

# HP Service Manager

Software Version: 9.34

For the supported Windows® and UNIX® operating systems

## Support Matrix

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#### About this document:

- Documented Product: Service Manager, Software Version number: 9.34
- Document Release Date: August 2017
- Software Release Date: May 2016

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## Requirements

This section provides information about the supported hardware and software that you must have to successfully install and run Service Manager 9.34.

### Service Manager server

The Service Manager server communicates with the database using the appropriate database client software. The appropriate database client software must be installed and configured on the Service Manager server. The database should reside on a different server, which may use a different operating system. Hewlett-Packard does not make compatibility statements about the operating systems supported by the database. Database vendors are responsible for indicating supported server platforms.

A 32-bit JRE (9.34 patch 5 and later: JRE 8 update 72; before 9.34 patch 5: JRE 7 update 60) is provided in the Service Manager installation for x86-based systems (Windows and Linux) only. For non-x86-based systems, you must pre-install one of the following 32-bit versions of JRE specified for your operating system:

Operating system	Required 32-bit JRE version	Notes
HP-UX	JRE 8 (JRE_8.0.02 or greater) or JRE 7 (JRE_7.0.09 or greater)	JRE 8 is recommended. HP-UX 11.23 supports JRE 7 only.
AIX	JRE 8 (SR1FP10) or JRE 7 (SR8 or greater)	JRE 8 is recommended. The AIX versions that support JRE 8 are AIX7 (7100-03 or higher) and AIX 6 (6100-07 or higher).
Solaris Solaris 10, 11.1	JRE 7 (update 60 or greater)	JRE 7 have reached the end of public updates. Since Oracle does not provide a compatible JRE 8 version for Solaris, HP recommends that customers use an alternate operating system.  For the time being, Service Manager running on Solaris with JRE 7 is still supported under the condition that you have access to the latest JRE 7 updates through Oracle support. Any changes to the Solaris support will be published on the HP Software customer portal and in the latest version of this document.

Operating system	Required 32-bit JRE version	Notes
Solaris 9	JRE 6 (update 20 or greater)	<p>You should perform an extra configuration to run the server on Solaris 9. For more information about the configuration, see the <i>Service Manager 9.34 Interactive Installation Guide</i>.</p> <p>However, we recommend that you upgrade to Solaris 10 or 11.1, as Oracle stopped issuing updates for JRE 6 in February 2013. Additionally, JRE 6 entered the Extended Support phase in December 2013.</p>

## Server platforms

The Service Manager 9.34 server supports the following operating systems:

HP Itanium	<ul style="list-style-type: none"> <li>• HP-UX 11i v3 (11.31)</li> <li>• HP-UX 11i v2 (11.23)</li> </ul>
x86	<ul style="list-style-type: none"> <li>• Windows Server 2008</li> <li>• Red Hat Enterprise Linux 6.0–6.4*, 5.4*</li> <li>• Oracle Enterprise Linux 6.0–6.4*, 5 (Update 4)*</li> <li>• SUSE Linux Enterprise Server 11 SP3</li> </ul> <p>As of version 9.34.p2, Service Manager supports SUSE Linux Enterprise Server 11 SP3.</p>
x86-64	<ul style="list-style-type: none"> <li>• Windows Server 2012 R2, 2012</li> <li>• Windows Server 2008 R2, 2008</li> <li>• Red Hat Enterprise Linux 6.0–6.5*, 5.4*</li> <li>• Oracle Enterprise Linux 6.0–6.5*, 5 (Update 4)*</li> <li>• Novell SUSE Linux Enterprise Server 11*, 11 SP3</li> </ul> <p>As of version 9.34.p2, Service Manager supports SUSE Linux Enterprise Server 11 SP3.</p>

Oracle SPARC	<ul style="list-style-type: none"> <li>• Oracle Solaris Server 11.1, 10, 9</li> </ul> <p><b>Note:</b> As of Oracle Solaris 11, non-UTF-8 locales are packaged separately. For Service Manager to support Oracle Solaris 11.1, you must enable charset ISO88591 on Oracle Solaris 11.1 by executing the following command:</p> <pre>pkg install pkg:/system/locale/extra</pre> <p>For more information, see the following link: <a href="http://docs.oracle.com/cd/E23824_01/html/E24456/glmwl.html">http://docs.oracle.com/cd/E23824_01/html/E24456/glmwl.html</a></p>
IBM pSeries	<ul style="list-style-type: none"> <li>• AIX 7.1, 6.1</li> </ul>

\* The Linux Kernel version must be 2.6.16 or greater.

## Databases

The Service Manager 9.34 server supports the following back-end databases:

RDBMS		Notes
Oracle	<ul style="list-style-type: none"> <li>• Oracle 11.2</li> <li>• Oracle 12.1</li> </ul>	<p>HP strongly recommends the use of the Oracle 11.2 (Oracle 11.2.0.3 or later) and avoiding the use of Oracle 11.1. Our experience has shown numerous problems with the Oracle 11.1 release including both stability and performance that are improved in the Oracle 11.2 release and cannot be mitigated by changes in the Service Manager code base.</p> <p>As of version 9.34.p2, Service Manager supports Oracle 12.1. Oracle Database 12.1 is supported on the following platforms: Windows, Linux, Solaris, and AIX. It is not supported on HP-UX.</p> <p>In addition, using Oracle client 12.1.0.1.0 and 12.1.0.2.0 is not recommended because of the memory leak issue in these versions (See Oracle <a href="#">Doc ID 2106522.1</a>).</p> <p>After you upgrade the Service Manager server to use Oracle Database 12.1 on Linux, Solaris, and AIX, you must modify the <b>sqllibrary</b> parameter in sm.ini to <b>sqllibrary:sqoracle.oci12.so</b>.</p>
DB2 9	<ul style="list-style-type: none"> <li>• DB2 9.5</li> <li>• DB2 9.7</li> </ul>	
DB2 10	<ul style="list-style-type: none"> <li>• DB2 10.1</li> </ul>	DB2 10.1 is not supported on HP-UX.



RDBMS		Notes
SQLServer	<ul style="list-style-type: none"> <li data-bbox="402 289 558 352">• SQLServer 2005</li> <li data-bbox="402 386 558 449">• SQLServer 2008</li> <li data-bbox="402 483 558 546">• SQLServer 2012</li> </ul>	SQLServer connectivity is only supported in configurations where the Service Manager server is running on a Windows operating system.

## 64-bit platform support

The Service Manager server is a 32-bit application and requires the 32-bit versions of the database client libraries to connect to the database server. The database server itself can be 32-bit or 64-bit. Connectivity to Oracle and DB2 uses their native clients; connectivity to SQLServer is performed through ODBC and requires the 32-bit version of the ODBC Driver Manager. You may use the SQLServer 2005, SQLServer 2008 or SQLServer 2012 client library, but not the Windows default SQLServer client library when you configure the ODBC connection.

## Virtualization support

The Service Manager 9.34 server supports the following virtualization platforms:

Virtualization platform	Notes
VMWare vSphere 4 <ul style="list-style-type: none"> <li data-bbox="250 1262 488 1293">• VMWare ESXi 4.1</li> <li data-bbox="250 1327 467 1358">• VMWare ESX 4</li> </ul>	vMotion is not supported. Memory must be dedicated.
VMWare vSphere 5 <ul style="list-style-type: none"> <li data-bbox="250 1446 493 1478">• VMWare ESXi 5.5</li> <li data-bbox="250 1512 488 1543">• VMWare ESXi 5.1</li> <li data-bbox="250 1577 488 1608">• VMWare ESXi 5.0</li> </ul>	vMotion is supported.
<ul style="list-style-type: none"> <li data-bbox="250 1633 553 1696">• Microsoft Hyper-V 2012 R2</li> <li data-bbox="250 1730 553 1761">• Microsoft Hyper-V 2012</li> <li data-bbox="250 1795 553 1858">• Microsoft Hyper-V 2008 R2</li> </ul>	

- VMHA is transparent to Service Manager. A client reconnection is required after a fail-over.
- VMWare's Snapshot features should be used with caution. In addition, there are some known issues and recommendations in vMotion that need user attention. For details, see the *Service Manager 9.31 vMotion Test Report* white paper, which is available from the following HP Software Support website:

[www.hp.com/go/hpsupport](http://www.hp.com/go/hpsupport)

## Case sensitivity

Service Manager supports the default case-sensitivity for all the RDBMS platforms listed, including the case insensitive collations in Microsoft SQL Server. In addition to these defaults, Service Manager 9.34 supports case-insensitive mode in Oracle 11.2.0.3 and in later versions.

## Oracle Real Application Cluster and Transparent Application Failover

Oracle Transparent Application Failover (TAF) is a feature that allows database clients to reconnect to surviving nodes in an Oracle Real Application Cluster (RAC) in the event of a failure of an instance.

All supported Service Manager server versions currently perform similar session recovery operations within our own application. When detecting a connection failure, Service Manager will attempt to reestablish the connection, setup necessary session properties, and then attempt to repeat the failed transactions. Service Manager will continue to retry the connection for 1 minute.

If the database is within an Oracle RAC configuration this should allow time for failover and reconnection to another available instance. HP fully supports Oracle RAC configurations and will honor this re-connect strategy. For more information, see "[Transparent technology and virtualization support](#)" on page 19.

Since similar functionality is already available in Service Manager, the product has not been modified to run in an Oracle TAF configuration.

**Caution:** Using Service Manager in combination with Oracle TAF may actually cause connectivity issues in the database. Do not run Service Manager in an Oracle TAF configuration.

## Service Manager clients

This section provides support matrix information of the Service Manager 9.34 Windows and web clients.

**Note:** Viewing Service Manager forms with either the Windows or the web client requires a minimum screen resolution of 1024x768.

## Windows client

The Service Manager 9.34 Windows client supports the following operating systems:

- Windows 8.1 (32-bit and 64-bit)
- Windows 7 (32-bit and 64-bit)
- Windows Vista (32-bit and 64-bit)

**Note:** For the HTML Editor to work correctly in the Windows client, the client machine must have a version of Internet Explorer installed that is supported for the web client.

**Note:** Virtualization options, such as Citrix, are considered transparent technologies. See ["Transparent technology and virtualization support" on page 19](#) for more information.

## Web tier: web client

The Service Manager 9.34 web tier supports the following browsers:

- Internet Explorer (IE) 11, 9

**Note:** IE 8 and IE 10 are no longer supported because starting from January 12, 2016, Microsoft ends technical support and security updates for IE 8 and IE 10 running on Windows desktop operating systems.

- Firefox 24 or a later version (Extended Support Releases are recommended)
- Google Chrome 31 or a later version

**Note:**

- You must enable the Java plug-in (32-bit JRE 7) in web browsers to use Service Manager telephony, workflows (non-Process Designer-based), and CI visualization. The latest JRE 7 update is recommended.
- Firefox 26 to 51 disables the Java plug-in by default. If Firefox prompts you to allow the Java

plug-in to launch when you use telephony, workflows (non-Process Designer-based), and CI visualization, click **Allow** to continue. For more information, see <http://www.mozilla.org/en-US/firefox/26.0/releasenotes/>.

FireFox 52 or later permanently disables NPAPI. Customer who need the applet sensitive features (including telephony (CTI), workflows, and CI visualization) in SM should consider Internet Explorer or stay on Firefox ESR 52 (32-bit) or earlier. Or, you can consider migrating to PD workflows (introduced as of SM 9.40) and using the new CI Visualization and telephony solution (introduced as of SM 9.50).

- Google Chrome 42, 43, and 44 disable NPAPI support by default. However, telephony, workflows (non-Process Designer-based), and CI visualization are implemented with Java applet technology that relies on the NPAPI support.

Starting from Chrome 45, NPAPI is permanently removed from Chrome (see <https://java.com/en/download/faq/chrome.xml>). Customers who need the applet sensitive features in SM (including telephony (CTI), workflows, and CI visualization) should consider Internet Explorer. Or, you can consider migrating to PD workflows (introduced as of SM 9.40) and using the new CI Visualization and telephony solution (introduced as of SM 9.50).

For more information about NPAPI support, see the following knowledge article: <https://softwaresupport.hp.com/group/softwaresupport/search-result/-/facetsearch/document/KM01585680>.

## Web tier: application servers

The Service Manager 9.34 web tier supports the following application servers:

Application server	Versions
Apache Tomcat	<ul style="list-style-type: none"><li>• 7.0 (7.0.54 or a later version)</li><li>• 6.0 (6.0.41 or a later version)</li></ul>
IBM WebSphere Application Server (WAS)	<ul style="list-style-type: none"><li>• 8.5 (8.5.5 or a later version), 8.0 (8.0.0.7 or a later version)</li><li>• 7</li></ul>
Oracle WebLogic	<ul style="list-style-type: none"><li>• 11g</li><li>• 10.3</li></ul>
JBoss EAP	<ul style="list-style-type: none"><li>• 5.1</li></ul>

**Note:** If JRE7 is used, it must be JRE 7 update 55 or a later version.

## Web tier: web servers

The Service Manager 9.34 web tier supports the following web servers:

- IIS 7.5, 7.0
- Apache HTTP Server 2.2

**Note:** The web server must be compatible with the web tier application server.

## Mobility client

### Application server

Application server	Versions
Apache Tomcat	7.0 (7.0.54 or a later version)  <b>Note:</b> The application server should run on Oracle JRE 7.
IBM WebSphere Application Server (WAS)	8.5 (8.5.5 or a later version)  <b>Note:</b> The application server should run on IBM Java SE Runtime Environment (JRE) 7.0.

## Handset

The Service Manager Mobility client supports handsets that are running the following operating system versions and their built-in browsers.

**Note:**

- Other third-party web browsers have not been certified and are therefore not supported.
- To access and use the Service Manager Mobility client, your phone must have a touch screen.
- The performance of the Service Manager Mobility client is highly dependent on the performance of the handsets that you use. For example, you might experience low performance on a BlackBerry 6.x or 7.0 operating system.

Mobile operating system	Mobile browser
iOS <ul style="list-style-type: none"><li>• 8.x</li><li>• 7.0</li><li>• 6.x</li><li>• 5.x</li></ul>	Safari
Android <ul style="list-style-type: none"><li>• 4.x</li></ul>	<ul style="list-style-type: none"><li>• Chrome</li><li>• Android browser</li></ul>
BlackBerry <ul style="list-style-type: none"><li>• 10.0</li><li>• 7.0</li><li>• 6.x</li></ul>	BlackBerry browser

## Service Request Catalog

Service Manager 9.34 supports Service Request Catalog (SRC) version 9.34. To work with SRC 9.34, both the Service Manager server and applications must upgrade to version 9.34.

HP recommends that you install SRC on a different machine than the Service Manager server for performance reasons.

The HP Service Request Catalog 9.34 supports the following configurations.

### Application server

- Tomcat 6.0 (6.0.41 or a later version)
- Tomcat 7.0 (7.0.54 or a later version)

**Note:** The application server should run on Oracle JRE 7.

## Browser

- Internet Explorer (IE) 11, 9

**Note:** IE 8 and IE 10 are no longer supported because starting from January 12, 2016, Microsoft ends technical support and security updates for IE 8 and IE 10 running on Windows desktop operating systems.

- Firefox 24 or a later version (Extended Support Releases are recommended)
- Chrome 31 or a later version

The user's browser requires Adobe Flash Player 10.3 or a later version.

## Web server

- IIS 7.5, 7.0
- Apache HTTP Server 2.2

## Knowledge Management Search Engine

The Service Manager 9.34 Knowledge Management Search Engine runs on the same platforms as the Service Manager server, but requires JDK 6 (Update 21 or a later version) or JDK 7 (Latest JDK 7 version is recommended).

## Hardware load balancers

As of Service Manager 9.32, full support is provided for F5 hardware load balancers.

For more information such as the supported scenarios, see the Service Manager 9.32 Release Notes and the "Hardware load balancers" section in the online help.

## Compatibility

This section provides compatibility information about Service Manager components.

### Platform/application compatibility

The Service Manager client/server version should be no earlier than the applications version. For example, if you are using the 9.34 applications, you must use a client/server version of 9.34 or greater; if you are using the 9.34 client/server, you can use the 7.11, 9.21, 9.30, 9.31, 9.32, 9.33, or 9.34 applications.

For SRC, it requires the same applications version as the SRC version. Refer to the following table for details.

SRC Version	SM Applications Version
9.34	9.34
9.33	9.33
9.32	9.32
1.4	9.31
1.3	9.30

**Note:** As of SRC version 9.32, SRC can work with higher RTE versions. For example, SRC 9.32 is compatible with RTE 9.32 or a later version such as RTE 9.34.

### Client/server compatibility

HP strongly recommends Service Manager client and server combinations of the same patch level.

However, at various times, such as during an upgrade, it is possible that an organization temporarily operates under differing versions of Service Manager client and server in same minor level. For example, an organization may temporarily use a Service Manager 9.30 client together with a Service Manager 9.34 server. HP will support customers during these transition times. However, the various combinations of client and server at different minor-minor levels have only received minimal functional testing. Therefore, complete functionality cannot be guaranteed in a mismatched environment.

The following list describes the server and client combinations that have received minimal functional testing in the 9.34 release:



- 9.34 Windows/web client + 9.30/9.31/9.32/9.33 RTE
- 9.30/9.31/9.32/9.33 Windows/web client + 9.34 RTE

For the Mobility client, only the Service Manager 9.32 server and later versions are supported. Earlier versions may cause unexpected problems.

## Known client/server incompatibilities

The following known incompatibility issues occur when 9.2x clients or RTEs are used together with 9.3x clients or RTEs:

- When using a 9.2x Web client together with a 9.3x RTE, users cannot log in to the web client by TSO/LWSSO. Instead, they will be brought to an authentication failure page.
- When using a 9.3x Web client together with a 9.2x RTE, users can log in to the web client by TSO/LWSSO, but the language that is specified in the URL or in the browser preferences is ignored. Instead, the language set in the operator record is used.

## Application/content pack compatibility

The Service Manager 9.34 applications are compatible with most of the previous released content packs, however you must follow specific instructions to install them to avoid data conflicts.

For detailed information, see the compatibility matrix for Service Manager Applications Content, which is available at the following HP website:

<https://softwaresupport.hp.com/group/softwaresupport/search-result/-/facetsearch/document/KM00503656>

## Search engine compatibility

The Service Manager 9.34 client and server support both the K2 Search Engine and the KM Solr Search Engine. However, once you have upgraded your applications to Service Manager 9.30 or a later version, you can only use the KM Solr Search Engine and not the K2 Search Engine.

## Compatibility with other HP software products

Service Manager supports many HP portfolio integrations, as well as those of many third parties. These integrations are identified in the integration catalog. To view the catalog, visit the following HP website and select "Service Manager":

[http://support.openview.hp.com/sc/integration\\_catalog.jsp](http://support.openview.hp.com/sc/integration_catalog.jsp)

## Languages, localization, and internationalization

The Service Manager 9.34 server supports all Service Manager Application languages, localization, and internationalization versions.

Service Manager supports Unicode (UTF-8) on the server and client. Unicode is a worldwide standard compatible with ISO 10646 ([www.iso.org](http://www.iso.org)). UTF-8 is part of the Unicode standard, which enables you to encode text in practically any script and language. It also supports a comprehensive set of mathematical and technical symbols that simplify scientific information exchange. Service Manager 9.34 supports UTF-8 as an encoding method for new or existing ASCII and multi-byte characters. For more information about the languages and character sets that are supported by UTF-8, visit the following website: [www.unicode.org](http://www.unicode.org)

Service Manager approaches languages, localization, and internationalization as follows:

- Language packs provide a translated UI, Online Help (OLH), and installation documentation unless otherwise noted.
- Service Manager Language packs are available for Arabic, Brazilian Portuguese, Czech, Dutch, French, German, Hebrew, Hungarian, Italian, Japanese, Korean, Polish, Russian, Simplified Chinese, and Spanish.

Service Request Catalog supports all the languages that are listed above.

The Mobility client supports all the languages that are listed above, except for two right-to-left display languages (Arabic and Hebrew).

- Service Manager accepts and displays data for any language that is supported by UTF-8, regardless of the language pack installed. Furthermore, no translation is required for this feature to apply. For example, a French Service Manager system can accept and display German. A Japanese system can accept and display Spanish. Note that appropriate SQL database data types or code pages are required.

## Transparent technology and virtualization support

In recent years, a number of “transparent” hardware and software technologies and virtualization solutions (such as Citrix, Microsoft Cluster Software, and VMware) have become increasingly prevalent. These solutions operate in the technology layers adjacent to the operating systems or, in some cases, as extensions of the operating systems. Similarly, database solutions offer transparent components as supported elements.

HP supports Service Manager running on operating systems and databases on particular platforms as described in the matrix above, not specific hardware and software configurations. HP will support Service Manager customers who run HP software products on supported operating systems and databases, irrespective of whether they are running transparent or virtualization solutions in their environment. HP does not support these transparent or virtualization technologies directly. Since the providers of these technologies support a set of certified operating systems and hardware, the customer and the providers of these technologies will be responsible for any interactions or issues that arise at the hardware or operating system layer as a result of their use.

HP will not require customers to re-create and troubleshoot every issue in a non-transparent environment; however, HP does reserve the right to request that its customers diagnose certain issues in a native certified operating system environment without the transparent technology. HP will only make this request when there is reason to believe that the environment is a contributing factor to the reported issue.

While Service Manager is expected to function properly with these transparent technologies in place, there may be performance implications, which can invalidate HP’s typical sizing and recommendations. Analysis must be performed within the context of the specific application to be hosted in a virtual environment to minimize potential resource overload, which can have significant impact on performance and scalability, particularly under peak load.

## Underlying technology version policy

Third-party components, such as databases and operating systems, are supported at the minor level unless a different minimum level is specified. For example, Oracle 11.2 is supported at the minimum release of Oracle 11.2.0. Future releases of the same minor release (second numeral) are expected to be supported, unless a conflict specific to that release arises. For example, you can expect Oracle 11 to be supported on 11.2.0.3, 11.2.0.4, etc. Refer to the support matrix provided by the vendor for restrictions and other considerations.

It is not our policy to recertify a released product against a new version of a vendor product, unless the current version of our product will be supported well past the end of obtainable or extended support of the associated vendor product, and there is not a viable extension to the support of that product. We also, as a rule, do not recertify on minor releases (for example, Oracle 11.0, then 11.2, then 11.2g, and so on); we only list the latest version of the vendor product that we actually certified at the time of our product release.

## Obsolescence plans

To learn the obsolescence plans for previously released versions of Service Manager, go to:

<https://softwaresupport.hp.com/web/softwaresupport/obsolescence-migrations>.

## Change log

The table below lists the changes to this document since it was first released for version 9.34.

Document Date (product version)	Change
July 2014	<ul style="list-style-type: none"><li>• Initial release.</li></ul>
May 2015	<ul style="list-style-type: none"><li>• Added a note about the NPAPI support by Google Chrome 42 and later in the "Web tier: web client" section.</li></ul>
June 2015	<ul style="list-style-type: none"><li>• Updated the note about the JRE version for web browsers in the "Web tier: web client" section.</li></ul>
September 2015	<ul style="list-style-type: none"><li>• Updated the note about Google Chrome support for web browsers in the "Web tier: web client" section.</li></ul>
January 2016	<ul style="list-style-type: none"><li>• Dropped the IE 8 and IE 10 support for web tier and Service Request Catalog.</li></ul>
May 2016	<ul style="list-style-type: none"><li>• Dropped Novell SUSE Linux Enterprise Server 10 SP1 from the platform support.</li><li>• Updated server JRE requirements.</li><li>• Dropped Windows 8 for Windows client.</li></ul>
January 2017	<ul style="list-style-type: none"><li>• Dropped the <b>Service Request Catalog for tablets</b> configuration</li></ul>
May 2017	<ul style="list-style-type: none"><li>• Updated the note about Google Chrome and FireFox support for web browsers in the "Web tier: web client" section.</li></ul>
August 2017	<ul style="list-style-type: none"><li>• Specified the Oracle database version at minor level (12.1) in the "Databases" section.</li></ul>

# Send Documentation Feedback

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## **Feedback on Support Matrix (Service Manager 9.34)**

Just add your feedback to the email and click send.

If no email client is available, copy the information above to a new message in a web mail client, and send your feedback to [ovdoc-ITSM@hp.com](mailto:ovdoc-ITSM@hp.com).

We appreciate your feedback!

