

Data Sheet

FUJITSU Integrated System

PRIMEFLEX® for SAP HANA®

V1.4 Solution

The PRIMEFLEX for SAP HANA® Platform is an SAP®-certified infrastructure solution for the SAP HANA®.

Introduction to SAP HANA and the Fujitsu Infrastructure Offering

SAP HANA is an innovative data platform optimized for performing real-time analytics and handling real-time transaction workloads. It is based on innovative in-memory technology which allows real-time access to massive amounts of data, by holding a copy of the live data in the quickly accessible main memory.

The maturation of industry-standard technology is a basic enabler for in-memory technology, as it provides the necessary power and capacity at an affordable price. PRIMEFLEX for SAP HANA fulfills the substantial technical prerequisites and is certified by SAP. The pre-installed and pre-tested delivery plus on-site services ensure a fast and non-disruptive implementation and operation at the customer site.

Single-Node Offering

This offering is based on PRIMERGY RX4770M2 and PRIMEQUEST 2800B2 servers and comprises the following options:

- PRIMERGY RX4770M2 2x CPU
128/256/384/512/768 GB Memory
- PRIMERGY RX4770M2 4x CPU
1/1.5/2* TB Memory
- PRIMEQUEST 2800B22x CPU
128/256/384/512/768 GB Memory
- PRIMEQUEST 2800B24x CPU
1/1.5/2* TB Memory
- PRIMEQUEST 2800B28x CPU
3/4* TB Memory

Additional SAP HANA SoH optimized configurations:

- PRIMERGY RX4770M2 2x CPU
1/1.5 TB Memory
- PRIMERGY RX4770M2 4x CPU
3 TB Memory
- PRIMEQUEST 2800B22x CPU
1/1.5 TB
- PRIMEQUEST 2800B24x CPU
3 TB
- PRIMEQUEST 2800B26x CPU
4.5* TB
- PRIMEQUEST 2800B28x CPU
6 TB Memory

All single node configurations include internal disks or direct attached Fujitsu ETERNUS JX40S2 Storage Subsystem for persistence.

Complementary Components for Smart Implementation and Operation

Fujitsu Infrastructure Support
PRIMEFLEX for SAP HANA consists of hardware, software and network products from different vendors. The Fujitsu Infrastructure Support is designed to provide seamless support for the entire infrastructure solution. Fujitsu acts as the single point of contact and provides support for all solution components and their interoperability. This relieves customers from contacting different organizations in case of a system failure and consequently helps to reduce downtimes. Furthermore, the mix of proactive and reactive services allows detection and correction of malfunctions before they may have any impact on operations.

The offering is available as SolutionContract

or as SolutionPack combined with Support Packs.

SolutionPack is the entry level service product for infrastructure support. SolutionContract provides flexibility with regards to the contract period and the contracted infrastructure, both allows several service level options depending on individual needs.

Support Packs provide product related maintenance services to complement Fujitsu's product warranty. They comprise reactive service elements focusing on diagnosis of hardware or software faults and their elimination. The services are delivered remotely, offsite or onsite.

Fujitsu Support Gateway

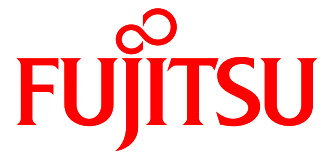
For remote access, trap forwarding and autocalls the Fujitsu Support Gateway is recommended. This hardware and software solution enables server less remote access and remote services for Fujitsu's IT infrastructure products at customer site. Thus time-consuming on-site services can be reduced thanks to remote problem diagnosis and error elimination.

More Solution Offers for SAP HANA: Single-Node Versions

The SAP-certified PRIMERGY RX4770M2 and PRIMEQUEST 2800B2 Single Node Appliance configurations can also be modified for using ETERNUS DX Storage, NetApp FAS Series and other SAP-certified storage systems according to the SAP HANA Tailored Data Center Integration approach.

*requires SPS11+





SAP HANA can also be used in a VMware-virtualized environment.

The PRIMERGY RX2540 M1 is supported as entry-level system for SAP HANA.

Multi-Node Reference Architectures

SAP-certified multi-node reference architectures enable tailor-made scale-out offers. 2 to 40 nodes and up to 16 TB main memory are currently possible. The reference architectures are based on PRIMERGY RX4770M2 and PRIMEQUEST 2800B2 servers and ETERNUS DX Storage. NetApp FAS Series and other SAP-certified storage systems can be used according to the SAP HANA Tailored Data Center Integration approach.

Please discuss the requirements with your local Fujitsu sales contact.

Features and benefits

Main features	Benefits
<p>Single-Node Offering</p> <ul style="list-style-type: none"> ■ Infrastructure: optimized and SAP certified ■ Pre-installed, pre-tested, customized and quality assured delivery ■ Industrialized, end-to-end services for end-to-end data center implementation and integration ■ Comprehensive maintenance support services ■ Scalable size options from 128GB to 6TB ■ Infrastructure support based on product related maintenance services offered as Fujitsu SolutionContract or hardware and software support packs combined with SolutionPack. 	<ul style="list-style-type: none"> ■ Reliable, high-performance platforms for efficient use of SAP HANA ■ No installation effort at the customer site, error prevention and stable operation ■ Non-disruptive, high quality integration into the existing environment ■ Reliable and quick support that minimizes downtime ■ Right size for different projects sizes and easy upgrade to meet growing demands ■ The right support service level with flexible service options to meet individual customer needs

The elaborate PRIMEFLEX for SAP HANA offering is rounded off by a complete set of services which cover all projects phases from a customer-specific solution concept to continuous solution support. With the comprehensive infrastructure and service approach Fujitsu aims to ensure mission-critical readiness combined with reduced TCO.

TECHNICAL DETAILS

SINGLE-NODE CONFIGURATION	
HANA Node	128/256/384/512/768 GB PRIMERGY RX4770M2 or PRIMEQUEST 2800B2 <ul style="list-style-type: none"> ▪ 2 * CPU E7-8880v3 18C/36T or E7-8890v3 18C/36T ▪ 128/256/384/512/768 GB RAM 1/1.5/2* TB PRIMERGY RX4770M2 or PRIMEQUEST 2800B2 <ul style="list-style-type: none"> ▪ 4 * CPU E7-8880v3 18C/36T or E7-8890v3 18C/36T ▪ 1/1.5/2* TB RAM 3/4* TB PRIMEQUEST 2800B2 <ul style="list-style-type: none"> ▪ 8 * CPU E7-8880v3 18C/36T or E7-8890v3 18C/36T ▪ 3/4* TB RAM Additional SAP HANA SoH optimized configurations 1/1.5 TB PRIMERGY RX4770M2 or PRIMEQUEST 2800B2 <ul style="list-style-type: none"> ▪ 2 * CPU E7-8880v3 18C/36T or E7-8890v3 18C/36T ▪ 1/1.5 TB RAM 3 TB PRIMERGY RX4770M2 or PRIMEQUEST 2800B2 <ul style="list-style-type: none"> ▪ 4 * CPU E7-8880v3 18C/36T or E7-8890v3 18C/36T ▪ 3 TB RAM 4.5* TB PRIMEQUEST 2800B2 <ul style="list-style-type: none"> ▪ 6 * CPU E7-8880v3 18C/36T or E7-8890v3 18C/36T ▪ 4.5* TB RAM 6TB PRIMEQUEST 2800B2 <ul style="list-style-type: none"> ▪ 8 * CPU E7-8880v3 18C/36T or E7-8890v3 18C/36T ▪ 6 TB RAM *requires SPS11+
Storage System	1 * ETERNUS JX40S2 Storage Subsystem
SOFTWARE	
Operating System	HANA Nodes: SUSE® Linux Enterprise Server for SAP Applications (SLES4SAP) 11 SP4
Fujitsu Software	Fujitsu HANA Software V1.4A
SAP Software	SAP HANA® Software V1.0 SPS10 The SAP HANA® Software is supplied pre-installed, but it is not part of the contract with Fujitsu. The software must be purchased by the customer from SAP AG. Fujitsu provides the SAP HANA software pre-installed. Any other SAP software is provided by the customer and installed at the customer site.

DELIVERY, IMPLEMENTATION, DOCUMENTATION & SUPPORT							
User Interface	English						
Installation	Supplied pre-installed and optionally pre-configured ex works						
User Requirements	Knowledge of SAP BW software is a prerequisite						
Warranty	Class A						
Maintenance and Support Services	Fujitsu SolutionContract for PRIMEFLEX for SAP HANA or Support Pack combinations <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">SolutionPack</td> <td>9x5 remote response 2 hrs or 24x7 remote response 2 hrs.</td> </tr> <tr> <td style="padding-left: 20px;">Support Pack Software</td> <td>9x5 remote response 4hrs or 24x7 remote response 4 hrs.</td> </tr> <tr> <td style="padding-left: 20px;">Support Pack Hardware</td> <td>9x5 on-site response NBD or 24x7 on-site response 4 hrs.</td> </tr> </table>	SolutionPack	9x5 remote response 2 hrs or 24x7 remote response 2 hrs.	Support Pack Software	9x5 remote response 4hrs or 24x7 remote response 4 hrs.	Support Pack Hardware	9x5 on-site response NBD or 24x7 on-site response 4 hrs.
SolutionPack	9x5 remote response 2 hrs or 24x7 remote response 2 hrs.						
Support Pack Software	9x5 remote response 4hrs or 24x7 remote response 4 hrs.						
Support Pack Hardware	9x5 on-site response NBD or 24x7 on-site response 4 hrs.						
Media Set/ Documentation	1 Blu-rays or 2 DVDs						
Ordering and Delivery	This software product is available from your local sales representative or regional branch of Fujitsu						
Contact	Fujitsu Technology Solutions GmbH Munich, Germany						

More information

Fujitsu OPTIMIZATION Services

In addition to the FUJITSU Integrated System PRIMEFLEX for SAP HANA, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as a Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

Computing products

<http://www.fujitsu.com/fts/products>

Software

<http://www.fujitsu.com/fts/products/software>

Solutions

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

More information

Learn more about PRIMEFLEX for SAP HANA, please contact your Fujitsu sales representative, send an email to expert.sap@ts.fujitsu.com, or visit our website <http://www.fujitsu.com/fts/hana>

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT. Please find further information at: <http://www.fujitsu.com/global/about/environment/>



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