

# Work like cloud with Windows Server HCI

FUJITSU



## PRIMEFLEX for Microsoft Storage Spaces Direct

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



It's no wonder that organizations are keen to take the next step. However, the do-it-yourself approach to hyper-converged infrastructures is fraught with challenges. Fujitsu can provide an integrated system that speeds deployment of a private cloud infrastructure in your data center:  
**Fujitsu Integrated System PRIMEFLEX for Microsoft Storage Spaces Direct.**

Fujitsu Integrated System PRIMEFLEX for Microsoft Storage Spaces Direct is a pre-configured and pre-tested integrated system, providing IT organizations with the easiest way to deploy a hyper-converged IT infrastructure based on in Windows Server 2022, the cloud-ready operating system that boosts on-premises investments with hybrid capabilities. In combination with a standardized implementation and infrastructure support service, PRIMEFLEX for Microsoft Storage Space Direct dramatically simplifies the complete life cycle of a Windows Server-based hyper-converged IT infrastructure – from deployment, to operation and maintenance. With Azure hybrid services integrated in Windows Admin Center, organizations easily connect their on-premises deployment to the cloud.

### Your advantages:

- Achieve 150k+ IOPS per server with sub-millisecond latency
- Scale from 2 to 16 servers and up to 4 PB of raw storage
- Get 10x more usable storage for free with deduplication and compression
- Reduce storage TCO by up to 50%
- Simplify path to hybrid IT

Learn more about PRIMEFLEX for Microsoft Storage Spaces Direct:

[www.fujitsu.com/global/pf4s2d](http://www.fujitsu.com/global/pf4s2d)



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### Need for speed?

PRIMEFLEX for Microsoft 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.



### Dynamically adapt resources to business needs

Scale-out or scale-in seamlessly as the needs of your organizations change. To scale out, simply add drives or add more servers (up to 16); Storage Spaces Direct will automatically onboard new drives and begin using them. Windows Server 2019 now supports clusters with up to 4 PB, which is great for media, backup, and archival use cases. To scale-in and remove a server from a cluster, Storage Spaces Direct automatically redistributes data on to the drives of the remaining server nodes.



### 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. In order to increase resiliency at the edge, Windows Server 2019 introduced nested resiliency for a two-node cluster to provide continuously accessible storage for apps and virtual machines even if one server node goes down and a drive fails in the other server node.



### Simplify management

Manage and monitor Microsoft HCI environment with the new purpose-built management tool for Windows Server – Windows Admin Center. No specialized skill or expensive training is required – perfect for environments such as edge, remote or branch office locations with limited IT staff. Once you have the servers mounted and cabled in a rack, Windows Server installed, and networking configured, you're looking at under 15 minutes to get the storage cluster configured.



### Improve storage efficiency

Get up to 10 times more usable storage for free with deduplication and compression support in Windows Server 2019. Enjoy 2 times better performance in mirror-accelerated parity, a storage configuration to get the best of both – fast write performance and better capacity efficiency than mirroring alone.



### Reduce storage costs

PRIMEFLEX for Microsoft Storage Spaces Direct uses local storage only. This reduces storage TCO by up to 50% and eliminates the need for extra tools and training for managing complex external SAN infrastructures.



### Reduce virtualization software licence costs

The Windows Server 2022 Datacenter licence that comes with PRIMEFLEX for Microsoft 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.



### 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.



### Simplify path to hybrid IT

Seamlessly connect to Azure cloud to extend your on-premises deployment to a hybrid cloud solution. With the Azure hybrid services in Windows Admin Center, you easily start using the cloud for your hyper-converged infrastructure management, including Azure Backup and Site Recovery, Azure File Sync, Azure Monitor and Azure Update Management.



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# The benefits with PRIMEFLEX for Microsoft Storage Spaces Direct



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## Fujitsu Implementation Services

To enable a fast time to production of your PRIMEFLEX for Microsoft Storage Spaces Direct solution, Fujitsu offers a standardized ImplementationPack with a single order code and price tag covering the creation of a low-level design, the installation including all hardware and software components, the option to deploy workloads provided by the customer, and the handover of all documentation upon successful completion of the project. The new PRIMEFLEX Implementation Desk along with the easy-to-use web-based PRIMEFLEX Deployment Portal makes infrastructure deployment faster, more reliable and secure. Experience from many successful project implementations clearly shows that a well-executed and documented implementation is an important pre-requisite for delivering high-quality infrastructure support services and ultimately for improved customer satisfaction.

## Choice of delivery options

To ensure a smooth deployment and easy maintenance of your integrated system, PRIMEFLEX for Microsoft Storage Spaces Direct includes a mandatory on-site implementation service and an infrastructure solution support service that provides a single point of contact for support for the complete technology stack. Companies who have sufficient resources in their IT department to deploy and maintain the IT infrastructure on their own, can choose the PRIMEFLEX Essentials option without an implementation service and solution support. The choice is yours – simply select the delivery option you need.

## Fujitsu Infrastructure Support

Fujitsu is your single point of contact for PRIMEFLEX for Microsoft Storage Spaces Direct. With the Fujitsu SolutionPacks, Fujitsu provides a standardized infrastructure solution support offering that goes beyond just support for single hardware and software components. It covers also the dependencies between the individual components of the technology stack. A unique solution identifier for PRIMEFLEX for Microsoft Storage Spaces Direct 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 Solutions

Fujitsu offers a complete range of financing solutions, such as IT leasing, trade-in, buy back or even cloud-like financing models. With Fujitsu uSCALE, the pay-per-use consumption model is no longer a domain of the cloud. Fujitsu is now helping organizations to achieve pay-per-use agility across their entire IT landscape, including their on-premises data center.



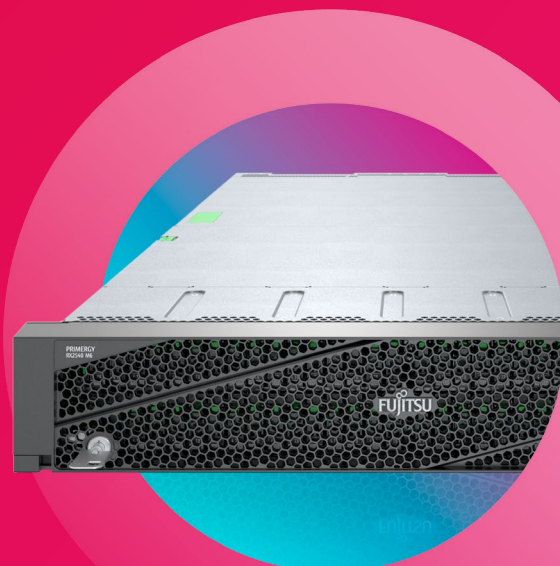
# PRIMEFLEX

Implementation  
Services

Infrastructure  
Support



PRIMEFLEX Essentials\*



\*Certified hardware & software including component support

Learn more about PRIMEFLEX for Microsoft Storage Spaces Direct from Fujitsu:  
[www.fujitsu.com/global/pf4s2d](http://www.fujitsu.com/global/pf4s2d)

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