



Hewlett Packard
Enterprise

SAP HANA Business One on HPE ProLiant DL360 Skylake SP Gen10

April, 2018

HPE Server for HANA B1 on ProLiant DL360 Gen10 Skylake SP

Certified Configuration

Hardware components

- 2S/1.5TB Skylake SP server HW platforms for SAP HANA B1
- DL360 Gen10 Intel® Xeon-Gold 5118 (2.3GHz/12-core) or Intel® Xeon-Silver 4114 (2.2GHz/10-core)
- 64GB (24x64GB) Quad Rank x4 DDR4-2666
- HPE Smart Array P816i-a SR Gen10 12G SAS Modular Controller
- Internal Storage
 - 3x 400GB 12G MU SFF SSD
 - 7x 1.8TB SAS 12G 10K SFF HDD
- 2x HPE Ethernet 10Gb 2-port 562SFP+ Adapter

HPE Server for HANA B1 on DL360 Gen10 Skylake SP

Storage configuration

- Smart Array P816i-a SR Gen10
- 3x 400GB 12G MU SFF SSD (SmartCache)
 - Array Cache used for LOG and DATA Volumes
- 7x 1.8TB SAS 12G 10K SFF HDD:
 - Array A with 4x 1.8TB in RAID50
 - Logical Drive DATA
 - Array B with 3x 1.8TB in RAID5
 - Logical Drive OS
 - Logical Drive LOG
 - Logical Drive /hana/shared
 - Logical Drive /usr/sap



HANA Database server

HPE ProLiant DL360 Gen10 1.5TB
P816i-a Gen10 12G

Internal Storage (LOG and DATA)

SmartCache - 3x 400GB SSD (LOG and DATA)

DATA – 4x1.8TB 12G SAS 10K rpm SFF (4.5TB usable) RAID50

LOG – 3x1.8TB 12G SAS 10K rpm SFF (512GB usable) RAID5



Networking

2x HPE Ethernet 10Gb 2-port
562SFP+

HPE Server for HANA B1 on DL360 Gen10 Skylake SP

Software

- SAP HANA 1.0 SPS12 Rev.16
- SAP B1 9.3 PL02
- SUSE Linux Enterprise Server for SAP Applications 12 SP2



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DATA – 4x1.8TB 12G SAS 10K rpm SFF (4.5TB usable) RAID50

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Networking

2x HPE Ethernet 10Gb 2-port
562SFP+

Supported Memory Sizes

Memory Sizes	96GB	192GB	384GB	576GB	768GB	1152GB	1.5TB
2 socket (5118)	X	X	X	X	X	X	X
2 socket (4114)	X	X	X				

Support for Mixed DIMM population

HPE discourages customers of using mixed DIMM.

SAP HANA B1 Solution BOM

HPE ProLiant DL360 Gen10 Server	Max. Users / SKU	35 users 96GB	75 users 192GB	150 users 384GB	250 users 768GB	350 users 1.5TB
HPE DL360 Gen10 8SFF CTO Server	Q9Q87A	1	1	1	1	1
HPE DL360 Gen10 Intel® Xeon-Gold 5118 (2.3GHz/12-core/105W) FIO Processor Kit	860663-L21	1	1	1	1	1
HPE DL360 Gen10 Intel® Xeon-Gold 5118 (2.3GHz/12-core/105W) Processor Kit	860663-B21	1	1	1	1	1
HPE DL360 Gen10 Intel® Xeon-Silver 4114 (2.2GHz/10-core/85W) FIO Processor Kit	860657-L21	1	1	1	-	-
HPE DL360 Gen10 Intel® Xeon-Silver 4114 (2.2GHz/10-core/85W) Processor Kit	860657-B21	1	1	1	-	-
HPE 8GB (1x8GB) Dual Rank x8 DDR4-2666	876181-B21	12	24	-	-	-
HPE 16GB (1x16GB) Dual Rank x8 DDR4-2666	835955-B21	-	12	24	-	-
HPE 32GB (1x32GB) Dual Rank x4 DDR4-2666	815100-B21	-	-	12	24	-
HPE 64GB (1x64GB) Quad Rank x4 DDR4-2666	815101-B21	-	-	-	12	24
HPE DL360 Gen10 2SFF SAS/SATA Backplane Kit	867966-B21	1	1	1	1	1
HPE Ethernet 10Gb 2-port 562SFP+ Adptr	727055-B21	1	1	1	1	1
HPE Ethernet 10Gb 2-port 562FLR-SFP+ FlexLOM Adapter	727054-B21	1	1	1	1	1
HPE DL3xx Gen10 Rear Serial Cable Kit	873770-B21	1	1	1	1	1
HPE 800W FS Plat Ht Plg LH Pwr Sply Kit	865414-B21	2	2	2	2	2
SLES SAP 2Skt/1-2 VM 3yr 24x7 Flx LTU	N0U73A	1	1	1	1	1
SLES SAP 2Skt/1-2 VM 5yr 24x7 Flx LTU	N0U75A	1	1	1	1	1
HPE Smart Array P816i-a SR Gen10 Ctrlr	804338-B21	1	1	1	1	1
HPE 96W Smart Storage Battery (up to 20 Devices/145mm Cable) Kit	P01366-B21	1	1	1	1	1
HPE 400GB SAS 12G MU SFF SC DS SSD	872374-B21	3	3	3	3	3
HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC DS HDD	872481-B21	7	7	7	7	7
HPE SmartCache Nm 24x7 Supp Flex Lic	D7S27A	1	1	1	1	1

*Mixing DIMM sizes not allowed; choose just one CPU type and one SLES LTU (if needed)

HPE ProLiant DL360 Gen10 Certification Document



Certificate

SAP INTEGRATION CERTIFICATION

SAP SE hereby confirms that the B1 Appliance(s)

ProLiant DL360 Gen10

of the company

Hewlett-Packard Enterprise

have been certified for operating SAP HANA.

This certificate confirms the existence of product features in accordance with SAP certification procedures. SAP only certifies successful integration of the product with SAP solutions. Vendor is responsible for the product itself and its error-free operation.

The certification test with scenario HANA-HWC-B1 SU 2.1 is documented in report no. 12030 and expires April 8, 2021.

Testing Results:

Average response time: 1.81
Business transactions per hour: 175038
Max CPU of server: 0.88
Max memory: 575

Appliance specification used for test:

Server System: ProLiant DL360 Gen10
Model: ProLiant DL360 Gen10
Version / Year: 2018
Used CPU: 2* Intel(R) Xeon(R) Gold 5118 CPU
Memory: 1,5 TB
Appliance Type: B1 Single Node
Storage Setup: Data volume: 4* 1.8TB SAS HDD RAID 50, SmartCache
Log volume: pool from 3* 1.8TB SAS HDD RAID 5,
SmartCache

File System: Data+Log: XSF
Operating System: SLES for SAP SP2

Restrictions

& Comments: This configuration is supported up to:
35 users (96 GB), 75 users (192 GB),
150 users (384 GB), 200 users (576 GB),
250 users (768 GB), 350 users (1,5 TB)
Configurations supported with Intel Xeon SP as outlined
or Intel Xeon SP with higher specification;
System size <= 1,5 TB: Intel Xeon SP 5118
System size <= 384 GB: Intel Xeon SP 4114

This certification includes the following Appliance models:

DL360 Gen10: 96GB - 1,5TB

Detailed listings are available on the SAP HANA Hardware Directory.

Walldorf, April 9, 2018

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