



Certificate

SAP INTEGRATION CERTIFICATION

SAP SE hereby confirms that the enterprise storage solution

E-Series

of the company

NetApp Inc.

has been certified for operating SAP HANA.

This certificate confirms the existence of product features in accordance with SAP certification procedures. It does not guarantee that the product is error-free.

The certification test is documented in report no. 32273882 and expires May 27, 2018.

Enterprise Storage Specification used for Test:

Storage Solution: E-Series
Model: E5600
Release / Year: 2015
Storage Setup: configuration for 8 nodes:
data & log: pool out of 60* 900GB10k HDD
Storage Connector: hdb_ha.fcClient
File System: Data & Log: XFS
Restrictions
& Comments: Family includes E2700 (E2712, E2724, E2760), E5400 (E5412, E5424, E5460), E5500 (E5512, E5524, E5560), E5600 (E5612, E5624, E5660), EF540, EF550, EF560 and scales up to 8 SAP HANA nodes per E2700 and up to 24 SAP HANA nodes per E5600/EF560.

Models included
into Storage Family: E-Series: E2700, E5400, E5500, E5660, E5624, E5612
EF-Series: EF540, EF550, EF560

Tested Storage Connector Types(s):
SAN - Fibre Channel

Walldorf, May 28, 2015
SAP SE

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SAP[®] Certified
Hardware for SAP HANA[®]

HANA Hardware Certification Enterprise Storage

HANA-HWC-ES 1.0

Test Report

Integration and Certification Center
hwc@sap.com

Version 1.12
January 21, 2015



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HANA Hardware Certification #32273882

Name of Manufacturer: NetApp Inc.
Vendor Number: 1228888 (SAP internal)

Enterprise Storage Hardware:

Storage Solution: E-Series
Model: E5600
Release / Year: 2015
Storage Setup: configuration for 8 nodes:
data & log: pool out of 60* 900GB10k HDD
Storage Connector hdb_ha.fcClient
File System: Data & Log: XFS

Details on storage for shared volume

Storage Setup: pool out of 60* 900GB10k HDD
File System: NFS

HANA Node Hardware

Manufacturer: Fujitsu
Model: PRIMERGY RX300 S8
Used CPU: 2x Intel(R) Xeon(R) CPU E5-2630 v2
Memory: 128 GB
Operating System: SLES for SAP 11 SP3
Linux Kernel Vers.: 3.0.101-0.40-default

Test Tool Version 1.00.80.00
KPI Version test catalog v1.21

SAP HANA Installation
SAP HANA revision: 1.00.70.00

Models included into Storage Family E-Series: E2700, E5400, E5500, E5660, E5624, E5612
EF-Series: EF540, EF550, EF560

Restrictions & Comments: Family includes E2700 (E2712, E2724, E2760), E5400 (E5412, E5424, E5460), E5500 (E5512, E5524, E5560), E5600 (E5612, E5624, E5660), EF540, EF550, EF560 and scales up to 8 SAP HANA nodes per E2700 and up to 24 SAP HANA nodes per E5600/EF560.

Certified Storage Connector Types:

- SAN - Fibre Channel
- SAN - Distributed files system
- NAS - Shared file system

Certification Date: May 28, 2015
Expiration Date: May 27, 2018
Location: Walldorf
Persons present: (Manufacturer) Adolf Hohl

Persons present: (SAP) Sebastian Kreitz



Part 1 - Documentation

Item	Rating	Note
Bill of Material	ok	
Architectural Documentation	ok	
Best Practices Guide	ok	
Storage Connector(s)	n/a	
High Availability features	ok	covered by prior HA-tests with former model version

Part 2 - Enterprise Storage Test

Item	Rating	Note
Storage Setup	ok	
KPIs for throughput	ok	
KPIs for latency	ok	
SAP HANA Database performance	n/a	
SAP HANA failover test	ok	covered by prior HA-tests with former model version

Part 3 - Enterprise Storage Family

Models included into Storage Family
E-Series: E2700, E5400, E5500, E5660, E5624, E5612 EF-Series: EF540, EF550, EF560

Product certified	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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