses.



Reduce storage costs

PRIMEFLEX for Storage Spaces Direct uses local storage only. This reduces costs and eliminates the need for extra tools and training for managing complex external SAN infrastructures.



More time for value-added activity

Since server and storage management are consolidated, you can move valuable staff resources from infrastructure-related management tasks to activities that create business value.



Reduce compute and storage virtualization software licence costs

The Windows Server 2016 Data Center Edition licence that comes with PRIMEFLEX for Storage Spaces Direct already includes all rights to use the integrated server and storage virtualization functionality. There is no need to acquire additional licences for compute and storage virtualization software.

Fujitsu's experience in delivering Microsoft HCI

Based on the vast experience gained with PRIMEFLEX Cluster-in-a-Box, an integrated system based on Storage Spaces technology introduced in Windows Server 2012, FUJITSU is well positioned to successfully deliver your Microsoft hyper-converged infrastructure project.

→ Learn more about Microsoft HCI Solutions from Fujitsu:

www.fujitsu.com/primeflex/cluster-in-a-box.html

www.fujitsu.com/primeflex/ms-s2d.html

The benefits with PRIMEFLEX for Storage Spaces Direct



PRIMEFLEX for Storage Spaces Direct is fully tested and delivered on a high-performance and energy-efficient server platform for Microsoft Hyper-V cluster environments – FUJITSU Server PRIMERGY powered by Intel® Xeon® processors. As well as excellent virtualization performance, the servers deliver the best economics in terms of density, energy consumption, heat dissipation and operating costs. In addition, Fujitsu provides intelligent and innovative system management solutions providing all the functions for fail-safe, flexible and automated 24x7 server operations.

Support and financing

Fujitsu is your single point of contact for hardware and software. Fujitsu has introduced a unique solution identifier for PRIMEFLEX for Storage Spaces Direct that allows our support teams to make solution-level decisions when working with these sometimes complex systems. For example, this enables us to route support calls to specialized, solution aware support engineers making for easier support interactions with speedier resolution times. Fujitsu Financial Services can also offer you a complete portfolio of IT leasing and financing solutions, trade-in and buy-back options.

“The solution gives us excellent performance, reduces cost for storage, floor space, power and cooling. The flexible platform design allows us to serve both our SMB and enterprise customers and provides us with the investment protection for future growth.”

Adam Lantz
Sales Director, Make IT



	RX2540 M2 2.5"	RX2540 M2 3.5"
Server	FUJITSU Server PRIMERGY RX2540 M2 (2.5 or 3.5 inch)	
CPU	2x Intel® Xeon® Processor E5 v4 family (12 core)	
Memory	16x 32 GB	
Storage	3-tier (20,4TB raw capacity) 2x 800GB NVMe + 3x 800GB SSD + 9x 2TB HDD	2-tier (54TB raw capacity) 3x 800GB SSD + 9x 6TB HDD
Network	2x 10 GBit	
Microsoft Software	Windows Server 2016 (Data Center Edition), System Center 2016 (option)	
Scalability	2 - 16 nodes / 25 - 800 VMs*	

*Commercially reasonable recommendations. Technically lower and greater numbers of VMs may be achieved.

- Your advantages**
- Faster time to production for your virtual infrastructure
 - Easy to order, deploy, operate and scale
 - High performance, availability and efficiency
 - Grow as you go with no large upfront investments
 - Reduce storage costs, save floor space, power and cooling expenses
 - Solution-level support with single point of contact for the complete hardware and software stack.

Learn more about integrated systems from Fujitsu:

→ www.fujitsu.com/primeflex

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