

# FUJITSU Integrated System

FUJITSU



PRIMEFLEX for Microsoft Storage Spaces Direct  
Hyper Converged Infrastructure

shaping tomorrow with you

# Fujitsu's Hyper Converged Infrastructure simplifies your ICT

## FUJITSU Integrated System PRIMEFLEX for Microsoft Storage Spaces Direct

### Fujitsu proposes a new style of infrastructure

ICT infrastructure plays important role to support business strategy. The system is expanding its complications everyday and increases costs to maintain infrastructure and operations.

FUJITSU Integrated System PRIMEFLEX for Microsoft Storage Spaces Direct integrates storage into server with Software Defined Storage technology. Fujitsu original software 'ServerView Infrastructure Manager for PRIMEFLEX' (ISM for PRIMEFLEX) simplifies implementation, operation and expansion process.

The simple and easy next generation platform will provide easy and flexible infrastructure operation to optimize your investment.

#### »» Reliable and speedy implementation

Implement designed and pre-set system. High quality one-stop support system after implementation

- **Largely reduced setup works**

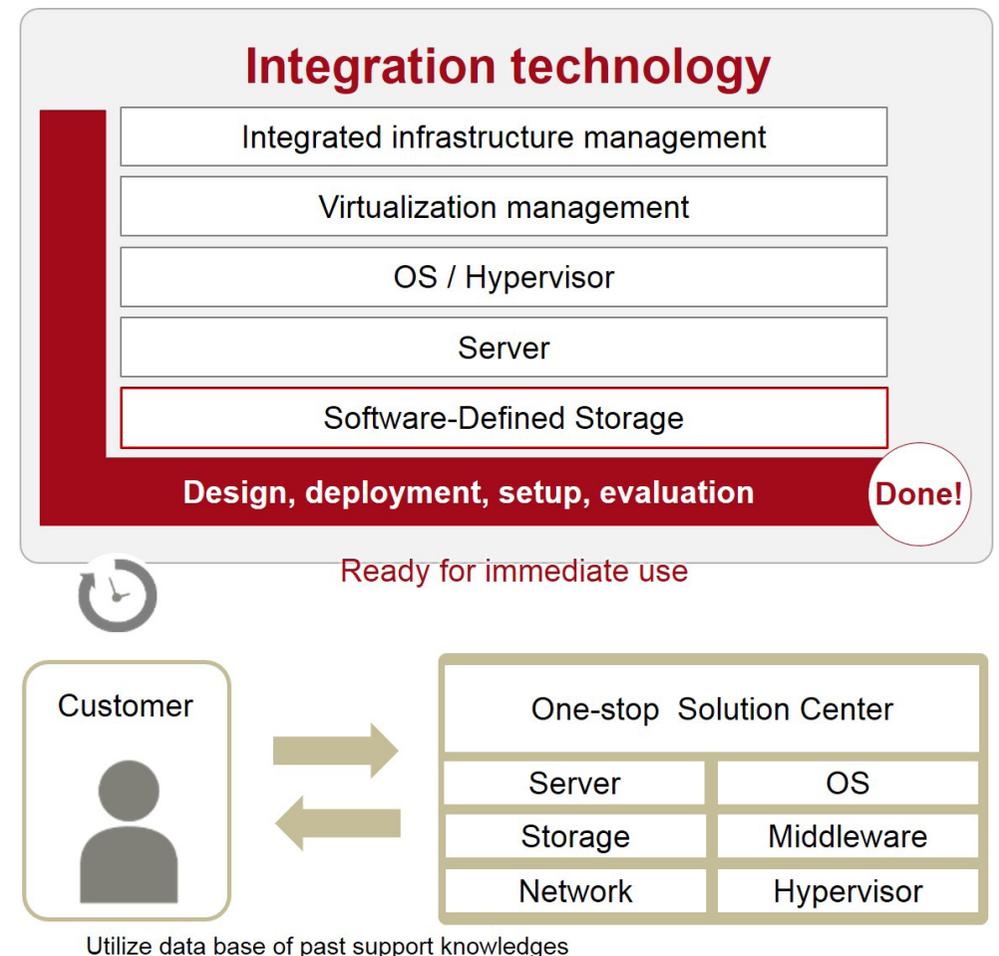
Verified virtualization infrastructure based on Fujitsu knowledge, it largely reduces workload of design process. Fujitsu customizes system to suit device specification for fast implementation.

- **Immediate use with factory setup service**

The PRIMEFLEX for Microsoft Storage Spaces Direct is setup in the factory with integration service before delivery. The PRIMEFLEX for Microsoft Storage Spaces Direct can be used immediately after turning on a system. It allows to start system operation immediately.

- **High quality support (Operation, maintenance service SupportDesk)**

Engineers at support center specialized in Hardware/Software technology support customer's various issues and reduces user workload.



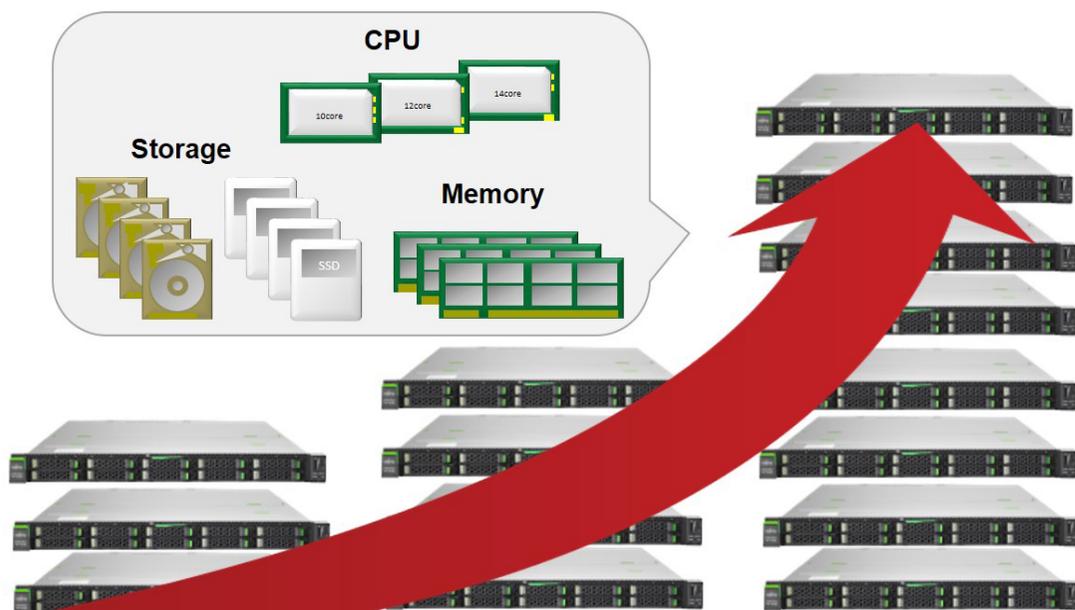
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## » Flexible and scalable

### Optimizing infrastructure investment

#### ■ Small start from minimum 2 nodes

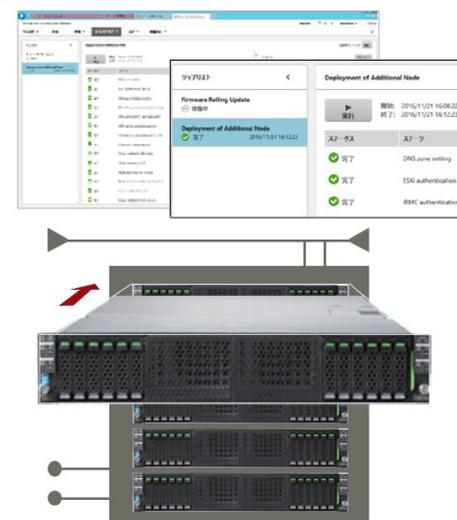
PRIMEFLEX for Microsoft Storage Spaces Direct can start small with as small as 2 nodes of simple configurations with server alone. It can start small and expand as it grows up to 16 nodes. System expansion with **CPU / memory / built-in storage units** can be done in addition to node unit when the resource is lacking due to the increased workload of systems and users.



#### ■ Simple and rapid expansion

Device expansion is simple and fast with integrated infrastructure operation management software's automated deployment tool. It **reduces 50% of the workload\*** compare to previous.

### 《Operation screen》



Easy automated deployment

Deployment template

Server recognition

Virtualization software installation

Register to management VM

SDS expansion

Complete

\* Calculated based on Fujitsu standard procedure. Reduction effect is not promised

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## Simple operation

### New infrastructure operation with dedicated software

'ISM for PRIMEFLEX', the dedicated software of PRIMEFLEX for Microsoft Storage Spaces Direct, provides intuitive visual, operation and varieties of automated features. It conserves energy of infrastructure deployment, operation and management.

#### Easy management screen

Unify device management with GUI for intuitive operation. Status monitoring such as inlet temperature and power consumption, device details can be unified managed.

Device location can check with 3D color screen. It has improved visibility with color warning when failure occurs. It helps to identify the failure locations.

#### Multiple features to reduce administrator's burden

Firmware optimization can be automated (rolling update) to reduce workload of administrator.

Unified collection of hardware and OS logs. It reduces management workload by collecting logs regularly.

### < Device information >



Status, humidity, power consumption display



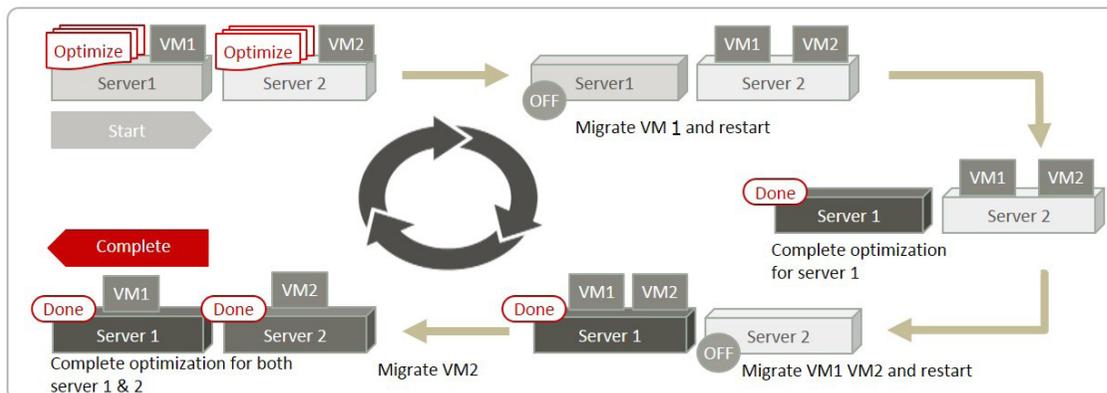
Unified management of device details

### < Virtual environment status check >



information such as total capacity, usage rate, types, version

### < Rolling update >



### < Collect log and manage >

ダウンロードファイル作成 (ノード別)

ノード名	モデル	IPアドレス	開始日	終了日	開始日	終了日	開始日	終了日	開始日	終了日
AI-es01	PRIMEFLEX ES2320 M1	192.168.170.11	11/15/2016	11/15/2016	11/15/2016	11/15/2016	11/15/2016	11/15/2016	11/15/2016	11/15/2016
AI-es02	PRIMEFLEX ES2320 M1	192.168.170.12	11/15/2016	11/15/2016	11/15/2016	11/15/2016	11/15/2016	11/15/2016	11/15/2016	11/15/2016
AI-es03	PRIMEFLEX ES2320 M1	192.168.170.13	11/15/2016	11/15/2016	11/15/2016	11/15/2016	11/15/2016	11/15/2016	11/15/2016	11/15/2016
AI-es04	PRIMEFLEX ES2320 M1	192.168.170.14	11/15/2016	11/15/2016	11/15/2016	11/15/2016	11/15/2016	11/15/2016	11/15/2016	11/15/2016

ダウンロードファイル管理 (ノード別)

Create log regularly  
Save  
Collect

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## >> Usage scene

### VDI infrastructure

#### PRIMEFLEX for Microsoft Storage Spaces Direct

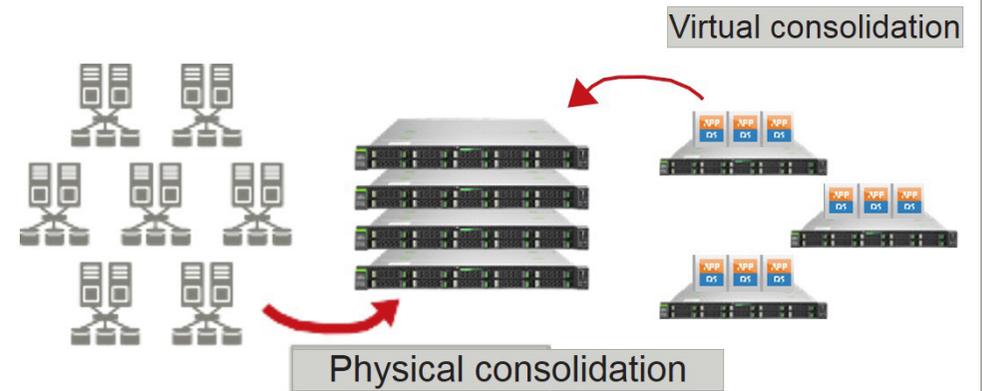
It can implement only server or start with minimum 2 nodes. It can implement as a test and scale out in a phased manner as the system grows



### Virtualization infrastructure

#### PRIMEFLEX for Microsoft Storage Spaces Direct

Existing system including storage can be consolidated to server. Dedicated software simplifies infrastructure operation management.



## Summary of specifications

Model		PRIMEFLEX for Microsoft Storage Spaces Direct		
Type		Base type	High performance/large capacity type	
Server model		PRIMERGY RX2530 M4	PRIMERGY RX2540 M4	
Number of nodes		2 - 16		
Node addition unit		1		
Height per node		1U	2U	
Hypervisor		Microsoft Windows Server 2016 (Datacenter)		
SDS		Microsoft Storage Spaces Direct		
Operation Management Software		ServerView Infrastructure Manager for PRIMEFLEX		
Number of VM	Server virtualization <sup>*1</sup> (per node)	Up to approx. 33VM	Up to approx. 125VM	
	VDI <sup>*2</sup> (per node)	Up to approx. 66VM	Up to approx. 198VM	
Server specification (per 1 node)	Number of processors		2	
	Processor		Intel Xeon Processor Scalable Family	
	Memory capacity		64 GB to 3,072 GB	
	Network interface		1000BASE-T × 3 10GBASE-T × 4	
	Storage capacity <sup>*4</sup>	SSD cache <sup>*3</sup>	800GB - 3.84TB	800GB - 12.8TB
		HDD data domain	2.4TB - 12TB	2.4TB - 40TB
Power		100V - 200V Power unit (800W/1,200 × 2		

\*1 Estimated amount per 1 VM with CPU: 1GHz, Memory: 4GB, HDD: 100GB allocation

\*2 Estimated amount per 1 VM with CPU: 630MHz, Memory: 4GB, HDD: 50GB(Linked clone) allocation

\*3 It is recommended to set the capacity of SSD cache to 10% or more of the HDD data domain

\*4 Physical capacity with SDD/HDD installation

- Functions implemented in products differ according to operation management software and model selected.
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