

# SAP HANA Enterprise 1.0

## SAP HANA Platform 1.0

### Product Availability Matrix

December, 2013

Customer

For the automatically generated PAM which shows more details of already released entries please refer to

<http://service.sap.com/pam>



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# SAP HANA PAM: Supported Hardware Platforms for SAP HANA Single Node 1/8

HW Vendor	Server System	CPU	Log volume (1*Memory)	Data volume (4*Memory)	Memory	File System	Operating Systems
DELL	R910	2 *Nehalem EX Intel X7560 (2,26 GHz)	1* Fusion-io ioDrive Duo 640GB, configured as RAID 0	14 * 146 GB 15k rpm, configured as RAID 5	128 GB RAM	ext3 ,xfs	SLES11 SP1
DELL	R910	2 *Nehalem EX Intel X7560 (2,26 GHz)	1* Fusion-io ioDrive Duo 640GB, configured as RAID 0	14 * 146 GB 15k rpm, configured as RAID 5	256 GB RAM	ext3 ,xfs	SLES11 SP1
Fujitsu	RX600 S5	2 *Nehalem EX Intel X7560 (2,26 GHz)	2* Fusion-io ioDrive 320 GB, configured as RAID 0	16* disks 146GB 15k rpm configured as RAID 10	128 GB RAM	ext3	SLES11 SP1
Fujitsu	RX600 S5	2 *Nehalem EX Intel X7560 (2,26 GHz)	2* Fusion-io ioDrive 320 GB, configured as RAID 0	16* disks 146GB 15k rpm configured as RAID 10	256 GB RAM	ext3	SLES11 SP1
Fujitsu	RX600 S5	4 *Nehalem EX Intel X7560 (2,26 GHz)	2* Fusion-io ioDrive 320 GB, configured as RAID 0	2 * (16 disks 146GB 15k rpm configured as RAID 10), configured as RAID 0	512 GB RAM	ext3	SLES11 SP1
Fujitsu	RX900 S1	4 *Nehalem EX Intel X7560 (2,26 GHz)	2* Fusion-io ioDrive Duo 640GB, configured as RAID 0	2 * (15 disks 300GB 10k rpm configured as RAID 10), configured as RAID 0	512 GB RAM	ext3	SLES11 SP1
Fujitsu	RX900 S1	8 *Nehalem EX Intel X7560 (2,26 GHz)	2* Fusion-io ioDrive Duo 640GB, configured as RAID 0	2* (15 disks 300GB 10k rpm configured as RAID10) configured as RAID 0	1 TB RAM	ext3	SLES11 SP1
HP	DL580 G7	2 *Nehalem EX Intel X7560 (2,26 GHz)	1 *Fusion-io ioDrive Duo 320GB, configured as RAID 0	24 * 146 GB disks 15k rpm configured as RAID 5	128 GB RAM	ext3, xfs	SLES11 SP1
HP	DL580 G7	2 *Nehalem EX Intel X7560 (2,26 GHz)	1 *Fusion-io ioDrive Duo 320GB, configured as RAID 0	24 * 146 GB disks 15k rpm configured as RAID 5	256 GB RAM	ext3, xfs	SLES11 SP1
HP	DL580 G7	4 *Nehalem EX Intel X7560 (2,26 GHz)	2 *Fusion-io ioDrive Duo 320GB, configured as RAID 0	24 * 146 GB disks 15k rpm configured as RAID 5	512 GB RAM	ext3, xfs	SLES11 SP1
HP	DL980 G7	4 *Nehalem EX Intel X7560 (2,26 GHz)	2 *Fusion-io ioDrive Duo 320GB, configured as RAID 0	24 * 300 GB disks 10k rpm configured as RAID 5	512 GB RAM	ext3, xfs	SLES11 SP1
HP	DL980 G7	8 *Nehalem EX Intel X7560 (2,26 GHz)	4 *Fusion-io ioDrive Duo 320GB, configured as RAID 0	24 * 300 GB disks 10k rpm configured as RAID 5	1 TB RAM	ext3, xfs	SLES11 SP1
IBM	x3690 X5	2 *Nehalem EX Intel X7560 (2,26 GHz)	2 controllers with 4* 50GB SSD each, configured as RAID 0	8* 146GB 15k rpm SAS drives configured as RAID 5	128 GB RAM	GPFS	SLES 11 SP1
IBM	x3690 X5	2 *Nehalem EX Intel X7560 (2,26 GHz)	2 controllers with 4* 50GB SSD each, configured as RAID 0	8* 146GB 15k rpm SAS drives configured as RAID 5	256 GB RAM	GPFS	SLES 11 SP1
IBM	x3850 X5	4 *Nehalem EX Intel X7560 (2,26 GHz)	1* Fusion-io ioDrive Duo 640GB, using GPFS	8* 300GB 10k rpm SAS drives configured as RAID 5	512 GB RAM	GPFS	SLES 11 SP1
IBM	x3850 X5	8 *Nehalem EX Intel X7560 (2,26 GHz)	2* Fusion-io ioDrive Duo 640GB, using GPFS	16* 600GB 10k rpm SAS drives configured as 2* RAID 5	1 TB RAM	GPFS	SLES 11 SP1

# SAP HANA PAM: Supported Hardware Platforms for SAP HANA Single Node 2/8

HW Vendor	Server System	CPU	Log volume (1*Memory)	Data volume (4*Memory)	Memory	File System	Operating Systems
Cisco	UCS C260 M2	2*Westmere EX Intel E7-2870 (2,4 GHz)	6* 100 GB SSD, as RAID 10	8* disks 600GB 10k rpm , configured as RAID 0+1	128 GB RAM	ext3	SLES 11 SP1, SP2 or SLES for SAP 11 SP2
Cisco	UCS C260 M2	2*Westmere EX Intel E7-2870 (2,4 GHz)	6* 100 GB SSD, as RAID 10	8* disks 600GB 10k rpm , configured as RAID 0+1	256 GB RAM	ext3	SLES 11 SP1, SP2 SLES for SAP 11 SP2
Cisco	UCS C460 M2	4*Westmere EX Intel E7-4870 (2,4 GHz)	2* Fusion-io ioDrive 320 GB, or 2* Fusion-io ioDrive2 365 GB as RAID 0	10* disks 300GB 10k rpm, configured as RAID 5	512 GB RAM	ext3, xfs	SLES 11 SP1, SP2 SLES for SAP 11 SP2
Dell	R910	2*Westmere EX Intel E7-4870 (2,4 GHz)	1* Fusion-io ioDrive 320GB, or 1* Fusion-io ioDrive2 785 GB configured as RAID 0, or 2* Fusion-io ioDrive2 785 GB as RAID 1	10 * 300 GB 10k rpm, configured as RAID 6	128 GB RAM	ext3 ,xfs	SLES for SAP 11 SP1, SP2
Dell	R910	2*Westmere EX Intel E7-4870 (2,4 GHz)	1* Fusion-io ioDrive 320GB, or 1* Fusion-io ioDrive2 785 GB configured as RAID 0, or 2* Fusion-io ioDrive2 785 GB as RAID 1	10 * 300 GB 10k rpm, configured as RAID 6	256 GB RAM	ext3 ,xfs	SLES for SAP 11 SP1, SP2
Dell	R910	4*Westmere EX Intel E7-4870 (2,4 GHz)	1* Fusion-io ioDrive Duo 640GB, or 1* Fusion-io ioDrive2 785 GB configured as RAID 0, or 2* Fusion-io ioDrive2 785 GB configured as RAID 1	10 * 300 GB 10k rpm, configured as RAID 6	512 GB RAM	ext3 ,xfs	SLES for SAP 11 SP1, SP2
Fujitsu	RX600 S6	2 *Westmere EX Intel E7-4870 (2,4 GHz)	2* Fusion-io ioDrive 320 GB, or 1* Fusion-io ioDrive2 785 GB as RAID 0	8* 600 GB disks 10k rpm Configured as RAID-5 (incl. BBU)	128 GB RAM	ext3, xfs	SLES for SAP 11 SP1, SP2
Fujitsu	RX600 S6	2 *Westmere EX Intel E7-4870 (2,4 GHz)	2* Fusion-io ioDrive 320 GB, or 1* Fusion-io ioDrive2 785 GB as RAID 0	8* 600 GB disks 10k rpm Configured as RAID-5 (incl. BBU)	256 GB RAM	ext3, xfs	SLES for SAP 11 SP1, SP2
Fujitsu	RX600 S6	4 *Westmere EX Intel E7-4870 (2,4 GHz)	2* Fusion-io ioDrive 320 GB, or 1* Fusion-io ioDrive2 785 GB as RAID 0	8* 600 GB disks 10k rpm Configured as RAID-5 (incl. BBU)	512 GB RAM	ext3, xfs	SLES for SAP 11 SP1, SP2
Fujitsu	RX900 S2	4 *Westmere EX Intel E7-8870 (2,4 GHz)	1* Fusion-io ioDrive 2 1.2 TB, or 2* Fusion-io ioDrive 2 1.2 TB as RAID 1	8x 900 GB disks 10k rpm Configured as RAID-5 (incl. BBU)	512 GB RAM	ext3, xfs	SLES for SAP 11 SP1, SP2
Fujitsu	RX900 S2	8 *Westmere EX Intel E7-8870 (2,4 GHz)	1* Fusion-io ioDrive 2 1.2 TB, or 2* Fusion-io ioDrive 2 1.2 TB as RAID 1	8x 900 GB disks 10k rpm Configured as RAID-5 (incl. BBU)	1 TB RAM	ext3, xfs	SLES for SAP 11 SP1, SP2
Fujitsu	PQ1800E2	2*Westmere EX Intel E7-8870 (2,4 GHz)	1* Fusion-io ioDrive2 785 GB or 2* Fusion-io ioDrive2 785 GB as RAID 1	4* 400 GB SSD configured as RAID-5	256 GB	ext3, xfs	SLES for SAP 11 SP1, SP2
Fujitsu	PQ1800E2	4*Westmere EX Intel E7-8870 (2,4 GHz)	1* Fusion-io ioDrive2 785 GB or 2* Fusion-io ioDrive2 785 GB as RAID 1	8* 600 GB disks 10k rpm Configured as RAID-5	512 GB	ext3, xfs	SLES for SAP 11 SP1, SP2
Fujitsu	PQ1800E2	8*Westmere EX Intel E7-8870 (2,4 GHz)	1* Fusion-io ioDrive2 1.2 TB or 2* Fusion-io ioDrive2 1.2 TB as RAID 1	8* 600 GB disks 10k rpm Configured as RAID-5 (incl. BBU)	1 TB RAM	ext3, xfs	SLES for SAP 11 SP1, SP2

# SAP HANA PAM: Supported Hardware Platforms for SAP HANA Single Node 3/8

HW Vendor	Server System	CPU	Log volume (1*Memory)	Data volume (4*Memory)	Memory	File System	Operating Systems
Hitachi	Compute Blade 2000 1*X57A2	2 *Westmere EX Intel E7-8870 (2,4 GHz)	1* Fusion-io ioDrive 320 GB, or 1* Fusion-io ioDrive2 365 GB as RAID 0	LVM over 4 LUNs (RAID5 4+1 drives 300GB each) , via 4 FC links on AMS2100, or 10* 300GB disk 10k rpm configured as RAID 5 over FC on HUS130	256 GB RAM	ext3, xfs	SLES for SAP 11 SP1, SP2
Hitachi	Compute Blade 2000 2*X57A2	2 *Westmere EX Intel E7-8870 (2,4 GHz)	1* Fusion-io ioDrive 320 GB, or 1* Fusion-io ioDrive2 365 GB as RAID 0	LVM over 4 LUNs (RAID5 4+1 drives 300GB each) , via 4 FC links on AMS2100, or 10* 300GB disk 10k rpm configured as RAID 5 over FC on HUS130	256 GB RAM	ext3, xfs	SLES for SAP 11 SP1, SP2
Hitachi	Compute Blade 2000 2*X57A2	4 *Westmere EX Intel E7-8870 (2,4 GHz)	2* Fusion-io ioDrive 320 GB, or 2* Fusion-io ioDrive2 365 GB as RAID 0	LVM over 4 LUNs (RAID5 4+1 drives 300GB each) , via 4 FC links on AMS2100, or 10* 300GB disk 10k rpm configured as RAID 5 over FC on HUS130	512 GB RAM	ext3, xfs	SLES for SAP 11 SP1, SP2
Hitachi	Compute Blade 2000 4*X57A2	8 *Westmere EX Intel E7-8870 (2,4 GHz)	4* Fusion-io ioDrive 320 GB, or 4* Fusion-io ioDrive2 365 GB as RAID 0	LVM over 4 LUNs (RAID5 4+1 drives 300GB each) , via 4 FC links on AMS2100, or 15* 300GB disk 10k rpm configured as RAID 5 over FC on HUS130	1 TB RAM	ext3, xfs	SLES for SAP 11 SP1, SP2
HP	DL580 G7	2 *Westmere EX Intel E7-4870 (2,4 GHz)	1 *Fusion-io ioDrive Duo 320GB, or 1 *Fusion-io ioDrive2 365 GB as RAID 0	24 * 146 GB disks 15k rpm configured as RAID 5	128 GB RAM	ext3, xfs	SLES11 SP1 or SLES for SAP 11 SP2
HP	DL580 G7	2 *Westmere EX Intel E7-4870 (2,4 GHz)	1 *Fusion-io ioDrive Duo 320GB, or 1 *Fusion-io ioDrive2 365 GB as RAID 0	24 * 146 GB disks 15k rpm configured as RAID 5	256 GB RAM	ext3, xfs	SLES11 SP1 or SLES for SAP 11 SP2
HP	DL580 G7	4 *Westmere EX Intel E7-4870 (2,4 GHz)	2 *Fusion-io ioDrive Duo 320GB, or 2 *Fusion-io ioDrive2 365 GB as RAID 0	24 * 146 GB disks 15k rpm configured as RAID 5	512 GB RAM	ext3, xfs	SLES11 SP1 or SLES for SAP 11 SP2
HP	DL980 G7	4 *Westmere EX Intel E7-4870 (2,4 GHz)	2 *Fusion-io ioDrive Duo 320GB, or 1* Fusion-io ioDrive2 785 GB as RAID 0	24 * 300 GB disks 10k rpm configured as RAID 5	512 GB RAM	ext3, xfs	SLES11 SP1 or SLES for SAP 11 SP2
HP	DL980 G7	8 *Westmere EX Intel E7-4870 (2,4 GHz)	4 *Fusion-io ioDrive Duo 320GB, or 2* Fusion-io ioDrive2 785 GB as RAID 0	24 * 300 GB disks 10k rpm configured as RAID 5	1 TB RAM	ext3, xfs	SLES11 SP1 or SLES for SAP 11 SP2
Huawei	RH5885	2 *Westmere EX Intel E7-8870 (2,4 GHz)	1* ES3000 SSD card 800GB, as RAID 0	8* 600GB disks 10k rpm configured as RAID 5	128 GB RAM	ext3, xfs	SLES for SAP applications 11 SP2
Huawei	RH5885	2 *Westmere EX Intel E7-8870 (2,4 GHz)	1* ES3000 SSD card 800GB, as RAID 0	8* 600GB disks 10k rpm configured as RAID 5	256 GB RAM	ext3, xfs	SLES for SAP applications 11 SP2
Huawei	RH5885	4 *Westmere EX Intel E7-8870 (2,4 GHz)	1* ES3000 SSD card 800GB, as RAID 0	8* 600GB disks 10k rpm configured as RAID 5	512 GB RAM	ext3, xfs	SLES for SAP applications 11 SP2
Huawei	RH5885	8 *Westmere EX Intel E7-8870 (2,4 GHz)	2* ES3000 SSD card 800GB, as RAID 0	2* (8* 600GB disks 10k rpm configured as RAID 5)	1 TB RAM	ext3, xfs	SLES for SAP applications 11 SP2



# SAP HANA PAM: Supported Hardware Platforms for SAP HANA Single Node 4/8

HW Vendor	Server System	CPU	Log volume (1*Memory)	Data volume (4*Memory)	Memory	File System	Operating Systems
IBM	x3690 X5	2 *Westmere EX Intel E7-2870 (2,4 GHz)	2 controllers with 4* 50GB SSD each, as RAID 0	8* 300GB 10k rpm SAS drives configured as RAID 5	128 GB RAM	GPFS	SLES for SAP 11 SP1, SP2
IBM	x3690 X5	2 *Westmere EX Intel E7-2870 (2,4 GHz)	2 controllers with 4* 50GB SSD each, as RAID 0	8* 300GB 10k rpm SAS drives configured as RAID 5	256 GB RAM	GPFS	SLES for SAP 11 SP1, SP2
IBM	x3690 X5	2 *Westmere EX Intel E7-2870 (2,4 GHz)	2 controllers with 5 * 200GB SSD each, as RAID 5	included in Log volume capacity	256 GB RAM	GPFS	SLES for SAP 11 SP1, SP2
IBM	x3950 X5 or X3850 X5	2 *Westmere EX Intel E7-8870 (2,4 GHz)	1* Fusion-io ioDrive Duo 320GB, or 1* Fusion-io ioDrive2 Mono 1.2TB using GPFS	8* 600GB 10k rpm SAS drives, or 8* 900GB 10k rpm SAS drives configured as RAID 5	256 GB RAM	GPFS	SLES for SAP 11 SP1, SP2
IBM	x3950 X5 or x3850 X5	4 *Westmere EX Intel E7-8870 (2,4 GHz)	1* Fusion-io ioDrive Duo 640GB, or 1* Fusion-io ioDrive2 Mono 1.2TB using GPFS	8* 600GB 10k rpm SAS drives, or 8* 900GB 10k rpm SAS drives configured as RAID 5	512 GB RAM	GPFS	SLES for SAP 11 SP1, SP2
IBM	x3950 X5 or X3850 X5	8 *Westmere EX Intel E7-8870 (2,4 GHz)	2* Fusion-io ioDrive Duo 640GB, or 2* Fusion-io ioDrive2 Mono 1.2TB using GPFS	16* 600GB 10k rpm SAS drives, or 16* 900GB 10k rpm SAS drives configured as 2*RAID 5	1 TB RAM	GPFS	SLES for SAP 11 SP1, SP2
Lenovo*	R680 G7	4 *Westmere EX Intel E7-4870 (2,4 GHz)	2*PCI-E SSD 300G configured as RAID0	8*SATA SSD 400G configured as RAID5	512 GB RAM	ext3	SLES for SAP 11 SP2
NEC	Express5800 - A1040a	2 *Westmere EX Intel E7-8870 (2,4 GHz)	1* Virident FlashMax 300 GB, or 1* Virident FlashMax II 1.1 TB	12 * 300 GB 10k rpm, configured as (2 * RAID 5) RAID0	128 GB RAM	xfs	SLES for SAP 11 SP1, SP2
NEC	Express5800 - A1040a	2 *Westmere EX Intel E7-8870 (2,4 GHz)	1* Virident FlashMax 300 GB, or 1* Virident FlashMax II 1.1 TB	12 * 300 GB 10k rpm, configured as (2 * RAID 5) RAID0	256 GB RAM	xfs	SLES for SAP 11 SP1, SP2
NEC	Express5800 - A1080a	8 *Westmere EX Intel E7-8870 (2,4 GHz)	3 * Virident FlashMax 400 GB , as RAID 0, or 1* Virident FlashMax II 1.1 TB	12 * 600 GB 10k rpm, configured as (2 * RAID 5) RAID0	1 TB RAM	xfs	SLES for SAP 11 SP1, SP2

\*All SAP HANA Lenovo solutions are only available and supported in China.

# SAP HANA PAM: Supported Hardware Platforms

## for SAP HANA Scale out 5/8

HW Vendor	Server System	CPU	Storage	Memory	File System	Operating Systems	Restrictions & Comments
Cisco	UCS B440 M2	4 *Westmere EX Intel E7-4870 (2,4 GHz)	Up to 4 x EMC VNX5300 (4 HANA Server : 1 EMC VNX5300 with 75 disks (a 300 GB 10k rpm) each storage array	512GB RAM	MPFS	SLES 11 SP1, SP2 or SLES for SAP 11 SP2	Scale out up to 16 nodes, includes HA capabilities
Cisco	UCS B440 M2	4 *Westmere EX Intel E7-4870 (2,4 GHz)	Up to 4 x EMC VNX5300 (6 HANA Server : 1 EMC VNX5300 with 75 disks (a 300 GB or 600 GB 10k rpm) each storage array	512GB RAM	ext3, xfs	SLES 11 SP1, SP2 SLES for SAP 11 SP2	Scale out up to 16 nodes, includes HA capabilities
Cisco	UCS B440 M2	4 *Westmere EX Intel E7-4870 (2,4 GHz)	Up to 4 x NetApp 3240 (4 HANA Server : 1 Netapp with 48x disks (a 600 GB disks 10k rpm) each System or, Up to 4 x NetApp 3250 (4 HANA Server : 1 Netapp with 48x disks (a 600 GB disks 10k rpm) each System or,	512GB RAM	NFS	SLES 11 SP1, SP2 SLES for SAP 11 SP2	Scale out up to 16 nodes, includes HA capabilities
Cisco	UCS B440 M2	4 *Westmere EX Intel E7-4870 (2,4 GHz)	1x EMC VNX5300 (4 HANA Server : 1 EMC VNX5300 with 50 disks (a 600 GB 10k rpm)	512GB RAM	ext3, xfs	SLES for SAP 11 SP3	Scale out limited to 4 nodes, includes HA capabilities
Dell	PowerEdge R910	4 *Westmere EX Intel E7-4870 (2,4 GHz)	Up to 4 x Compellent Storage (4 HANA Servers : 1 Compellent Storage with 48 x disks (a 600 GB; 10K rpm) and 13 x 200 GB SSD drives	512 GB RAM	OCFS2	SLES for SAP 11 SP1, SP2	Scale out up to 16 nodes, includes HA capabilities
Dell	PowerEdge R910	4 *Westmere EX Intel E7-4870 (2,4 GHz)	Up to 4 x Compellent Storage (4 HANA Servers : 1 Compellent Storage with 48 x disks (a 600 GB; 10K rpm) and 13 x 200 GB SSD drives	512 GB RAM	xfs	SLES for SAP 11 SP2	Scale out up to 16 nodes, includes HA capabilities
Fujitsu	RX600 S6	2 *Westmere EX Intel E7-4870 (2,4 GHz)	1x Eternus NR1000 F3250 /or 1x NetApp 3250 with 48x disks (a 600 GB disks 15k rpm)	256 GB RAM	NFS	SLES for SAP 11 SP2	Scale out limited up to 4 nodes, includes HA capabilities
Fujitsu	RX600 S6	4 *Westmere EX Intel E7-4870 (2,4 GHz)	Up to 4x Eternus NR1000 F3240 or 4 x NetApp 3240 (4 HANA Server : 1 storage system with 48x disks (a 600 GB disks 15k rpm) each system or, Up to 4x Eternus NR1000 F3250 /or 4 x NetApp 3250 (4 HANA Server : 1 storage system with 48x disks (a 600 GB disks 15k rpm) each system	512 GB RAM	NFS	SLES for SAP 11 SP1, SP2	Scale out up to 16 nodes, includes HA capabilities This solution is available in two versions but technically the same
Fujitsu	RX900 S2	8 *Westmere EX Intel E7-8870 (2,4 GHz)	Up to 4x Eternus NR1000 F3240 or 4 x NetApp 3240 (4 HANA Server : 1 Eternus Filer with 72x disks (a 600 GB disks 15k rpm) each Filer or, Up to 4x Eternus NR1000 F3250 /or 4 x NetApp 3250 (4 HANA Server : 1 storage system with 72x disks (a 600 GB disks 15k rpm) each system	1 TB RAM	NFS	SLES for SAP 11 SP1, SP2	Scale out up to 16 nodes, includes HA capabilities This solution is available in two versions but technically the same
Hitachi	Compute Blade 2000 2* X57A2	4 *Westmere EX Intel E7-8870 (2,4 GHz)	1* Hitachi VSP up to 16 nodes (4 HANA Server : 48x disks (a 300GB)	512 GB RAM	ext3	SLES for SAP 11 SP1, SP2	Scale out up to 16 nodes, includes HA capabilities
Hitachi	Compute Blade 2000 4* X57A2	8 *Westmere EX Intel E7-8870 (2,4 GHz)	1* Hitachi VSP up to 16 nodes (4 HANA Server : 48x disks (a 600GB)	1 TB RAM	xfs	SLES for SAP 11 SP2	Scale out up to 16 nodes, includes HA capabilities

# SAP HANA PAM: Supported Hardware Platforms for SAP HANA Scale out 6/8

HW Vendor	Server System	CPU	Storage	Memory	File System	Operating Systems	Restrictions & Comments
Huawei	FusionCube E9000	4 *Westmere EX Intel E7-4870 (2,4 GHz)	FusionStorage (1 HANA Blade node : 1 storage blade node with FusionStorage 2* 2.4TB SSD)	512 GB RAM	xfs, ocfs2	SLES for SAP 11 SP2	Scale out up to 16 nodes, includes HA capabilities
Huawei	E9000	4 *Westmere EX Intel E7-4870 (2,4 GHz)	Up to 4x S5600T storages (4 HANA Server : 1 S5600T storage with 10*2.5"400G SSD Log volume as RAID 5, 38*2.5"600G 10K SAS Data volume as 4*RAID 5	512 GB RAM	xfs	SLES for SAP 11 SP2	Scale out up to 16 nodes, includes HA capabilities
HP	BL680c G7	4 *Westmere EX Intel E7-4870 (2,4 GHz)	Up to 4 x HP P6500 EVA (4 HANA Server : 1 HP P6500 EVA with 48x disks (a 600 GB disks 10k rpm) each Filer	512 GB RAM	NFS	SLES for SAP 11 SP1, SP2	Scale out up to 16 nodes, includes HA capabilities NFS File System with HP X9300 Network Storage Gateway ( 2 HANA nodes : 1 HP X9300)
HP	BL680c G7	4 *Westmere EX Intel E7-4870 (2,4 GHz)	Up to 4 x 4x HP 3PAR StoreServ 7400 4-node with 48* 900GB SAS disks (4 HANA server - 1 StorServ 7400)	512 GB RAM	xfs	SLES for SAP 11 SP2	Scale out up to 16 nodes, includes HA capabilities
IBM	x3690 X5	2 *Westmere EX Intel E7-2870 (2,4 GHz)	Local attached storage: Log volume: 2 controllers with 8* 200GB SSD each, using GPFS Data volume: included in Log volume capacity	256 GB RAM	GPFS	SLES for SAP 11 SP1, SP2	Scale out up to 16 nodes, includes HA capabilities (please consider SAP Note 1650046)
IBM	x3950 X5 x3850 X5	4 *Westmere EX Intel E7-8870 (2,4 GHz)	Local attached storage: Log volume: 1* Fusion-io ioDrive Duo 640GB, or 1* Fusion-io ioDrive2 Mono 1.2TB ,using GPFS Data volume: 8* 600GB 10k rpm SAS drives, or 8* 900GB 10k rpm SAS drives	512 GB RAM	GPFS	SLES for SAP 11 SP1, SP2	Scale out up to 56 nodes, includes HA capabilities (please consider SAP Note 1650046)
IBM	x3950 X5 x3850 X5	8 *Westmere EX Intel E7-8870 (2,4 GHz)	Local attached storage: Log volume: 2* Fusion-io ioDrive Duo 640GB, or 2* Fusion-io ioDrive2 Mono 1.2TB, using GPFS Data volume: 16* 600GB 10k rpm SAS drives, or 16* 900GB 10k rpm SAS drives	1 TB RAM	GPFS	SLES for SAP 11 SP1, SP2	Scale out up to 56 nodes, includes HA capabilities (please consider SAP Note 1650046)
NEC	Express5800 - A1080a	4 *Westmere EX Intel E7-8870 (2,4 GHz)	Up to 4x NEC iStorage M500 (4 HANA Server : 1 Storage with 48x disks (600GB; 10k rpm)	512 GB	OCFS2	SLES for SAP 11 SP2	Scale out up to 16 nodes, includes HA capabilities
VCE	UCS B440 M2	4 *Westmere EX Intel E7-4870 (2,4 GHz)	Up to 4 x VNX 5300 (4 HANA Servers : 1 VNX 5300 storage array with 55 xdisks (300GB & 600GB 10k rpm) each storage array	512 GB	ext3, xfs	SLES for SAP 11 SP2	Scale out up to 16 nodes, includes HA capabilities

# SAP HANA PAM: Additional HW platforms for SAP Business Suite, powered by SAP HANA 7/8

HW Vendor	Server System	CPU	Storage	Memory	File System	Operating Systems	Restrictions & Comments
Cisco	UCS C460 M2	4*Westmere EX Intel E7-4870 (2,4 GHz)	Log volume: 1* Fusion-io ioDrive2 1.2 TB, or 2* Fusion-io ioDrive 1.2 TB as RAID 1 Data volume: 12* disks 600GB 10k rpm, as RAID 5	1 TB RAM	ext3, xfs	SLES for SAP 11 SP2	This configuration is only supported for ERP, CRM and SCM powered by SAP HANA
Dell	R910	4*Westmere EX Intel E7-4870 (2,4 GHz)	Log volume: 1* Fusion-io ioDrive2 1.2 TB Data volume: 16* 600 GB 10k rpm, as RAID 6	1 TB RAM	ext3, xfs	SLES for SAP 11 SP2	This configuration is only supported for ERP, CRM and SCM powered by SAP HANA
Fujitsu	RX600 S6	4*Westmere EX Intel E7-4870 (2,4 GHz)	Log volume: 1* Fusion-io ioDrive2 1.2 TB, or 2* Fusion-io ioDrive 1.2 TB as RAID 1 Data volume: 8* 600 GB disks 10k rpm as RAID-5 (incl. BBU)	1 TB RAM	xfs	SLES for SAP 11 SP2	This configuration is only supported for ERP, CRM and SCM powered by SAP HANA
Fujitsu	RX900 S2	8 *Westmere EX Intel E7-8870 (2,4 GHz)	Log volume: 2* Fusion-io ioDrive2 1.2 TB, or 4* Fusion-io ioDrive 1.2 TB as RAID 1 Data volume: 18x 900 GB disks 10k rpm as RAID-5 (incl. BBU)	2 TB RAM	xfs	SLES for SAP 11 SP2	This configuration is only supported for ERP, CRM and SCM powered by SAP HANA
Fujitsu	RX900 S2	8 *Westmere EX Intel E7-8870 (2,4 GHz)	Log volume: 4* Fusion-io ioDrive2 1.2 TB as RAID 0 Data volume: 24x 900 GB disks 10k rpm as RAID-5 (incl. BBU)	4 TB RAM	xfs	SLES for SAP 11 SP2	This configuration is only supported for ERP, CRM and SCM powered by SAP HANA
Fujitsu	PQ1800E2	8*Westmere EX Intel E7-8870 (2,4 GHz)	Log volume: 2* Fusion-io ioDrive2 1.2 TB as RAID 0, or 4* Fusion-io ioDrive2 1.2 TB as RAID 1 Data volume: 16* 600 GB disks 10k rpm configured as RAID-5 (incl. BBU)	2 TB RAM	xfs	SLES for SAP 11 SP2	This configuration is only supported for ERP, CRM and SCM powered by SAP HANA
Fujitsu	PQ1800E2	8*Westmere EX Intel E7-8870 (2,4 GHz)	Log volume: 4* Fusion-io ioDrive2 1.2 TB as RAID 0 Data volume: 32* 600 GB disks 10k rpm configured as RAID-5 (incl. BBU)	4 TB RAM	xfs	SLES for SAP 11 SP2	This configuration is only supported for ERP, CRM and SCM powered by SAP HANA
Hitachi	Compute Blade 2000 4 * X57A2	8 * Westmere EX Intel E7-8870 2,4 GHz	Log volume: 2*Fusion-io ioDrive 1.2TB (or 4*Fusion-io ioDrive 1.2TB as RAID1) Data volume: 30x 300 GB disks 10k rpm as RAID-5 over FC on HUS130	2 TB RAM	xfs	SLES for SAP 11 SP2	This configuration is only supported for ERP, CRM and SCM powered by SAP HANA
Hitachi	Compute Blade 2000 4 * X57A2	8 * Westmere EX Intel E7-8870 2,4 GHz	Log volume: 4*Fusion-io ioDrive 1.2TB as RAID1 Data volume: 30x 300 GB disks 10k rpm as RAID-5 over FC on HUS130	4 TB RAM	xfs	SLES for SAP 11 SP2	This configuration is only supported for ERP, CRM and SCM powered by SAP HANA

The above listed additional hardware configurations are specific to and limited for use with ERP, CRM and SCM powered by SAP HANA. All other single nodes are also validated for OLTP workloads and may be used with SAP Business Suite, powered by SAP HANA. Please consider SAP Note 1825774.



# SAP HANA PAM: Additional HW platforms for SAP Business Suite, powered by SAP HANA 8/8

HW Vendor	Server System	CPU	Storage	Memory	File System	Operating Systems	Restrictions & Comments
Huawei	RH5885	8 *Westmere EX Intel E7-8870 (2,4 GHz)	Log volume: 2* ES3000 SSD card 1.2TB, as RAID 0 Data volume: 2* (8* 900GB disks 10k rpm as RAID 5)	2 TB RAM	xfs	SLES for SAP 11 SP2	This configuration is only supported for ERP, CRM and SCM powered by SAP HANA
Huawei	RH5885	8 *Westmere EX Intel E7-8870 (2,4 GHz)	Log volume: 4* ES3000 SSD card 1.2 TB, as RAID 0 Data volume: 2* (12* 900GB disks 10k rpm as RAID 5)	4 TB RAM	xfs	SLES for SAP 11 SP2	This configuration is only supported for ERP, CRM and SCM powered by SAP HANA
HP	DL980 G7	4 * Westmere EX Intel E7-4870 2,4 GHz	Log volume : 2*Fusion-io ioDrive 2TB as RAID1 Data volume: 24* 450 GB disks 10k rpm as RAID5	1 TB RAM	xfs	SLES for SAP 11 SP2	This configuration is only supported for ERP, CRM and SCM powered by SAP HANA
HP	DL980 G7	8 * Westmere EX Intel E7-4870 2,4 GHz	Log volume : 2*Fusion-io ioDrive 2TB as RAID1 Data volume: 24* 450 GB disks 10k rpm as RAID5	2 TB RAM	xfs	SLES for SAP 11 SP2	This configuration is only supported for ERP, CRM and SCM powered by SAP HANA
HP	DL980 G7	8 * Westmere EX Intel E7-4870 2,4 GHz	Log volume : 4*Fusion-io ioDrive 2TB as RAID1 Data volume : 50* 450 GB disks 10k rpm as RAID5	4 TB RAM	xfs	SLES for SAP 11 SP2	This configuration is only supported for ERP, CRM and SCM powered by SAP HANA
IBM	x3950 X5 or x3850 X5	4 *Westmere EX Intel E7-8870 (2,4 GHz)	Log volume : 1* Fusion-io ioDrive2 Mono 1.2TB, using GPFS Data volume: 8* 900GB 10k rpm SAS drives as RAID 5	1 TB RAM	GPFS	SLES for SAP 11 SP2	This configuration is only supported for ERP, CRM and SCM powered by SAP HANA
IBM	x3950 X5 or X3850 X5	8 *Westmere EX Intel E7-8870 (2,4 GHz)	Log volume: 2* Fusion-io ioDrive2 Mono 1.2TB using GPFS Data volume: 16* 900GB 10k rpm SAS drives as 2*RAID 5	2 TB RAM	GPFS	SLES for SAP 11 SP2	This configuration is only supported for ERP, CRM and SCM powered by SAP HANA
IBM	x3950 X5 or X3850 X5	8 *Westmere EX Intel E7-8870 (2,4 GHz)	Log volume: 4* Fusion-io ioDrive2 Mono 1.2TB using GPFS Data volume:24* 900GB 10k rpm SAS drives configured as 2*RAID 5	4 TB RAM	GPFS	SLES for SAP 11 SP2	This configuration is only supported for ERP, CRM and SCM powered by SAP HANA
NEC	Express5800 - A1080a	8 *Westmere EX Intel E7-8870 (2,4 GHz)	Log volume: 5 * Virident FlashMax 400 GB , as RAID 0 Data volume: 12 * 900 GB 10k rpm, as (2 * RAID 5) RAID0	2 TB RAM	xfs	SLES for SAP 11 SP2	This configuration is only supported for ERP, CRM and SCM powered by SAP HANA

The above listed additional hardware configurations are specific to and limited for use with ERP, CRM and SCM powered by SAP HANA. All other single nodes are also validated for OLTP workloads and may be used with SAP Business Suite, powered by SAP HANA. Please consider SAP Note 1825774.