

# Server Automation Managed Server Support

HP Server Automation (10.0-10.02) Enterprise Edition

August 2014

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Document Release Date: September 10, 2015

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OS Vendor	Managed Platform <sup>3</sup>	Architecture	Versions Supported	Agent	OS Provisioning <sup>18</sup>	Patching <sup>1</sup>	Added in Release (before SA 10.0 if blank)	Notes
CentOS	CentOS 7	x86_64	GA	Y	Y <sup>20</sup>	Extended	Released as content through HPLN <sup>24</sup>	See footnotes on YUM <sup>22, 23</sup>
	CentOS 6	x86_32 x86_64	GA-6.5	Y	Y	Extended	6.4 in 10.0 6.5 in 10.02	See footnotes on YUM <sup>22, 23</sup>
	CentOS 5	x86_32 x86_64	5.3-5.10	Y	Y	Extended	5.9 in 10.0 5.10 in 10.02	See footnotes on YUM <sup>22, 23</sup>
Citrix	XenServer 6	x86_32 x86_64	GA, 6.0.2, 6.1.0, 6.2.0	Y	Y	N	6.2.0 in 10.01	See footnotes on YUM <sup>22, 23</sup> See note for provisioning on XenServer guest VM <sup>21</sup>
	XenServer 5	x86_32 x86_64	5.5, 5.6, 5.6 FP1, 5.6 SP2	Y	Y	N		See footnotes on YUM <sup>22, 23</sup> See note for provisioning on XenServer guest VM <sup>21</sup>
HP	HP-UX 11iv3 (11.31) <sup>5</sup>	PA-RISC 2.0	All	Y	N	Extended		OS Provisioning only via native HP-UX Ignite
		IA_64	All	Y	Y	Extended		OS provisioning via Golden images
	HP-UX 11iv2 (11.23) <sup>5</sup>	PA-RISC 2.0	All	Y	N	Extended		OS Provisioning only via native HP-UX Ignite
		IA_64	All	Y	Y	Extended		OS provisioning via Golden images
	HP-UX 11iv1 (11.11) <sup>5</sup>	PA-RISC 2.0	All	Y	N	Extended		OS Provisioning only via native HP-UX Ignite



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IBM	AIX 7.1	Power	All	Y	N	Basic		OS Provisioning only via native AIX NIM See footnote on Discovered Software <sup>17</sup> See footnote on YUM <sup>23</sup>
	AIX 6.1	Power	All	Y	N	Basic		OS Provisioning only via native AIX NIM See footnote on YUM <sup>23</sup>
	VIOS 2.2	Power	2.2.3.x	Y	N	N	Released as content through HPLN <sup>24</sup>	
Microsoft	Windows Server 2012 R2 (Datacenter, Standard)	x86_64	GA	Y	Y <sup>19</sup>	Full	10.02	See Windows Note 1 Available as content via HPLN for SA 10.0 and SA 10.01 <sup>24</sup>
Microsoft	Windows Server 2012 (Datacenter, Standard, Foundation, Server Core, Essentials)	x86_64	GA	Y	Y <sup>19</sup>	Full		See Windows Note 1
Microsoft	Windows Server 2008 R2 for Itanium Based-Systems	IA64	GA-SP1	Y	Y	Full	SP1 in 10.0	See Windows Note 1
	Windows Server 2008 R2 (Standard, Enterprise, Datacenter, Web, Server Core) <sup>4</sup>	x86_64	GA-SP1	Y	Y <sup>19</sup>	Full		See Windows Note 1



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Microsoft	Windows Server 2008 (Standard, Enterprise, Datacenter, Web, Server Core)	x86_32 x86_64	GA-SP2	Y	Y <sup>19</sup>	Full		See Windows Note 1
Microsoft	Windows Server 2003 R2 (Standard, Enterprise, Datacenter, Web)	x86_32 x86_64	SP1-SP2	Y	Y <sup>19</sup>	Full		See Windows Note 1
	Windows Server 2003 (Standard, Enterprise, Datacenter, Web)	x86_32 x86_64	SP1-SP2	Y	Y <sup>19</sup>	Full		See Windows Note 1
Microsoft	Windows XP Professional	x86_32	SP2-SP3	Y	Y	Full		See Windows Note 1
Novell	SuSE Linux Enterprise Server 12	x86_64	GA	Y	Y <sup>20</sup>	Extended	Released as content through HPLN <sup>24</sup>	See footnotes on YUM <sup>22, 23</sup>
	SuSE Linux Enterprise Server 11	x86_32 x86_64	GA-SP3	Y	Y	Extended	SP3 in 10.01	See footnotes on YUM <sup>22, 23</sup>
		zSeries	SP1-SP3	Y	N	Extended	SP3 in 10.01	See footnotes on Discovered Software (zSeries) <sup>16</sup> and YUM <sup>22, 23</sup>
		power	GA-SP3	Y	Y	Extended	SP3 in 10.01	See footnotes on Discovered Software (power) <sup>15</sup> and YUM <sup>22, 23</sup>



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Novell	SuSE Linux Enterprise Server 10	power	SP3-SP4	Y	Y	Extended		See footnotes on Discovered Software (power) <sup>15</sup> and YUM <sup>22, 23</sup>
		zSeries	SP3-SP4	Y	N	Extended		See footnotes on Discovered Software (zSeries) <sup>16</sup> and YUM <sup>22, 23</sup>
		x86_32 x86_64	SP4	Y	Y	Extended		See footnotes on YUM <sup>22, 23</sup>
			GA-SP3	Y	Y	Extended		See footnotes on YUM <sup>22, 23</sup>
Novell	Open Enterprise Server 11	x86_64	GA-SP1	Y	Y	Extended		See footnote on YUM <sup>23</sup>
	Open Enterprise Server 2	x86_32 x86_64	SP2-SP3	Y	Y	Extended		See footnote on YUM <sup>23</sup>
Oracle	Oracle Linux 7	x86_64	GA	Y	Y <sup>20</sup>	Full	Released as content through HPLN <sup>24</sup>	See footnotes on YUM <sup>22, 23</sup>
	Oracle Linux 6	x86_32 x86_64	GA-6.5	Y	Y	Full	6.4 in 10.0 6.5 in 10.02	See footnotes on YUM <sup>22, 23</sup>
	Oracle Enterprise Linux 5	x86_32 x86_64	5.1-5.10	Y	Y	Full	5.9 in 10.0 5.10 in 10.02	See footnotes on YUM <sup>22, 23</sup>



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Oracle	Solaris 11 <sup>8</sup>	SPARC - Sun4u SPARC- Sun4v (Niagara)	GA - 11.1	Y	Y	Full	11.1 in 10.02	See Solaris Note 1 See footnote on YUM <sup>23</sup>
		x86_64	GA - 11.1	Y	Y	Full	11.1 in 10.02	See Solaris Note 1 See footnote on YUM <sup>23</sup>
	Solaris 10 <sup>8</sup>	SPARC - Sun4u SPARC- Sun4v (Niagara)	U9-U11	Y	Y	Full	U11 in 10.0	See Solaris Note 1 See footnote on YUM <sup>23</sup>
			GA-U8	Y	Y	Full		See Solaris Note 1 See footnote on YUM <sup>23</sup>
		x86_32 x86_64	U9-U11	Y	Y	Full	U11 in 10.0	See Solaris Note 1 See footnote on YUM <sup>23</sup>
			GA-U8	Y	Y	Full		See Solaris Note 1 See footnote on YUM <sup>23</sup>
Red Hat	RHEL 7	x86_64	GA	Y	Y <sup>20</sup>	Full	Released as content through HPLN <sup>24</sup>	See footnotes on YUM <sup>22, 23</sup>



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Red Hat	RHEL 6	x86_32 x86_64	GA-6.5	Y	Y <sup>19</sup>	Full	6.4 in 10.0 6.5 in 10.02	See footnotes on YUM <sup>22, 23</sup>
		zSeries	GA-6.4	Y	N	Full	6.3-6.4 in 10.0	See footnotes on Discovered Software (zSeries) <sup>16</sup> and YUM <sup>22, 23</sup>
		power	GA-6.4	Y	Y	Full	6.4 in 10.0	See footnotes on Discovered Software (power) <sup>15</sup> and YUM <sup>22, 23</sup>
Red Hat	RHEL 6 Desktop - (Client and Workstation)	x86_32 x86_64	GA	Y	Y	Full	See footnotes on Discovered Software <sup>17</sup> and YUM <sup>22, 23</sup>	
Red Hat	RHEL 5 - (Advanced Platform)	x86_32 x86_64	GA-5.10	Y	Y <sup>19</sup>	Full	5.9 in 10.0 5.10 in 10.02	See footnotes on YUM <sup>22, 23</sup>
		IA_64	GA-5.9	Y	Y	Full	5.9 in 10.0	See note on Discovered Software (IA_64) <sup>14</sup> and YUM <sup>22, 23</sup>
		power	5.2-5.9	Y	Y	Full	5.9 in 10.0	See footnotes on Discovered Software (power) <sup>15</sup> and YUM <sup>22, 23</sup>
		zSeries	5.4-5.9	Y	N	Full	5.7-5.9 in 10.0	See footnotes on Discovered Software (zSeries) <sup>16</sup> and YUM <sup>22, 23</sup>



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Red Hat	RHEL 5 - (base server)	x86_32 x86_64	GA-5.10	Y	Y <sup>19</sup>	Full	5.9 in 10.0 5.10 in 10.02	See footnotes on YUM <sup>22, 23</sup>
		IA_64	GA-5.9	Y	Y	Full	5.9 in 10.0	See note on Discovered Software (IA_64) <sup>14</sup> and YUM <sup>22, 23</sup>
		power	5.2-5.9	Y	Y	Full	5.9 in 10.0	See footnotes on Discovered Software (power) <sup>15</sup> and YUM <sup>22, 23</sup>
		zSeries	5.4-5.9	Y	N	Full	5.7-5.9 in 10.0	See footnotes on Discovered Software (zSeries) <sup>16</sup> and YUM <sup>22, 23</sup>
Red Hat	RHEL 5 Desktop	x86_32 x86_64	GA-5.3	Y	Y	Full	See footnotes on YUM <sup>22, 23</sup>	
VMware	ESXi 6.0	x86_64	GA	N	Y <sup>20</sup>	N	Released as content through HPLN <sup>24</sup>	
VMware	ESXi 5.5	x86_64	GA	N	Y <sup>20</sup>	N	10.02	Available as content via HPLN for SA 10.0 and SA 10.01 <sup>24</sup>
VMware	ESXi 5.1	x86_64	GA	N	Y <sup>20</sup>	N		
VMware	ESXi 5.0	x86_64	GA-U1	N	Y <sup>20</sup>	N		



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VMware	ESX 4.1	x86_64	GA-U3	Y	Y	N		See footnote on YUM <sup>23</sup>
	ESXi 4.1 Embedded	x86_64	GA-U3	N	N	N		
	ESXi 4.1 Installable	x86_64	GA-U3	N	Y <sup>20</sup>	N		
VMware	ESX 4.0	x86_64 x86_32	GA-U4	Y	Y	N		See footnote on YUM <sup>23</sup>
	ESXi 4.0 Embedded	x86_64 x86_32	GA-U4	N	N	N		
	ESXi 4.0 Installable	x86_64 x86_32	GA-U4	N	N	N		

<sup>1</sup> "Basic": simple patch remediation, but may not have full metadata (dependencies, supersedence, etc). "Extended" includes metadata support (dependencies, supersedence, etc.).  
<sup>2</sup> "Full": includes integrated patch import from vendor. "N": no patching support is available

<sup>2</sup> SAN is supported on all managed server platforms.

<sup>3</sup> The supported managed server platforms herein, are also supported in virtual machines when the virtual machine vendor also supports that version or release of the managed platform.

<sup>5</sup> Virtualization support is on nPars, vPars 5.x, and Integrity VM 4.x servers only.

<sup>8</sup> Guest-domain Solaris LDOMs are supported for server management, but without virtualization management and OS provisioning. The solution at this point does not have any support for creating, starting or stopping LDOMs.

<sup>14</sup> Discovered Software is not supported on IA 64bit servers (please see QC88891 for more details).

<sup>15</sup> Discovered Software is not supported on POWER-PC Architecture (please see QC104855 for more details).

<sup>16</sup> Discovered Software has not been tested on zSeries platforms and is not supported.





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								<sup>17</sup> Discovered Software has not been tested on RHEL 6 Workstation, RHEL 6 Client platforms and is not supported.
								<sup>18</sup> OS Build Plan (OSBP) is supported only on the platforms indicated.
								<sup>19</sup> OS Build Plan (OSBP) is supported on this platform.
								<sup>20</sup> OS Build Plan (OSBP) is supported on this platform but not OS Sequence.
								<sup>21</sup> Citrix supports network boot only for Windows guests; therefore, only Windows OS provisioning is supported for XenServer guest VMs
								<sup>22</sup> On all marked platforms, SA Patching for Linux supports native YUM 3.0.1 or later.
								<sup>23</sup> SA does not support src.rpm because the software remediation is leveraging YUM, which does not support src.rpm natively.
								<sup>24</sup> Support for managed platforms is sometimes made available between releases and is delivered as content via HP Live Network: <a href="https://hpln.hp.com/group/managed-platform-content-server-automation">https://hpln.hp.com/group/managed-platform-content-server-automation</a>
								Windows 2012 R2 platform content, specifically: <a href="https://hpln.hp.com/node/17751">https://hpln.hp.com/node/17751</a>
								ESXi 5.5 platform content, specifically: <a href="https://hpln.hp.com/node/18257">https://hpln.hp.com/node/18257</a>
								RHEL 7 Server platform content, specifically: <a href="https://hpln.hp.com/node/26323">https://hpln.hp.com/node/26323</a>
								CentOS 7 platform content, specifically: <a href="https://hpln.hp.com/node/20982">https://hpln.hp.com/node/20982</a>
								Oracle Linux 7 platform content, specifically: <a href="https://hpln.hp.com/node/20981">https://hpln.hp.com/node/20981</a>
								ESXi 6.0 platform content, specifically: <a href="https://hpln.hp.com/node/24778">https://hpln.hp.com/node/24778</a>
								SLES 12 platform content, specifically: <a href="https://hpln.hp.com/node/22265">https://hpln.hp.com/node/22265</a>
								VIOS 2.2 platform content, specifically: <a href="https://hpln.hp.com/node/26456">https://hpln.hp.com/node/26456</a>

**Solaris Note 1:** Requires Patches: SUNWadm, SUNWcsl, SUNWcslr (if available for the version), SUNWcsu, SUNWesu, SUNWlibms, SUNlibmsr (if available for the version), SUNWswmt



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**Windows Note 1:** Patching requires MSXML 3.0 (or later), IE 6.0 (or later), Windows Installer 3.1, Windows Update/Automatic Update should be set to Never Check for Updates/Turn off Automatic Updates.

**Deprecation Note:** For support deprecation and removal announcements, see the SA Release Notes.



# Server Automation Virtualization Support

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Vendor	Hypervisor/Virtualization Service	Architecture	OS Version Supported	Actions Supported on Virtual Servers	Added in Release (before SA 10.0 if blank)	Notes
HP	HPVM	Integrity IA64	HP-UX 11iv3	Create, Modify, Delete, Start, Halt, and Shutdown Create, Modify, and Delete vSwitches Configure VLAN		
	vPars	Integrity IA64	HP-UX 11iv3	Create, Modify, Delete, Start, Halt, and Shutdown		
Microsoft <sup>1,2,3,4</sup>	SCVMM Server 2008 R2		See Microsoft documentation for supported OS	Create, Modify, Migrate, Convert to VM Template, Delete, Power On, Power Off, Pause, Suspend, and Shut down guest for VMs Deploy VM from VM Template and Delete VM Templates		SCVMM integration only supports Hyper-V hypervisors. Please refer to Microsoft SCVMM documentation for supported Hyper-V versions.
Oracle	Solaris 11 Global Zone	Sparc x86_32 x86_64	Solaris 11	Create, Modify, Start, Stop, and Remove		
	Solaris 10 Global Zone	Sparc x86_32 x86_64	Solaris 10	Create, Modify, Start, Stop, and Remove		



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[HP Software Support Online](#)

This matrix does not contain all configuration and resource requirements. For more information, download the Server Automation Release Notes for this release from HP Software Support Online.  
 Note: Service releases are implicitly supported by HPSA releases that support the original OS version. HP Software support for any OS, listed or not, ends when the OS Vendor ends support for that platform.  
 For further explanation of the HPSA platform support policy, see the [HP SA Platform Support Statement](#) enclosed in this document.

## Warranty

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Vendor	Hypervisor/Virtualization Service	Architecture	OS Version Supported	Actions Supported on Virtual Servers	Added in Release (before SA 10.0 if blank)	Notes
HP	HPVM	Integrity IA64	HP-UX 11iv3	Create, Modify, Delete, Start, Halt, and Shutdown Create, Modify, and Delete vSwitches Configure VLAN		
VMware <sup>1,2,4</sup>	vCenter 6.0 vCenter 5.5 vCenter 5.1 vCenter 5.0 vCenter 4.1 vCenter 4.0		See VMware documentation for supported OS	Create, Modify, Migrate, Clone, Convert to VM Template, Delete, Power On, Power Off, Suspend, Reset, Shut down guest, and Restart guest for VMs. Deploy VM from VM Template and Delete VM Templates.	vCenter 6.0 was qualified post-release	Please refer to VMware Vcenter documentation for supported Hypervisors

Please refer to the Managed Servers Support Matrix for SA features supported on Hypervisors running as managed servers.

<sup>1</sup> UAPI support for VMware ESX/ESXI and Microsoft HyperV servers are removed. Please refer to the release notes for details.

<sup>2</sup> New UAPI support for VMware vCenter and Microsoft SCVMM is available. Please refer to API documentation for more details.

<sup>3</sup> Support for SCVMM requires use of Powershell 2.0. Other Powershell versions are not supported.

<sup>4</sup> Support for vCenter and SCVMM is limited to features as documented in the SA User Guide. Please refer to the User Guide for more details.

**Deprecation Note:** For support deprecation and removal announcements, see the SA Release Notes.



# Server Automation Core and Satellite Server Support

HP Server Automation (10.0-10.02) Enterprise Edition  
August 2014

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Document Release Date: September 10, 2015

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OS Vendor	Core Platform	Architecture	Versions Supported	Local File System	Added in Release (before SA 10.0 if blank)	Notes
Novell	SuSE Linux Enterprise Server (SLES) 11	x86_64	SP2, SP3	reiserfs	SP2 in 10.0	See platform note 1
	SuSE Linux Enterprise Server (SLES) 10	x86_64	SP2-SP4	reiserfs	SP4 in 10.0	See platform note 1
Oracle	Oracle Enterprise Linux (OEL) 6	x86_64	U3, U5	ext4	U3 in 10.0 U5 in 10.02	See platform note 1
Red Hat	Red Hat Enterprise Linux (RHEL) 6 base server <sup>3</sup> Red Hat Enterprise Linux (RHEL) 6 Advanced Platform <sup>3</sup>	x86_64	U3-U5	ext4,vxfs <sup>2</sup>	U3-U4 in 10.0 U5 in 10.02	See platform notes 1 and 2
Red Hat	Red Hat Enterprise Linux (RHEL) 5 Advanced Platform <sup>4</sup>	x86_64	U4-U10	ext3,vxfs <sup>1</sup>	U9 in 10.01 U10 in 10.02	See platform notes 1 and 2
	Red Hat Enterprise Linux (RHEL) 5 base server <sup>4</sup>	x86_64	U2-U10	ext3,vxfs <sup>1</sup>	U9 in 10.01 U10 in 10.02	See platform notes 1 and 2

<sup>1</sup> This requires Veritas Storage Foundation Basic 5.0 MP3 RP2 or later.

<sup>2</sup> This requires Veritas Storage Foundation Basic 6.01 or later.

<sup>3</sup> RHEL6 GA-U2 are not supported. For RHEL 6 U4, see KB article for the proxy issue workaround: <http://support.openview.hp.com/selfsolve/document/KM00590811>.

<sup>4</sup> For RHEL5 U9, the latest update version kernel 2.6.18-348.16.1.el5 or above is required



# Server Automation Core and Satellite Server Support

HP Server Automation (10.0-10.02) Enterprise Edition

August 2014

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OS Vendor	Core Platform	Architecture	Versions Supported	Local File System	Added in Release (before SA 10.0 if blank)	Notes
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### Platform Notes

Note 1 - Please see this OS under the Managed Server Platform Support. Core servers require SA agents and the same caveats from managed servers apply to core servers as well.

Note 2 - SA 10.0 cores running on VMware ESX VM's are supported when specific requirements are met. For details on these requirements, please download and read the SA 10.0 Standard/Advanced Installation Guide on the <https://softwaresupport.hp.com/manuals> website.

### General Notes

Antivirus software is not supported on SA cores.

IPMP (IP Multi-Pathing) and NIC bonding are supported on core and satellite servers.

SAN (MPIO) is supported.

**Deprecation Note:** For support deprecation and removal announcements, see the SA Release Notes.



# Server Automation Core Database Support

HP Server Automation (10.0-10.02) Enterprise Edition

August 2014

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Document Release Date: September 10, 2015

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Oracle RDBMS Editions		Supported DB Versions <sup>2</sup>	Supported OS/ Architecture	Notes
Enterprise, Standard, Standard Edition One		11.2.0.2, 11.2.0.3, 11.2.0.4	As indicated in table below	<ul style="list-style-type: none"> <li>. Oracle 11.2.0.3 added in SA 10.0.</li> <li>. Oracle 11.2.0.4 added in SA 10.02</li> <li>. Oracle 11.2.0.3.7 is recommended to fix Oracle issues.</li> <li>. Oracle 11.2.0.2 and 11.2.0.3 require patch 13369579 to fix ORA-00600 issues.</li> <li>. Oracle's Premier Support for Oracle Database 11gR1 (11.1) ended on 8/31/2012.</li> </ul>
Oracle RAC		11.2.0.2, 11.2.0.3	RHEL 5 base server (x86_64) <sup>1</sup>	<ul style="list-style-type: none"> <li>. Oracle RAC supports Remote DB Install only.</li> <li>. Oracle 11.2.0.3.7 is recommended to fix Oracle issues.</li> <li>. Oracle 11.2.0.2 and 11.2.0.3 require patch 13369579 to fix ORA-00600 issues.</li> <li>. Oracle's Premier Support for Oracle Database 11gR1 (11.1) ended on 8/31/2012.</li> </ul>

  

Operating Systems/ Architecture	OS Versions <sup>2</sup>	Supported Database Install (Local / Remote DB) <sup>3</sup>	Added in Release (before SA 10.0 if blank)	Notes
HP-UX Itanium	HP-UX 11iv3 (11.31)	Remote only		
IBM AIX on POWER Systems (64-bit)	AIX 5.3	Remote only		
	AIX 6.1			
	AIX 7.1			
IBM Linux on System z	SuSE Linux (SLES) 10 and 11	Remote only	10.0	
	Red Hat Enterprise Linux (RHEL) 5		10.0	Oracle RAC Clusterware Scan not supported in RHEL5.
Linux x86_64	Oracle Linux 4, 5 and 6	Remote only	10.0	
	Red Hat Enterprise Linux (RHEL) 5 and 6	Local and Remote		Oracle RAC Clusterware Scan not supported in RHEL5.
	SuSE Linux (SLES) 10 and 11	Local and Remote	SLES 11 in 10.0	



# Server Automation Core Database Support

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Oracle RDBMS Editions		Supported DB Versions <sup>2</sup>	Supported OS/ Architecture	Notes
Oracle Solaris on SPARC (64-bit)	Solaris 10	Remote only		
	Solaris 11		10.0	Supported only for Oracle 11.2.0.3

<sup>1</sup> SELinux 'permissive' mode is supported.

<sup>2</sup> This matrix does not describe Oracle RDBMS support for specific operating system (OS) versions; it only describes the RDBMS versions and the OS versions supported by the SA Core Database. For Oracle RDBMS certification of OS version compatibility, refer to Oracle's RDBMS Support Matrix documentation.

<sup>3</sup> Local = a database that is installed on the same server as other SA components.  
Remote = a database that is installed on a server other than SA servers.

**Database Upgrade Note:** Please see Oracle documentation for Oracle database upgrade procedures. See the SA 10.0x Oracle Setup for the Model Repository for information about required database configuration for use with SA. To download SA documentation from the HPSW Software Support Online (SSO) portal, click the one of the following links and login with your HP Passport:

[SA 10.0x Oracle Setup for the Model Repository](#)

(This is the standalone guide to the Oracle setup for SA.)

[SA 10.0x Standard/Advanced Installation Guide](#)

(Appendix A of the complete installation guide contains the same content as the standalone document.)

[Get SA Release Notes from the SA Doc Library](#)

(Always see the Release Notes for any additional release-specific caveats. See the *SA Documentation Library* to get the latest Release Notes.)

**Deprecation Note:** For support deprecation and removal announcements, see the SA Release Notes.





# Server Automation Web Client Browser Support

HP Server Automation (10.0-10.02) Enterprise Edition

August 2014

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Document Release Date: September 10, 2015

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Browser	Version	SA Compatibility <sup>1</sup>	Notes
Chrome	6 or later	SA 10.0 or later	
Firefox	3.6 or later	SA 9.10 or later	
Internet Explorer	7, 8, 9, or 10	SA 9.10 or later	
Opera	11 or later	SA 10.0 or later	
Safari	5 or later	SA 10.0 or later	

<sup>1</sup> See the *User Guide: Application Deployment Manager* and the *User Guide: Database and Middleware Automation* for a list of browsers recommended for those components.

Browser Configuration Requirements: To use the SA Web Client, your browser must be configured in the following manner:

- . The browser must support SSL and should provide 128-bit encryption (recommended).
- . Using a pop-up blocker might prevent some functions from working correctly. Either disable the pop-up blocker or use the supported browser's native pop-up blocking function instead of a third-party product.

**Deprecation Note:** For support deprecation and removal announcements, see the SA Release Notes.



# Server Automation Cross-Product Compatibility

HP Server Automation (10.0-10.02) Enterprise Edition

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HP Server Automation	HP Automation Insight	HP BSA Essentials <sup>4</sup>	HP Database and Middleware Automation	HP Live Network connector	HP Network Automation	HP Operation Orchestration	HP Storage Essentials <sup>3</sup>	HP Universal CMDB <sup>5</sup>	Notes
10.0	1.0	9.10, 9.11, 9.20	10.10	3.40 or higher	9.0, 9.10, 9.11, 9.20, 9.21, 9.22	9.0 <sup>1</sup> , 10.0 <sup>2</sup>	9.4.0, 9.4.1, 9.5, 9.5.1	9.05 Content Pack 10 CUP 6 or higher, 10.01 Content Pack 12	
10.01	1.0	9.10, 9.11, 9.20	10.10	3.40 or higher	9.0, 9.10, 9.11, 9.20, 9.21, 9.22	9.0 <sup>1</sup> , 10.0 <sup>2</sup>	9.4.0, 9.4.1, 9.5, 9.5.1	9.05 Content Pack 10 CUP 6 or higher, 10.01 Content Pack 12	
10.02	1.0	9.10, 9.11, 9.20	10.10	3.40 or higher	9.0, 9.10, 9.11, 9.20, 9.21, 9.22, 10.00	9.0 <sup>1</sup> , 10.0 <sup>2</sup>	9.4.0, 9.4.1, 9.5, 9.5.1	9.05 Content Pack 10 CUP 6 or higher, 10.01 Content Pack 12	

<sup>1</sup> Support enabled by OO-SA 9.00.08 content

<sup>2</sup> Support enabled by OO-SA 10.00.01 content

<sup>3</sup> SA is compatible with Storage Essentials via the SE Connector.

<sup>4</sup> BSAE Version Notes:

**Report streams:** Compliance reports are available in the sar78\_reports stream. New reports in SA 9.0 are available in the bsaesa\_reports stream.

The software discovery reports are available in the software\_discovery\_reports stream.

**BSAE 9.1x+:** BSAE releases 9.1x or higher no longer support Solaris.

**BSAE 9.20:** The HP Software team strongly recommends using BSAE 9.20 or later. This release introduces significant feature, functionality, and performance improvements and has been tested and qualified with SA 9.1x -- it is fully supported. For details, see the BSAE 9.20 Release Notes, which can be downloaded from HP Software Support Online:

<http://www.hp.com/go/hpsoftwaresupport>

**Note:** SA integration support is not an endorsement of the BSA Essentials (BSAE) product version or configuration. See BSAE documentation for recommended versions and configurations.

<sup>5</sup> uCMDB = HP Universal Configuration Management Database; CP = uCMDB Content Pack; CUP = uCMDB Cumulative Update Package

**Deprecation Note:** For support deprecation and removal announcements, see the SA Release Notes.



# HP Server Automation Platform Support

HP Server Automation (HPSA) is a heterogeneous server management product which manages a wide variety of OS platforms running Microsoft Windows and vendor-specific versions of UNIX and Linux operating systems.

## Document Purpose

This document defines the general platform support policy for all HPSA versions. This policy covers the scope of supported platforms for HPSA components including:

- Managed Devices
- Core and Satellite Infrastructure
- Model Repository Database

## Deviations from the General Platform Support Policy

HP strives to maintain conformance with the general platform support policy. Any deviation from this policy will be clearly documented in the Release Notes for the specific version. Customers should always review any limitations stated in the Release Notes.

## Glossary of Terms

### Platform Backward Compatibility Assumption

Most platform vendors claim that their platforms are *backward compatible*, meaning that existing software should continue to run successfully on newer vendor platform releases. Platform releases that violate this assumption may cause failures in Server Automation functions.

### Qualified Platform

A *qualified* platform is a platform that has been tested by HP to ensure it is fit-for-purpose and compatible with other major HPSA system components. A *non-qualified* platform is a supported platform release that has not been tested by HP in this manner. A non-qualified platform may or may not prove to be fit-for-purpose and compatible.

For example, the current Server Automation Support Matrix lists RedHat Enterprise Linux 5.7 as the latest qualified platform with HPSA version 9.06, and should RedHat release a version 5.8 in the future, version 5.8 would be deemed a *non-qualified* version at the time of its release.

### Normal Support Period

All OS vendors publish a support lifecycle and end of support dates for their products. While each vendor uses different nomenclature, they each have a period while the product is covered under the normal terms of support for their standard support (the Normal Support Period) and maintenance fee and a period where the service is limited and/or the rate of support increases (the Premium Support Period). HP's support for OS products is aligned to the Normal Support Period.

### Risks of Deploying a Non-Qualified Platform

There is an inherent risk should a customer choose to deploy a non-qualified platform onto a managed device or infrastructure server. The concept of vendor backward compatibility guarantees, coupled with the inherent risk a customer assumes when deploying a non-qualified platform, are key premises of the inherent support statements in this HP Server Automation Generalized Platform Support Statement.

## Service Release

Each Platform Vendor uses their own release nomenclature but all vendors provide a mechanism for Service Releases (SRs) which include security updates, bug fixes and minor enhancements. These SRs are stable with respect to Application Programming Interface (API) and Application Binary Interface (ABI). Service Releases can generally be applied as patches to a running system (reboot may be required to enact the changes to memory) rather than an upgrade which is generally applied to a halted OS. Some examples of how vendors designate their SRs are:

- **Red Hat** designates Red Hat Enterprise Linux (RHEL) SRs as minor versions, e.g. 5.6, 5.7, 5.8 are SRs of RHEL v.5 but RHEL v.6 is a distinct release from RHEL v.5
- **Microsoft** designates Windows Server SRs as Service Packs, e.g. Server 2008 SP3 is a SR of Server 2008 but Server 2008 R2 is a distinct release from Server 2008
- **Oracle** designates Solaris SRs as Update (U) releases, so Solaris 10 U9 is a SR of Solaris 10 but Solaris 11 is a distinct release for Solaris 10
- **VMware** designates vSphere SRs as Update (“U”) releases, so vSphere 4.0 U1 is a SR of vSphere 4.0 but vSphere 4.1 is a distinct release from vSphere 4.0.
- **Novell** designates SUSE Linux Enterprise Server (SLES) SRs as Service Packs, e.g. SLES 10 SP1, SLES 10 SP2, SLES 10 SP3 are SRs of SLES v.10 but SLES v.11 is a distinct release from SLES v10

## Managed Devices

### Physical OS Platform Set for Managed Devices

The set of supported Managed Device platforms is governed by the following policies:

- The HPSA Support Compatibility Matrix (SCM) specifies the definitive set of Managed Server OS platform versions which are tested to be compatible with any specific HPSA release. Customers should refer to the SCM for documentation of supported Major versions and qualified minor versions.
- Newer Service Releases of qualified major versions are implicitly supported on a managed server.
  - For example, if the SCM indicates that Red Hat Enterprise Linux Server v6.2 is qualified, then future 6.x updates of RHEL Server are implicitly supported, whereas v7.x versions will not be considered supported until explicitly documented as such in the SCM.
  - Because there may be functional differences between current and future versions of a managed server platform, there is no guarantee of compatibility. HP will assess the impact of supporting the changes made by the vendor and reserves the right to support the specific functions affected by the platform vendor’s changes in a future HPSA release. HPSA patches or hotfixes may be delivered and required to provide compatibility in accordance with the normal support process.
- Subsequent Major, Minor, and Patch Releases of HPSA will maintain support for all previously supported Managed Device OS versions through the OS Vendor’s Normal Support Period and in accordance with HP Software’s lifecycle policy. For instance, because HPSA v9.11 supports Windows Server 2003, all newer releases of HPSA will continue to support Windows Server 2003 until it reaches Microsoft’s end of support date.
- HP warrants that application of patch content to Managed Devices does not limit supportability of the resultant environment. Specifically:
  - Application of patch content does not invalidate the supportability of that managed server.
  - Upgrading or patching the HPSA Core or Satellite components is generally not required to continue support for management of these patched managed servers.
  - Upgrading the HPSA Agent is generally not required to continue support for management of these patched managed servers.
- Functional limitations inherent to the Managed Device OS platform may limit the features available in HPSA (i.e. HPSA can only automate actions to the extent that the actions themselves can be performed on the Managed Devices).

### Agent Compatibility and Upgrade Requirements

As documented below, the HPSA Core and Satellite infrastructure are compatible with older HPSA Agent versions. The set of supported Managed Device platforms is determined according to the following policy:

- Newer HPSA Core and Satellite versions are tested for compatibility with all actively supported older HPSA Agent versions. While every effort is made to allow newer Core and Satellite features to work with older Agent versions, it cannot be guaranteed.
- Any features supported on the older Agent version should continue to function with newer Core and Satellite versions. Any limitations on legacy feature usage are specifically noted in the Release Notes.
- The Agent upgrade is verified to work with all actively supported Agent versions. Customers should verify that out-of-support Agent versions are upgraded prior to upgrade of Core and Satellite infrastructure.



## Agent Compatibility with Virtualization

The HPSA Agent relies on Standard OS Interfaces for operation. When used in the context of a virtual guest OS, the HPSA Agent is verified to be compatible with all Virtualization technologies which are documented in the SCM.

## Locale Support

HPSA supports all locales when using a qualified managed server platform. All managed server platforms are qualified on EN locale by default. Additionally, a representative set of locales are qualified on certain platforms, as described below.

By qualified, we mean that HPSA has tested the platform with the locale to ensure it is fit-for-purpose and compatible with major HPSA system components and functions.

By supported non-qualified, we mean that HPSA has not run additional testing to qualify the locale on that platform or platform version, however based on analysis of previous testing results and testing results of other like platforms and locales, we expect it to function as the qualified platforms do. If locale issues are discovered, HPSA will resolve the issue via HPSA Support according to your customer support agreement.

The representative set of languages that have been tested are:

- English (en)
- French (fr)
- German (de)
- Italian (it)
- Japanese (ja)
- Korean (ko)

## Virtualized Platform Support

As documented in the SCM, HPSA supports inventory and control actions for virtualization platforms either through the HPSA Agent or via connection to the virtualization platform API.

### Support for Agent-based virtualization functionality

Support policy for Agent-based virtualization functionality follows the general Agent support policies stated above.

### Support for API-based virtualization capabilities

Scope of support for API-based virtualization capabilities is defined as follows:

- Functional limitations inherent to the virtualization platform or API may limit the features available in HPSA (i.e. HPSA can only automate actions to the extent that the actions themselves can be performed via the API).
- Capabilities available in a specific HPSA version are limited by the extent of integration performed in that version.
- Capabilities which are available via API integration in a specific HPSA version will continue to be available in new Major and Minor versions. Any exceptions will be noted clearly in the Release Notes.
- The HPSA Support Compatibility Matrix (SCM) specifies the definitive set of virtualization platform versions which are qualified with any specific HPSA release. Customers should refer to the SCM for documentation of supported Major versions and explicitly tested minor versions.
- Newer virtualization platform Service Releases are implicitly supported.
  - For instance, if the SCM indicates that VMware vSphere v4.0 is tested then future 4.0 "Update X" updates of vSphere are implicitly supported, whereas v4.2 and v5.x versions will not be considered supported until explicitly documented as such in the SCM.
  - Because there may be functional differences between current and future versions of virtualization platform there is no guarantee of compatibility. HP will assess the impact of supporting the changes made by the vendor and reserves the right to support the specific functions affected by the platform vendor's changes in a future HPSA release. Patches or hotfixes may be delivered and required to provide compatibility in accordance with the normal support process.

- HP warrants that application of patch content to virtualization platforms does not limit supportability of the resultant environment. Specifically:
  - Application of patch content does not invalidate the supportability of that managed virtualization platform.
  - Upgrading or patching the HPSA Core or Satellite components is generally not required to continue support for management of these patched virtualization systems.
  - Upgrading the HPSA Agent is generally not required to continue support for management of these patched virtualization systems.

See [Virtual Containers](#) in this document for additional details about support for installation and operation of HPSA Core, Satellite, and Database components on virtual containers.

## Core and Satellite Infrastructure

### Version Compatibility for HPSA Infrastructure

HPSA Core and Satellite infrastructure component releases are designed to be compatible with earlier versions of agents, meaning that a new release of the infrastructure should continue to operate and communicate successfully with older releases of the HPSA Agent. In general, customers must upgrade their systems from the Core out, keeping Core version  $\geq$  Satellite version  $\geq$  Agent version.

Please also review the [Agent Compatibility and Upgrade Requirements](#) section.

From	To	Comments
Newer Core release	Older Core release	Limited Compatibility – Core servers in a mesh must be of the same version and can be of mixed patch levels
Older Core release	Newer Core release	Limited Compatibility – Core servers in a mesh must be of the same version and can be of mixed patch levels
Newer Core release	Older Satellite release	Compatible with currently supported Satellite versions
Older Core release	Newer Satellite release	Not Compatible. Core must be upgraded before Satellites.
Newer Core release	Older Agent release	Compatible with currently supported Agent versions
Older Core release	Newer Agent release	Not Compatible. Core must be upgraded before Agents.
Newer Satellite release	Older Agent release	Compatible
Older Satellite release	Newer Agent release	Not Compatible. Satellite must be upgraded before Agents.

Every effort is made to ensure Infrastructure Core and Satellite components are compatible with each other; however, there may be exceptions where there is symbiosis between infrastructure components of the same HPSA release. As a general rule of thumb, infrastructure components from the same release should always be deployed into a production infrastructure, and not mixed-and-matched with older component versions.

### Physical OS Platform Support for HPSA Infrastructure

The set of supported Core and Satellite OS platforms is governed by the following policies:

- The HPSA Support Compatibility Matrix (SCM) specifies the definitive set of compatible Core and Satellite OS platform versions which are tested to be compatible with any specific HPSA release.
- Subsequent patch releases of HPSA will maintain support for all previously supported Core and Satellite OS platform versions through the OS vendor's Normal Support Period in accordance with HP Software's lifecycle policy or until formally obsolesced.
- Subsequent major and minor releases of HPSA will maintain support for the newest previously supported Core and Satellite OS platform, within the OS Vendor's Normal Support Period in accordance with HP Software's lifecycle policy or until formally obsolesced.
- HPSA Infrastructure Core and Satellite components support application of Service Releases according to the following
  - Customers may apply Service Releases in accordance with vendor recommendations to existing HPSA Cores and Satellites. Service Releases are implicitly supported by all current HPSA releases that support the original OS version (e.g. upgrading to RHEL 5.7 from RHEL 5.4) provided the OS kernel major and minor version is unchanged (minor-minor kernel version updates are supported).

- Customers should only install HPSA components to versions explicitly documented in the HPSA Platform Support Matrix. It is intended that the latest HPSA Consolidated Patch should support all subsequent Service Releases for any OS Release Version that had originally been qualified for the HPSA major release, provided those Service Releases are available at least 60 days prior to release of the HPSA Consolidated Patch. For example, if RHEL v5.4 was supported originally, then RHEL v5.5 through v5.7 should be supported (assuming v5.7 is available 60+ days prior to the release of the HPSA Consolidated Patch).
- Exceptions to this policy will be documented in the Release Notes.

## Virtualized OS Platform Support for HPSA Infrastructure

Operation of HPSA Core and Satellite infrastructure in Virtual Machines (VMs) is supported provided:

- The HPSA application server Core components will be considered supported when executed within VMs, provided customers follow VMWare best practices for managing resource allocation and overall workload to ensure other VMs sharing the same virtualization platform instance do not significantly impact the performance available to the VM hosting the HP Server Automation Core software.
- For Infrastructure and Slice Components, HP reserves the right to ask customers to replicate any potentially performance-related issues in an environment where the VM supporting the HP Server Automation Core software is the sole VM active within the virtualization platform instance.
- Please refer to the Planning and Installation Guide for VM-specific planning/sizing information.

See [Virtual Containers](#) in this document for additional details about support for installation and operation of HPSA Core, Satellite, and Database components on virtual containers.

## Third-Party and Open Source Component Support

HPSA uses several open source and/or third-party components (e.g. the Java Runtime Engine, or JRE). Customers must apply the latest HPSA Consolidated Patch to receive the latest qualified third-party and open source component releases which have been tested to be compatible with HPSA.

## Model Repository Database

### Relational Database Server Support

In an effort to ensure that database server environments are fully supported during an upgrade, migration, or new install of the HPSA software, HP extends its support for relational database servers in the following manner.

The set of supported Relational Database versions and OS platforms is governed by the following policies:

- The HPSA Support Compatibility Matrix (SCM) specifies the definitive set of Relational Database Server platform versions and OS platforms which are tested to be compatible with any specific HPSA release. Customers should refer to the SCM for documentation of supported Major versions and qualified minor versions.
- Customers may apply Database Service Releases such as Oracle Critical Patch Updates (CPUs) and Patch Set Updates (PSUs) in accordance with vendor recommendations to existing HPSA Model Repositories. Service Releases for the Database platform are implicitly supported by all current HPSA releases that support the original Database Version.
- Customers may apply OS platform patches and/or service packs in accordance with vendor recommendations to existing HPSA Model Repositories. Service Releases applied to the OS platform are implicitly supported by all current HPSA releases that support the original OS version (e.g. upgrading to RHEL 5.7 from RHEL 5.4).
- Should the Platform Backward Compatibility Assumption be breached by the database server platform vendor, then HP will assess the impact of supporting the changes made by the vendor and reserves the right to support the specific functions affected by the platform vendor's changes in a future HPSA release.

### Virtualized OS Platform Support for HPSA Model Repository

For the Model Repository, HP reserves the right to ask customers to replicate any issues in an environment where the Model Repository is installed on a supported physical platform. Any issues resulting from interactions between Oracle Database and the VM platform requiring interaction with Oracle support are the sole responsibility of the customer. For information about Oracle's supported virtualization technologies for Oracle Database and RAC products, see Oracle's virtualization matrix.

See [Virtual Containers](#) in this document for additional details about support for installation and operation of HPSA Core, Satellite, and Database components on virtual containers.



# Virtual Containers

## Support for Installation and Operation of HPSA Core, Satellite, and Database Components on Virtual Containers

The SA Support and Compatibility Matrix (SCM) specifies the precise set of OS Platform and Virtualization Hypervisor versions (such as VMware's ESXi 5.1) that were qualified to be compatible with HPSA Core, Satellite and Database components at the time of release.

Support for installing and operating HPSA Core, Satellite and Database components on virtualization hypervisors is guided by the following rules and assumptions:

- A hypervisor version is considered a supported platform for hosting an HPSA Core (both Infrastructure and Slice) and Satellite components provided the following conditions are met:
  - The OS version used is qualified for hosting an SA Core or Satellite, as listed in the HPSA Support and Compatibility Matrix.
  - The OS version is also supported for use with the hypervisor version, as listed in the support matrix of the hypervisor vendor (such as VMware).
- A hypervisor version is considered a supported platform for hosting an HPSA Model Repository provided the following conditions are met:
  - The database and host OS platform versions are listed as a qualified platform combination in the HPSA Support and Compatibility Matrix.
  - The database version is deemed compatible with the hypervisor by the database vendor (such as Oracle) or the hypervisor vendor (VMware).
  - The customer is following database and hypervisor configuration recommendations of their respective vendors.
  - It is the responsibility of the Customer to monitor component and system performance, and tune the hypervisor configuration parameters to ensure performance.
  - If a virtualization-related issue is identified as part of the HPSA Support process, HP reserves the right to request that the customer quiesce other virtualized workloads on the same hypervisor node or replicate the issue on a like physical (non-virtualized) server.
  - As always, Customers should follow industry standard testing practices before applying patch content to their managed servers to validate that no interruption of service occurs as a result.



## SA 10.0x Matrix Document Change Notes

This table lists changes made to the matrix tables after the original document was released.

Date	Description of Change
June 2013	Original release of this document with the SA 10.0 release
November 2013	Updated for SA 10.01 release
May 2014	Added important footnote to the Core & Satellite Platforms table regarding Kernel update requirement for RHEL 5.9, 6.3, and 6.4
August 2014	Updated for SA 10.02 release
September 2014	Updated with information about CentOS 7 and OEL 7
May 2015	Updated with information about ESXi 6 and new link for RHEL 7
September 2015	Updated with information about VIOS 2.2 and new link for RHEL 7