

# Data Sheet

## PRIMEFLEX for Microsoft Storage Spaces Direct ImplementationPack

Product Related Support for IT Hardware



### INTRODUCTION

Fujitsu offers a PRIMEFLEX for Microsoft Storage Spaces Direct ImplementationPack to simplify the deployment of a Microsoft based hyper-converged IT infrastructure.

The codes for PRIMEFLEX for Microsoft Storage Spaces Direct are hereinafter referred to as PF ASHC1 S2D . **The solution is based on Windows Server 2019.**

The PRIMEFLEX for Microsoft Storage Spaces Direct ImplementationPack delivers a standard pre-tested infrastructure design from a starting configuration of 3 nodes capable of being expanded in steps of 1 or more nodes up to the maximum total of 16 nodes.

Alternatively, there is an ImplementationPack for a 2 node Microsoft Storage Spaces Direct cluster. The 2 node Cluster cannot be expanded with additional nodes.

### BENEFITS

PRIMEFLEX for Microsoft Storage Spaces Direct architecture allows you to start small and then grow the physical environment to meet your actual needs while, in turn, also providing the ability to subsequently reduce the physical environment to save running costs or redeploy nodes elsewhere (subject to the minimum node count of 2). The PRIMEFLEX for Microsoft -Storage Spaces Direct ImplementationPack supports and underlines this flexibility.

### PRIMEFLEX FOR MICROSOFT Storage Spaces Direct IMPLEMENTATIONPACK

Fujitsu's PRIMEFLEX for Microsoft Storage Spaces Direct ImplementationPack comes in four variants;

- Base ImplementationPack that enables the operation of a new PRIMEFLEX for Microsoft Storage Spaces Direct cluster of up to three nodes implemented into your infrastructure.
- A Cluster Extension 1 Node ImplementationPack for the first additional node added to an existing cluster at a later date (system expansion).
- An Additional Node ImplementationPack which can be used to expand a Base ImplementationPack up to the number of nodes you wish to deploy at initial purchase time for additional compute and storage capability or to expand a Cluster Extension ImplementationPack up to the number of nodes you wish to deploy at a later date.
- An EdgeHCI 2 Nodes ImplementationPack (2-NODE-OPTIMIZED) must be utilized for the initial implementation of 2-NODE-OPTIMIZED S2D node configuration.

## ORDERING PRIMEFLEX FOR MICROSOFT STORAGE SPACES DIRECT IMPLEMENTATIONPACK

### PRIMEFLEX for ASHCI S2D Base 3 Nodes

**FSP:G-IM15100PRSER** SP SOL Imp PF ASHCI S2D Base 3  
Nodes

### PRIMEFLEX for ASHCI S2D Additional Node

**FSP:G-IM15200PRSER** SP SOL Imp PF ASHCI S2D Add.  
Node

### PRIMEFLEX for ASHCI S2D Cluster Extension 1 Node

**FSP:G-IM18900PRSER** SP SOL Imp PF ASHCI S2D  
ClusXT 1 Node

### PRIMEFLEX for ASHCI S2D Edge HCI 2 Nodes

**FSP:G-IM15300PRSER** SP SOL Imp PF ASHCI S2D  
EdgeHCI 2 Nod

# Service in detail

## OUR SERVICE OFFERING

The ImplementationPack for ASHCI S2D Base 3 Nodes and the ImplementationPack PRIMEFLEX for ASHCI S2D Edge/HCI 2 Nodes will deliver the following services.

- Customer Interview to capture the customer's requirements and network infrastructure.
- Hardware installation of the components into the customer's location.
  - PRIMERGY compute nodes
  - Network switches
- All in-rack power and network cabling.
- Configuration of all devices against the agreed network design.
- Installation and update of Windows Server 2019 Operating System.
- Installation of Hyper-V.
- Configuration of Windows Server features, cluster, network, Hyper-V.
- Installation of the ServerView agents.
- Installation of the Windows Admin Center.
- Full Acceptance test.
  - Acceptance testing
  - Resiliency testing
- Formal handover document with all relevant SW version details and settings along with default passwords employed (customer should update after handover with their own).
- Completion of Ready-4-Service Documentation.
- Online activation of Fujitsu SolutionPacks.

The ImplementationPack for ASHCI S2D Cluster Extension 1 Node delivers the following services:

- Hardware installation of the components into the customer's location.
- All in-rack power and network cabling.
- Configuration of all devices against the previously defined design.
- Installation and update of Windows Server.
- Installation of Hyper-V.
- Integration into the existing cluster.
- Full acceptance testing of the new host.
- Formal handover with updates to the Fujitsu Handover documentation.
- Completion of Ready-4-Service Documentation
- Online activation of Fujitsu SolutionPacks
- The ImplementationPack PRIMEFLEX for ASHCI S2D Additional Node expands the Base 3 Node, or the Cluster Extension 1 Node services to cover one additional node implemented at the same time.

## PRE-REQUISITES

- The required infrastructure (connections for the power supply, LAN, etc.) including the necessary building cabling, are to be provided by the customer in such a way that they can be connected to the system.
- Basic configuration parameters, such as IP addresses and host names are defined. The customer provides the appropriate license keys.
- The Ready-4-Service (R4S) workflow and related documentation ensure smooth hand over from the deployment to operation and

in addition configuration changes and updates during the service period. When the contract starts, service readiness of the Fujitsu Integrated System is verified by Fujitsu. Therefore, the customer is required to support Fujitsu as necessary, in particular in recording required system configuration and third party contract data at initial implementation.

- Delivery of implementation activities and ongoing support assumes that immediate remote access is available for Fujitsu. If the customer rejects setting up remote access, or it cannot be configured for other reasons, the services described can only be provided in a restricted manner and the contractual service levels cannot always be met.
- The Base ImplementationPack must be purchased with the PRIMEFLEX for Microsoft Storage Spaces Direct, latest 90 days thereafter.

## SERVICE DELIVERY

The packages are delivered (9x5, local business hours) service can be delivered outside of these times but will be subject to additional charges that can be quoted on request.

PRIMEFLEX provides both installation and implementation services in one package. Completion of on site installation tasks includes confirmation of remote access to enable implementation activities to be completed by central consultants.

## TRAVEL EXPENSES

Travel cost for hardware installation is included as standard. Implementation is assumed to be delivered remotely and, therefore, no travel costs are included in Implementation Pack pricing outside of DE, AT and CH. If a requirement dictates that implementation activities must be delivered on site then the associated costs will be charged additionally.

## OUT OF SCOPE

Any data migration services

## SERVICE APPLICABILITY

The ImplementationPack for ASHCI S2D Base 3 Nodes is only applicable to a new PRIMEFLEX for ASHCI S2D cluster and cannot be applied to grow an existing PRIMEFLEX for ASHCI S2D cluster.

The ImplementationPack PRIMEFLEX for ASHCI S2D Additional Node is used when a customer requires more than 3 nodes in a new cluster; or adds more than one node to an existing cluster at the same time.

The ImplementationPack for ASHCI S2D Cluster Extension 1 Node is only applicable to grow an existing PRIMEFLEX for ASHCI S2D cluster.

The ImplementationPack PRIMEFLEX for ASHCI S2D Edge/HCI 2 Nodes is only applicable to a new PRIMEFLEX for ASHCI S2D switchless cluster.

Example Scenario:

A customer purchasing a 3 node cluster as an initial PRIMEFLEX for ASHCI S2D solution requires:

1 x ImplementationPack PRIMEFLEX for ASHCI S2D Base 3 Nodes

A customer purchasing a 8 node cluster as an initial PRIMEFLEX for ASHCI S2D solution requires:

1 x ImplementationPack PRIMEFLEX for ASHCI S2D Base 3 Nodes

5 x ImplementationPack PRIMEFLEX for ASHCI S2D Additional Node

a customer adding one node to an existing for ASHCI S2D solution requires:

1 x ImplementationPack PRIMEFLEX for ASHCI S2D Cluster

Extension 1 Node

A customer adding three nodes to an existing PRIMEFLEX for ASHCI S2D solution requires:

1 x ImplementationPack PRIMEFLEX for ASHCI S2D Cluster

Extension 1 Node

2 x ImplementationPack for ASHCI S2D Additional Node

NB: There is a maximum node count of 16 nodes for each PRIMEFLEX for ASHCI S2D configuration. The 2 node switchless cluster is limited to just 2 nodes.

Besides this offering, Fujitsu can provide assistance and support with any other installation, implementation or integration on a separate contract. Please contact your local sales representatives for further details.

**LEGAL INFORMATION / GENERAL TERMS AND CONDITIONS**

The product, delivery and service features described above include a final list of the features of the subject of the contract and do not represent a guaranteed quality or declaration thereof in the eyes of the law.

In addition to this data sheet, the following general business terms and conditions of Fujitsu Technology Solutions in the respective local version apply (see <http://www.fujitsu.com/fts/support-local-terms>):

- "General Terms and Conditions for IT Integration Services, IMAC/D Services and other works and services subject to acceptance"

# More information

## Fujitsu products, solutions & services

### Products

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

In addition to the Fujitsu Support services, Fujitsu offers a full portfolio of other computing products.

### Computing products

- Storage systems: ETERNUS®
- Server: PRIMERGY®, PRIMEQUEST®, Fujitsu SPARC® M10, BS2000®/OSD Mainframe
- Client Computing Devices: LIFEBOOK®, STYLISTIC®, ESPRIMO®, FUTRO®, CELSIUS®
- Peripherals: Fujitsu Displays, Accessories
- Software
- Network

Product Support Services with different service levels agreements are recommended to safeguard each product and ensure smooth IT operation.

### Solutions

<http://www.fujitsu.com/global/solutions>

The Fujitsu solutions combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships. Fujitsu's Solutions include parts of one or more activity groups (e.g., planning, implementation, support, management, and training services) and are designed to solve a specific business need.

**Infrastructure Solutions** are customer offerings created by bringing Fujitsu's best products, services and technologies together with those from partners to deliver benefit to our customers' businesses.

**Industry Solutions** are tailored to meet the needs of specific verticals.

**Business and Technology Solutions** provide a variety of technologies developed to tackle specific business issues such as security and sustainability, across many verticals.

### Services

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

Several customizable Fujitsu Service offerings ensure that IT makes a real difference and delivers true business value. We do this by leveraging our extensive experience in managing large, complex, transformational IT programs to help clients in planning, delivering and operating IT services in a challenging and changing business environment.

**Application Services** support the development, integration, testing, deployment and on-going management of both custom developed and packaged applications. The services focus on delivering business and productivity improvements for organizations.

**Business Services** respond to the challenge of planning, delivering and operating IT in a complex and changing IT environment.

**Managed Infrastructure Services** enable customers to deliver the optimal IT environment to meet their needs; achieving high levels of IT service quality and performance for data centre and end user environments.

## Fujitsu green policy innovation

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

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global knowhow, we aim to resolve issues of environmental energy efficiency through IT.



## More Information

Learn more about Fujitsu, please contact your Fujitsu sales representative, Fujitsu business partner, or visit our website <http://www.fujitsu.com/fts/services/support/>

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