

Technical Product Specification

PRIMEFLEX for Nutanix Enterprise Cloud Extension for SAP HANA®

The fast track to your hyper-converged IT infrastructure now also certified for SAP HANA®.

PRIMEFLEX for Nutanix Enterprise Cloud

A multi-cloud, multi-hypervisor platform that includes all the hardware and software to simplify procurement and deployment by using hyper-converged building blocks. It leverages high performance, energy-efficient FUJITSU PRIMERGY standard x86 servers and the software-defined compute, virtualization and storage technology in the Nutanix Acropolis cloud OS, Prism management and Calm orchestration. The result is reduced complexity and vastly superior TCO from this multi-cloud infrastructure environment.

Unlocking the benefits for SAP Environments on PRIMEFLEX for Nutanix Enterprise Cloud

The SAP HANA HCI (Hyper-Converged Infrastructures) certification of PRIMEFLEX for Nutanix Enterprise Cloud allows you to use the advantages of HCI for SAP HANA. There is no longer the need to have SAP HANA running on a separated hardware with different operational concept compared to the rest of the SAP applications. Now it is possible to run SAP environments of any kind, from SAP Business Suite up to newest SAP S/4HANA or BW/4HANA including SAP HANA® data bases virtualized on one common platform with uniform operation for all deployments. This common platform allows a mix of the operating systems Linux as well as and beside the SAP environment also other workloads can be run on the same platform.

Bring the PRIMEFLEX for Nutanix Enterprise Cloud benefits to your SAP environment

Benefit from the flexibility of a fully virtualized SAP environment including SAP HANA. Simplify your infrastructure management with the Nutanix Prism management tool. Grow as you go by using the the easy scaling in number of systems and storage. Build on a fully tested high-performance and energy-efficient server platform – FUJITSU Server PRIMERGY powered by Intel® Xeon® processors.

Simplify SAP infrastructure setup

As a complement, Fujitsu Technology Consulting, Implementation and Advisory Services for PRIMEFLEX for Nutanix Enterprise Cloud with focus on SAP Environments delivering fast provisioning of the solution, seamless integration into the data center and therefore reduced implementation risks.

The result is an optimized and standardized SAP environment to respond faster to growing business needs in terms of accelerated SAP projects and simplified daily operations on a highly available infrastructure –an ideal foundation for hybrid IT and innovative SAP architectures.



Features and benefits additional to PRIMEFLEX for Nutanix Enterprise Cloud

MAIN FEATURES	BENEFITS
<ul style="list-style-type: none">■ SAP HANA® certified HCI infrastructure	<ul style="list-style-type: none">■ Common management of SAP applications including SAP HANA® databases on the same infrastructure platform - no need for separated SAP HANA infrastructures outside■ Virtualized SAP HANA Scale-Up instances on 2 or 4 socket servers, memory scaling: from 128 GB up to 4,5 TB usable for productive SAP HANA■ Large range of nodes in one cluster possible: from 3 to 64 Nutanix nodes supported■ Consolidates the SSDs of all Nutanix cluster nodes into a shared data store. This allows an elastic, non-disruptive growth by simple adding new nodes to increase compute power and storage capacity jointly - without the need for separated, external NAS or SAN storage
<ul style="list-style-type: none">■ Modern infrastructure optimized for SAP needs	<ul style="list-style-type: none">■ Reduced time to market and lower risk with validated design for SAP environments■ Simplified daily operation of SAP landscapes including SAP HANA■ Flexible to be extended for future demands
<ul style="list-style-type: none">■ Industrialized, end-to-end services for end-to-end data center implementation and integration	<ul style="list-style-type: none">■ Non-disruptive, high quality integration into the existing environment

Technical details

Configurations

General specification

- The support of SAP HANA on PRIMEFLEX for Nutanix Enterprise Cloud by Fujitsu and SAP requires specific configurations and support contracts. These requirements are described in the PRIMEFLEX for Nutanix Enterprise Cloud - SAP HANA® Support Matrix. Changes which are not explicitly allowed in the support matrix will have as consequence that no support by Fujitsu and SAP can be granted.
See also SAP Note 2779971 - Running SAP HANA on a hyperconverged infrastructure from Fujitsu (<https://launchpad.support.sap.com/#/notes/2779971>, SAP account needed)
- The following specifications and requirements apply only to the Nutanix nodes that are used for SAP HANA. For all other SAP applications the corresponding SAP notes for using SAP on Nutanix have to be observed.

Hardware Components supported for SAP HANA

XF8050 M2	Server model	PRIMERGY RX2540 M5
XF8050 NVME M2	CPUs (total/HANA)	2/1
	CPU Options	Xeon SP (Cascade Lake) Platinum/Gold with minimum 8 Cores
	Memory per node	384*, 768*, 1.152*, 1.536*, 3.072*
		*: for productive SAP HANA instances only the half of the memory is available
XF9050 M2	Server model	PRIMERGY RX4770 M5
	CPUs (total/HANA)	4/3
	CPU Options	Xeon SP (Cascade Lake) Platinum/Gold with minimum 8 Cores
	Memory per node	384*, 768*, 1.536*, 3.072*, 6144*
		*: for productive SAP HANA instances only three-fourths of the memory is available

Cluster Range 3-64 Nutanix nodes per cluster

Software Components supported for SAP HANA

HCI Software	Nutanix Acropolis Operating System (AOS) - 5.15 LTS / 5.20 LTS
Hypervisor	Nutanix AHV – 20170830 to 20190916
Operating Systems	SUSE SLES for SAP Applications 12 SP4/SP5, 15 SP1/SP2/SP3 Red Hat Enterprise Linux for SAP Solutions 8.1 / 8.2 / 8.4
SAP HANA	SAP HANA DB 2.0 SPS01/02/03/04/05/06, 1.0 SPS12

Technical details

Licensing, Support, Service

Licensing

Licenses used with PRIMEFLEX for Nutanix Enterprise Cloud for running SAP HANA:

- Nutanix Acropolis–Licenses are required and contained in XF8050 M2/XF9050 M2 configuration
- SAP Software licenses are not included; need to be ordered in addition

Warranty

Warranty conditions from the multiple products apply as released by the respective vendors.

Support Service

Support Services of standard PRIMEFLEX for Nutanix Enterprise Cloud are required.

Availability of Support Services for PRIMEFLEX for Nutanix Enterprise Cloud and for the SAP HANA Extension may vary by country or region.

Support and Service regulations

[Country-specific support terms \(incl. GTCs\)](#)

Professional Services

Deployment Service

Mandatory Deployment Services defined by standard PRIMEFLEX for Nutanix Enterprise Cloud are required.

For SAP HANA deployments additional, mandatory Deployment Services are offered for configuration, sizing and implementation.

Ordering

PRIMEFLEX for Nutanix Enterprise Cloud may be obtained from your local Fujitsu sales representative / regional office

NOTE: This Data Sheet is valid only for SAP HANA deployments on PRIMEFLEX for Nutanix Enterprise Cloud

Delivery / shipment

PRIMEFLEX for Nutanix Enterprise Cloud configurations are delivered as pre-assembled, pre-configured, and pre-tested hardware components build in a rack, or packed in separate boxes to insert the components in a given rack provided by the customer. SAP HANA deployments are typically done on-site at customer side.

Disclaimer

Technical data subject to modification and delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner.

Fujitsu platform solutions

In addition to PRIMEFLEX for Nutanix Enterprise Cloud, 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 Business-Centric Data Center approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to data center 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
www.fujitsu.com/global/services/computing/

- PRIMERGY: Industrial standard server
- SPARC Enterprise: UNIX server
- PRIMEQUEST: Mission-critical x86 server
- ETERNUS: Storage system

Software
www.fujitsu.com/software/

More information

To learn more about PRIMEFLEX for Nutanix Enterprise Cloud, please contact your Fujitsu business partner, Fujitsu sales representative, or visit our website.

<https://www.fujitsu.com/nutanix>

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:

www.fujitsu.com/global/about/environment/



Copyright

All rights reserved, including intellectual property rights. Changes to technical data reserved. Delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded.

Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner.

For further information see
<http://www.fujitsu.com/fts/resources/navigation/terms-of-use.html>

Copyright 2022 FUJITSU LIMITED

Contact

Fujitsu Technology Solutions
Website: www.fujitsu.com/fts
2022-03-31 WW EN