



# HP IT Executive Scorecard

Software Version: 9.50

Windows® operating

## Support Matrix

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Software Release Date: June 2014

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# Requirements

This section provides information about the supported hardware and software that you must have to successfully install and run this version of Executive Scorecard.

## Hardware

**Note:** The following requirements apply to both VMWare environments or physical machines.

This version of Executive Scorecard is supported on the following hardware:

### Windows

- **Required CPU size and architecture, RAM, and disk space:** The tables in Application Servers describe the requirements for the various Executive Scorecard components in the different configurations. For details, see "[Performance and Sizing](#)" on page 25.
- **Required Screen resolution, minimum color display:** 1280 x 1024 and above
- **Required Network identification:** IPv4.

## Operating System

The following describe the operating system requirements for the Executive Scorecard components:

Server	Installed Applications	Operating System
Executive Scorecard server	IT Executive Scorecard 9.50	Microsoft Windows Server 2008 R2 Enterprise Edition Windows Server 2012 R2 Standard
RDBMS server	Microsoft SQL Server 2008 R2 Enterprise Edition with SP1 Microsoft SQL Server 2008 Enterprise Edition with SP3 Microsoft SQL Server 2012 Enterprise Edition	RDBMS compatible
Data Warehouse server	Microsoft .NET Framework 3.5 Microsoft® SQL Server® 2008 R2 Native Client x64 package and the Microsoft® SQL Server® 2008 R2 Command Line Utilities x64 package	Windows Server 2008 R2 Enterprise Edition Windows Server 2012 R2 Standard

Server	Installed Applications	Operating System
	<p>Microsoft Excel 2003 or 2007</p> <p><b>Note:</b> MS Office must be installed in 64 bit format</p> <p>Install "Access Database Engine 2010 64bit" on the DWH server. It is mandatory. This is performed as the last step of the installation. For details, see "Install Access Database Engine 2010 64bit" on the DWH server" in the <i>IT Executive Scorecard Installation Guide</i>.</p>	
<p>SAP® BusinessObjects server</p>	<p>SAP® BusinessObjects BI platform 4.0 SP6 (14.0.6.1036)</p> <p>SAP BusinessObjects BI Platform 4.1 SP3(14.1.3.1257) (when HP IT Executive Scorecard Patch 0004 is installed)</p>	<p>Microsoft Windows Server 2008 R2 Enterprise Edition</p> <p>Windows Server 2012 R2 Standard</p> <p>Linux is not supported</p>
<p>SAP® BusinessObjects Data Services</p>	<ul style="list-style-type: none"> <li>• SAP BusinessObjects Data Services 4.1 SP3 (14.1.3.515)</li> <li>• SAP BusinessObjects Data Services 4.2 SP4 (14.2.4.668) (when HP IT Executive Scorecard Patch 0004 is installed)</li> </ul>	

**Note:** All component systems must be joined to the same domain.



# Databases

Make sure that you consult the RDBMS vendor documentation for installation requirements and platform/operating system compatibility for server and client installations. The following table describes the RDBMS drivers required on different servers for Executive Scorecard to run successfully.

<b>Product</b>	<b>Server</b>	<b>Supported Drivers (client)</b>
Microsoft SQL Server 2008	Application	Microsoft SQL Server JDBC driver 2.0.1803
Microsoft SQL Server 2012 Enterprise Edition	Application	

# Application Servers

The hardware requirements for the various Executive Scorecard components depend on the number of data sources you want to use and on the number of users who will use the application. They also depend on your server configuration. For details, see ["Performance and Sizing" on page 25](#).

# Web Servers

This version of Executive Scorecard uses an Apache web server.

The following supported web server is required to run this version of Executive Scorecard: Tomcat 6.

# Web Browsers and Plug-ins

Make sure that you consult the software vendor documentation for installation requirements and platform/operating system compatibility for server and client installations. The following table describes the software required for users to access the Executive Scorecard application successfully.

Product	Comments
<b>Operating system</b>	64 bit OS
<b>Adobe Flash Player 11.7.x and higher</b>	Enables users to view dashboards. Free download available from the Adobe web site: <a href="http://www.adobe.com">www.adobe.com</a>
<b>Adobe® Reader® version 9 and above</b>	Enables users to read the documentation in PDF format.
<b>SAP® Dashboard</b>	SAP Dashboard 4.1sp2bit32 Enables users to modify reports. The supported report format is .xlf.
<b>Browser</b>	<div style="background-color: #f0f0f0; padding: 5px; margin-bottom: 10px;"> <p><b>Note:</b> Internet Explorer 9 and Chrome are the recommended browsers and provide optimum performance for Executive Scorecard.</p> </div> <ul style="list-style-type: none"> <li>• <b>Internet Explorer:</b> <ul style="list-style-type: none"> <li>• IE11 (with Patch 003). Both compatibility and non-compatibility modes are supported.</li> <li>• IE9 and IE10. The Compatibility View mode is not supported in IE9. To turn off the Compatibility View mode, do one of the following:               <ol style="list-style-type: none"> <li>i. Click the blue icon in the toolbar (the page reloads with the compatibility mode off).</li> <li>ii. Click <b>Tools &gt; Compatibility View Settings</b>, select the listed webpage address that you want to turn off Compatibility View for, and click/tap on the <b>Remove</b>, then click <b>Close</b>.</li> </ol> </li> </ul> </li> </ul> <p><b>BOE 4.0 sp6.</b> If you work with SAP BusinessObjects Enterprise (BOE) 4.0 sp6 and either IE9, IE10, or IE11, you must add the name of your BOE server to the trusted website list, and make sure Require server verification (https:) for all sites in this zone is unchecked.</p> <p><b>SAP Business Intelligence Platform (BIP).</b> If you work with SAP Business Intelligence Platform (BIP) and either IE9, IE10, or IE11, you must add the name of your BIP server to the trusted website list, and make sure <b>Require server verification (https:) for all sites in this zone</b> is unchecked.</p> <ul style="list-style-type: none"> <li>• <b>Chrome:</b></li> </ul>

Product	Comments
	<ul style="list-style-type: none"> <li>• In some versions of the Chrome web browser, the Online Help displays correctly when it is viewed from a web server (via http) but does not display correctly when viewed locally (saved on your computer). This is caused by a security policy in Chrome. If you want to check your WebHelp output locally in Chrome, start Chrome with this policy disabled: (1) Close all instances of Chrome. (2) Click the Windows <b>Start</b> Icon &gt; Run. (3) In the Open: field, enter: <b>chrome --allow-file-access-from-files --disable-web-security</b> (4) Click <b>OK</b>.</li> <li>• Disable the built-in version of Shockwave Flash:             <ul style="list-style-type: none"> <li>i. In Chrome, enter <b>chrome://plugins</b> and click <b>disable</b> for the Chrome-provided Shockwave Flash ( <b>%USERPROFILE%\AppData\Local\Google\Chrome\Application\&lt;shock wave_version&gt;\PepperFlash\pepflashplayer.dll</b>).</li> <li>ii. Install and enable the other version of Shockwave Flash (<b>C:\Windows\SysWOW64\Macromed\Flash\&lt;shockwave_version&gt;.dll</b>).</li> </ul> </li> <li>• <b>Chrome 30:</b> If you work with SAP BusinessObjects Enterprise (BOE) 4.0 sp6, you must use Chrome 30. If you work with SAP Business Intelligence Platform (BIP) for some of your reports, you must use Chrome 30, IE 9, IE10, or use IE11. To download to Chrome 30:             <ul style="list-style-type: none"> <li>i. Uninstall the latest Chrome version.</li> <li>ii. Download and install Chrome 30. Disable Chrome auto upgrade feature.</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>• <b>Firefox:</b> Firefox 21 and later. HP makes every effort to test and support the most recent version of Firefox. The last version of Firefox that was tested is 24.0.</li> </ul> <div style="background-color: #f0f0f0; padding: 10px; margin: 10px 0;"> <p><b>Note:</b> By default, Firefox adjusts the page zoom level according to your Windows settings, to better support high DPI displays. For example, if Windows is set to 125% font size (120dpi), the content area will be zoomed by 25% compared with Firefox 21 and earlier.</p> </div> <p>To return to the previous display style:</p> <ul style="list-style-type: none"> <li>a. Install the <a href="https://addons.mozilla.org/enus/firefox/addon/theme-font-size-changer/">Theme Font &amp; Size Changer</a> (<a href="https://addons.mozilla.org/enus/firefox/addon/theme-font-size-changer/">https://addons.mozilla.org/enus/firefox/addon/theme-font-size-changer/</a>) extension. Turning off the scaling affects the chrome area (menus, toolbars, and tabs) as well as the content. After restarting Firefox, click the new "A" icon at the right end of the navigation toolbar and change the font size from Normal to 15.</li> <li>b. Change your global scaling in the about:config preferences editor.             <ul style="list-style-type: none"> <li>i. In a new tab, type or paste <b>about:config</b> in the address bar and press <b>Enter</b>. Click the button promising to be careful.</li> <li>ii. In the filter box, type or paste <b>pix</b> and pause while the list is filtered.</li> </ul> </li> </ul>

Product	Comments
	<p>iii. Double-click <b>layout.css.devPixelsPerPx</b> and change its value to <b>1.0</b> for Firefox 21-sized fonts in the content area.</p> <p>This should take effect immediately without another restart.</p>
<p><b>JRE (Java Runtime Environment)</b></p>	<p>Version 1.6x and higher (not mandatory)</p> <p>Java 7</p>
<p><b>RAM</b></p>	<p>2GB minimum</p> <p>4GB recommended</p>
<p><b>Browser Zoom Level</b></p>	<p>It is recommended that you set your browser Zoom Level to 100%.</p> <p>A Zoom level higher than 100% might result in some of the components not displaying properly in the Dashboard.</p>
<p><b>Browser Settings</b></p>	<p>It is recommended that you reset the browser settings to the default settings and add XS site to trust site lists.</p>

# Standalone Tool

No standalone tool is needed or available in this version.

# Compatibility

This section provides information about software and configurations that are not required, but which are compatible with this version of Executive Scorecard.

## Mobile Devices

### Executive Scorecard for Mobiles

Executive Scorecard version	XS for Mobiles version	HP Anywhere version
9.50 + XS 9.50 Patch 02 Windows	2.00 Platform: <ul style="list-style-type: none"> <li>• iOS 8.0, 7.0 to 7.1.2                             <ul style="list-style-type: none"> <li>• Apple iPad mini</li> <li>• Apple iPad 3</li> <li>• Apple iPad 4</li> </ul> </li> <li>• Android - up to version 4.2:                             <ul style="list-style-type: none"> <li>• HP Slate 7, 10</li> <li>• Samsung Galaxy Tab 7</li> <li>• Samsung Galaxy Tab 10.1</li> </ul> </li> </ul>	HP Anywhere 11.12 HP Anywhere 10.11 with patch 12-150-71.



# Languages

The user interface of Executive Scorecard has been extended to support multiple languages. You can switch the language displayed in the application user interface by switching the Internet Browser language settings.

This version of Executive Scorecard:

Languages (in alphabetical order):	Runs on systems with the language:	Is localized in the language:
Brazilian Portuguese	√	√
Dutch	√	√
English (UK and US)	√	√
French	√	√
German	√	√
Italian	√	√
Japanese	√	√
Korean	√	√
Russian	√	√
Simplified Chinese	√	√
Turkish	<p>Only UI and data insertion of Turkish are supported. Operating systems and locale in Turkish are not supported. In order to have Turkish-like locale, you can customize the OS locale to match the Turkish settings.</p> <p>Contact <a href="https://softwaresupport.hp.com/group/softwaresupport/home">HP Software Support Online Web site</a> (<a href="https://softwaresupport.hp.com/group/softwaresupport/home">https://softwaresupport.hp.com/group/softwaresupport/home</a>) for additional information.</p>	√

**Note:** Using the English character set is always supported in addition to the character set in the local Operating System. For example, if you install XS in a Japanese environment, you can use the English character set as well as the Japanese character set.

Product documentation in Japanese and Russian will follow after the release. The following documents will be available in Japanese and Russian:

<b>Document</b>	<b>Japanese</b>	<b>Russian</b>
<i>IT Executive Scorecard Administrator Guide - PDF</i>	yes	yes
<i>IT Executive Scorecard Business Analyst Guide - PDF</i>	yes	yes
<i>IT Executive Scorecard Financial Analyst Guide - PDF</i>	yes	yes
<i>Getting Started with IT Executive Scorecard - PDF</i>	yes	no
<i>IT Executive Scorecard Installation Guide - PDF</i>	yes	no
<i>IT Executive Scorecard Release Notes - PDF</i>	yes	no
<i>IT Executive Scorecard Reports Reference Guide - PDF</i>	no	yes
Online Help	yes	no

## Internationalization Variances

This version of Executive Scorecard runs on all locales described in this document. There are no known variances.

# Virtualization Products

This section describes the virtualization products supported by Executive Scorecard.

## Transparent Technology and Virtualization Support

HP supports Executive Scorecard running on operating systems and databases on particular platforms, not specific hardware and software configurations. HP supports Executive Scorecard 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 Executive Scorecard 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.

## High-Availability Products

This version of Executive Scorecard does not support any high-availability products.

# Integrations and Coexistence

Information about HP software that integrates with this version of Executive Scorecard can be found at the HP Support web site. See <http://support.openview.hp.com/sc/solutions/index.jsp#tab=tab3>.

You can find the latest Support Matrix for this product that lists all software and hardware requirements at this location: [HP Support matrices](#) or at the [HP Software Support Online Web site](#) (<https://softwaresupport.hp.com/group/softwaresupport/home>).

**Note:** Most of the support areas require that you register as an HP Passport user and sign in. Many also require an active support contract. To find more information about support access levels, go to [Access levels](#).

To register for an HP Passport ID, go to [HP Passport Registration](#).

Note that communication with data sources is done via IPv4 TCP/IP.

## Supported Integrations with HP Products

HP Executive Scorecard is compatible with the following software products.

Product	Versions	Supported Databases
HP Application Lifecycle Management (ALM)	12.0, 11.5, 11 SP2 (patch 12 and later)	All supported database servers
HP Asset Manager (AM)	9.40, 9.30, 5.2x, 5.10	Only sources based on Oracle & SQL-Server are supported.
HP Business Service Management (BSM)	9.20, 9.10, 9.01 including Patch #12 (available in the installation DVD in the <b>BSM_901_Patch_12</b> directory)	All supported database servers
HP Data Protector (DP)	9.03, 9.0, 8.10, 8.0, 7.00, 6.22, 6.2, 6.11, 6.1	All supported database servers
HP Cloud Service Automation (CSA)	CSA 4.50 with CSA 4.50.0001, 4.2, 4.1, 4.0, 3.2 and 3.1 CSA 4.50.0001 supported from XS 9.50 Patch 04 CSA 4.2 or 4.1 supported from XS 9.50 Patch 02	All supported database servers
HP Insight Control (IC)	7.2.1, 7.1.0	All supported database

Product	Versions	Supported Databases
		servers
HP Network Automation (NA)	10.0, 9.2, 9.10	All supported database servers
HP Network Node Manager (NNM)	9.20, 9.10 <b>Note:</b> iSPI Performance for Metrics must be installed.	All supported database servers
HP Operation Orchestration (OO)	9.0x	All supported database servers
HP Project and Portfolio Management (PPM)	<ul style="list-style-type: none"> <li>9.30 (with XS 9.50 Patch 04)</li> <li>9.20, 9.10, 8.00</li> </ul>	All supported database servers
HP Server Automation (SA)	10.2, 10.1, 10.0x/Server Automation Virtual Appliance (SAVA) 10.0, 9.1x, 9.0x <b>Note:</b> <ul style="list-style-type: none"> <li>Before you activate the SA 10.1 data source in XS 9.50, apply the XS 9.50 Patch 02 Windows <a href="https://softwaresupport.hp.com/group/softwaresupport/search-result?keyword=KM01284494">KM01284494</a> (<a href="https://softwaresupport.hp.com/group/softwaresupport/search-result?keyword=KM01284494">https://softwaresupport.hp.com/group/softwaresupport/search-result?keyword=KM01284494</a>).</li> <li>Before you activate the SA 10.2 data source in XS 9.50, apply the XS 9.50 Patch 03 Revision 1 Windows.</li> </ul>	Server Automation Virtual Appliance All supported database servers
HP Storage Essentials (SE)	9.60, 9.5.1 with hotfix: <b>1868_hotfix.zip</b>	Only sources based on Oracle 11g are supported
HP Service Manager (SM)	9.41, 9.40, 9.30, 9.2x, 7.11 SM 9.41 supported from XS 9.50 Patch 04 SM 9.40 supported from XS 9.50 Patch 03 Revision 1 Windows	Supported databases are provided with each supported version
HP Universal Configuration Management Database (uCMDB)	<ul style="list-style-type: none"> <li>10.11, 10.20 (with CAC - available with XS 9.50 Patch 04)</li> <li>10.20, 10.1x, 10.0X</li> </ul> <b>Note:</b> 9.0x is not supported from XS 9.50 Patch 004.	All supported database servers

**Note:** The Data Source Management UI does not display all the currently supported data source

versions (the complete list is displayed above).

If you want to specify the latest supported version of your data source (according to the Support Matrix), use the highest supported version listed in the <Data Source version> field in the Data Source Wizard page for your specific data source.

## Supported Integrations with Non-HP Products

HP Executive Scorecard is compatible with the following software products:

Product	Versions	Supported Databases
Alternate Source	N/A	Microsoft Excel 2003 or 2007
Amazon Web Services (AWS)	Amazon Web Services <b>Note:</b> Working with this data source requires a working Internet connection from the Data Warehouse machine.	All supported database servers
Amazon Web Service CloudWatch (AWSCW)	Amazon Web Service CloudWatch <b>Note:</b> Working with this data source requires a working Internet connection from the Data Warehouse machine.	All supported database servers
vCenter Chargeback Manager	vCenter Chargeback Manager 2.5.0, connected to vCenter. <b>vCenter</b> The supported versions of vCenter are: <ul style="list-style-type: none"> <li>• vCenter Server 5.1</li> <li>• vCenter Server 5.0 Update 1b</li> <li>• vCenter Server 4.1 and all corresponding Update Releases</li> <li>• vCenter Server 4.0 and all corresponding Update Releases</li> </ul> <b>Important:</b> <ul style="list-style-type: none"> <li>• If you have a <b>vCenter Server 5.0</b>, <b>vCenter Server 5.0 Update 1</b>, or <b>vCenter Server 5.0 Update 1a</b> server, then you must first upgrade your server to <b>vCenter Server 5.0 Update 1b</b> and then configure it in vCenter Chargeback Manager.</li> <li>• vCenter Chargeback Manager only supports vCenter Server databases that are created in Microsoft SQL Server or Oracle Database. vCenter Chargeback Manager does not support vCenter Server databases created in DB2.</li> </ul>	All supported database servers

Product	Versions	Supported Databases
	<p><b>vCloud Director</b></p> <p>The supported versions of vCloud Director are:</p> <ul style="list-style-type: none"> <li>• VMWare vCloud Director 5.1</li> <li>• VMWare vCloud Director 1.5 and later</li> </ul> <p><b>Important:</b></p> <ul style="list-style-type: none"> <li>• vCloud Director can be integrated with vCenter Chargeback Manager.</li> <li>• BA extracts vCloud Director data only via vCenter Chargeback Manager.</li> </ul>	
Microsoft Hyper-V	<p>Supported Products Version:</p> <ul style="list-style-type: none"> <li>• Microsoft Hyper-V Server 2012</li> <li>• Microsoft System Center Operations Manager (SCOM) 2012 SP1</li> <li>• Microsoft System Center Virtual Machine Manager (SCVMM) 2012 SP1</li> </ul> <p><b>Important:</b></p> <ul style="list-style-type: none"> <li>• <b>You must install Microsoft Hyper-V 2012, System Center Virtual Machine Manager (SCVMM) 2012SP1 and Microsoft System Center Operations Manager (SCOM) 2012 SP1 to ensure quality integration between XS and HPV.</b></li> <li>• HPV (Hyper-V) supports multiple instances.</li> <li>• All fields are case-sensitive.</li> <li>• Executive Scorecard only extracts usage data from SCOM , and you must set the unit-price in the Pricing_Model.xls .</li> <li>• SCOM must be integrated with SCVMM. BA only extracts data from SCOM.</li> <li>• If you want to calculate the costs of <b>VM CPU</b>, import the Management Pack package into SCOM. For details, see <a href="#">Import a Management Package Into SCOM</a> in the <i>Content Reference Guide</i>. The other costs are provided without the need for a rule or a package.</li> </ul>	All supported database servers

**Note:** The Data Source Management UI does not display all the currently supported data source versions (the complete list is displayed above).

If you want to specify the latest supported version of your data source (according to the Support Matrix), use the highest supported version listed in the <Data Source version> field in the Data Source Wizard page for your specific data source.

## Coexistence

Executive Scorecard and the HP products that integrate with XS must be installed on separate servers.

## Server / Client Compatibility

No compatibility information for older versions of Executive Scorecard clients or servers is available.



# Performance and Sizing

Third-party components, such as databases and operating systems, are supported at the minor level, unless a different minimum level is specified. Future maintenance and patch releases (including fix packs or service packs) on the same minor release are expected to be supported, unless a conflict specific to that release arises.

You can install Executive Scorecard using one of the configurations explained below. Sizing information is available for each configuration.

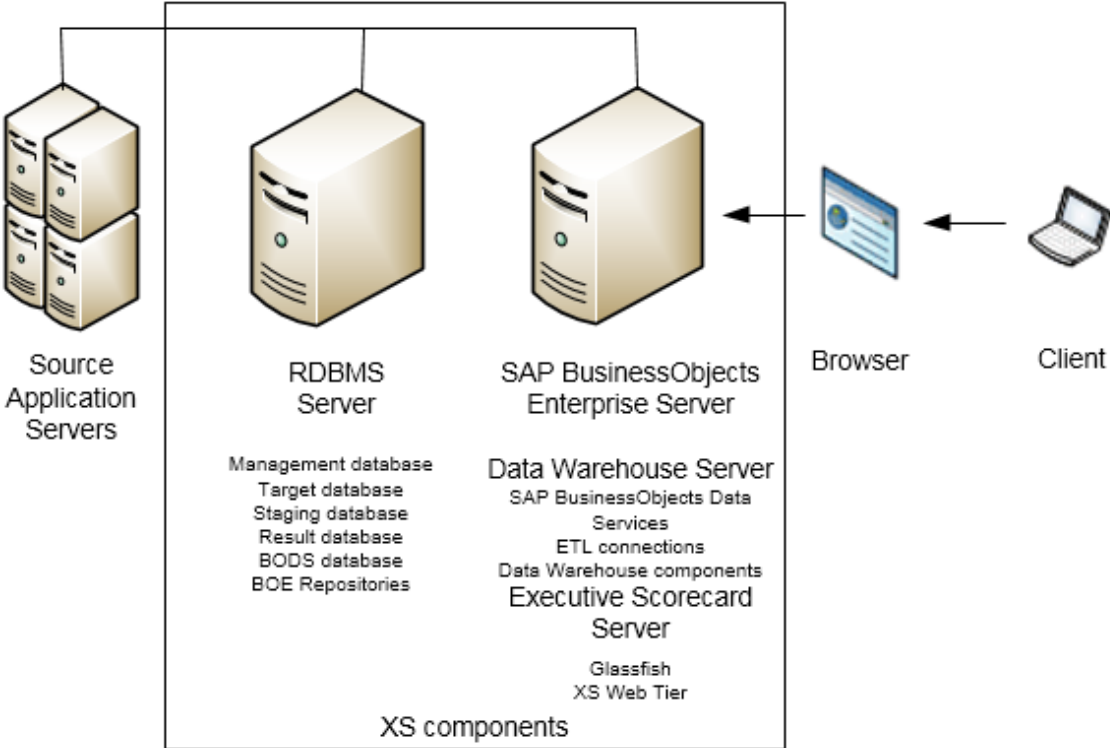
## Configurations

You can install Executive Scorecard using one of the configurations explained below. Sizing information is available for each configuration in "[Application Servers Sizing](#)" on page 27.

- **Two servers**

In such a configuration:

- RDBMS is installed on one server. You must have installed it before you begin the Executive Scorecard installation process.
- All the required Executive Scorecard components (SAP BusinessObjects Enterprise, Data Warehouse, and Executive Scorecard) are all installed on one server.



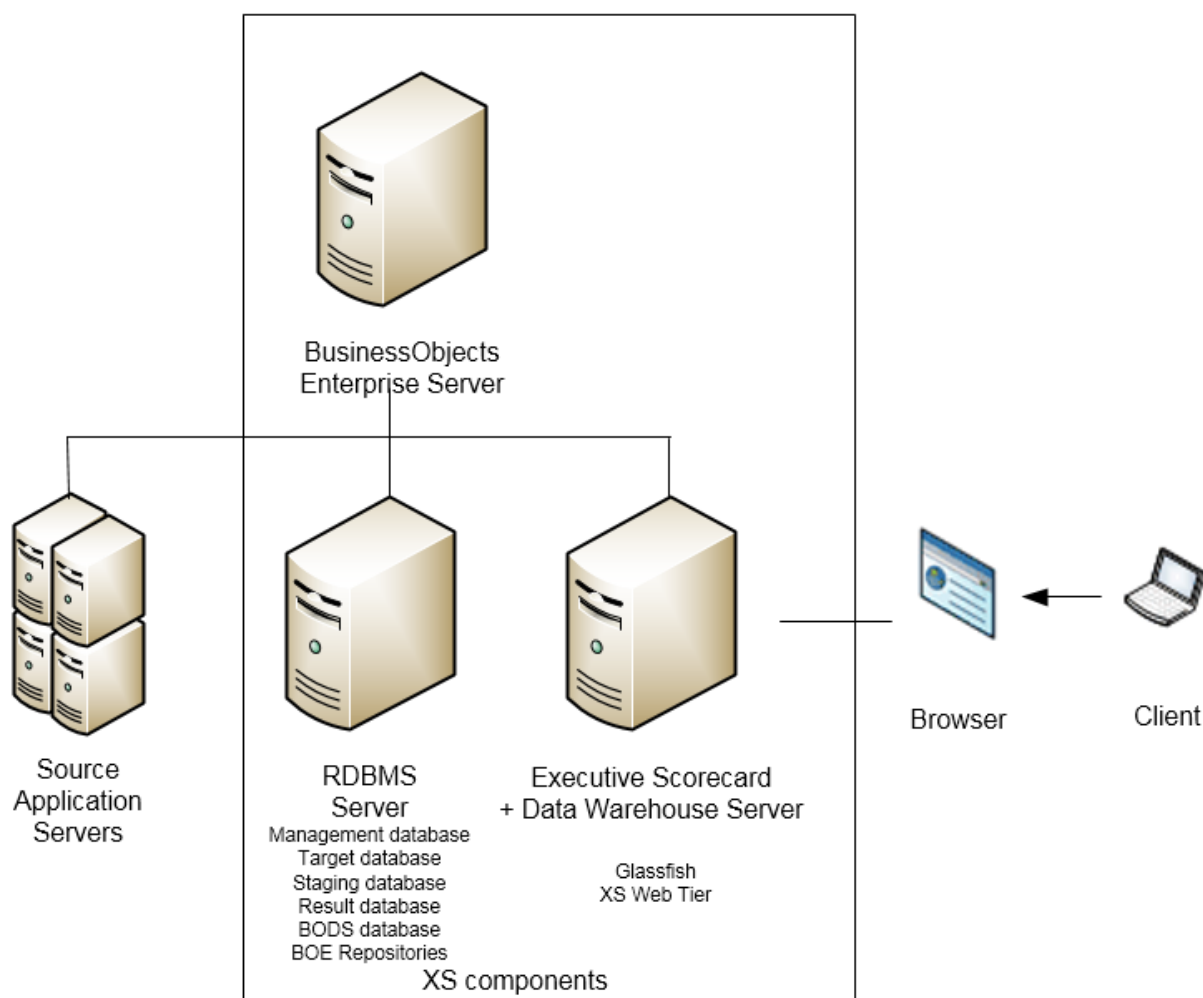
**Note:**

- The 2 server configuration can also be used in production environments.

• **Three servers**

In such a configuration:

- RDBMS is installed on one server. You must have installed it before you begin the Executive Scorecard installation process.
- Executive Scorecard and the Data Warehouse are installed on one server.
- SAP BusinessObjects Enterprise is installed on one server



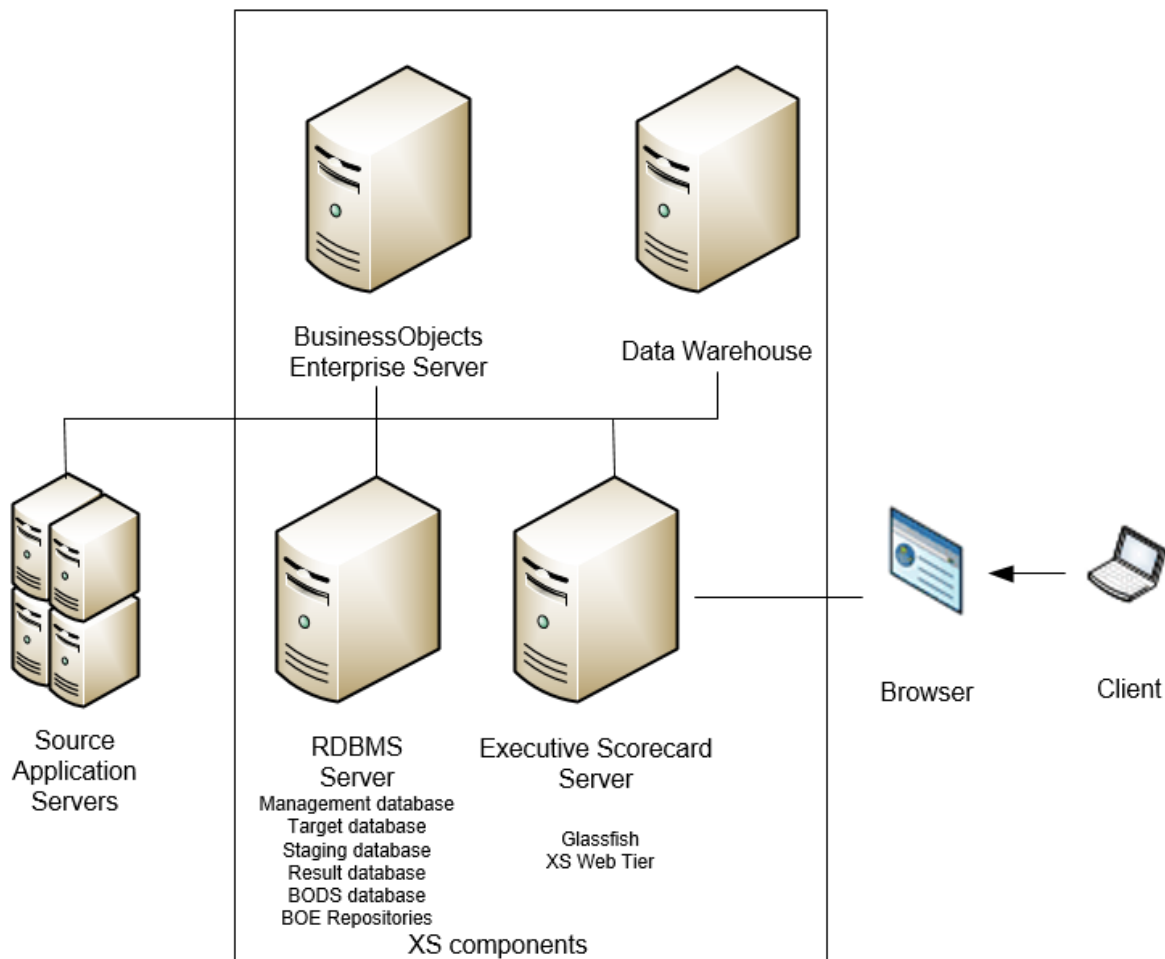
• **Four servers**

- RDBMS is installed on one server. You must have installed it before you begin the Executive Scorecard installation process. The data sources can be remote or local.
- SAP BusinessObjects Enterprise is installed on one server.
- Data Warehouse is installed on one server.

- Executive Scorecard is installed on one server.

This is the recommended configuration.

Executive Scorecard and Data Warehouse must not be installed on the same server.



## Application Servers Sizing

The tables below describe the recommended hardware requirements for the various XS components in the different supported environments.

The requirements apply to both VMWare environments or physical machines.

### 2 Servers Configuration

Scenario:

1. Less than 50 concurrent users.
2. ETL, KPI calculation should not run while someone is using the UI and calculations are expected to run at night.

3. 1-3 data sources should be activated simultaneously.
4. Clean db should be performed before activating other sources.
5. Delta Load is expected to run daily.
6. ETL consumes less than 1000000 records for each data source per day.
7. Less than 20 BOE customized reports.

For such an environment, ensure that the server meets the below requirements.

Application Server	Item	Requirements
<b>Executive Scorecard Server</b>	RAM	16GB
	Free disk space	100GB
	Processor	8 Cores in any configuration
	Required Ports	<ul style="list-style-type: none"> <li>• ports for the Central Management Console (CMC): 6400,6410, or 8080</li> <li>• port for the Server Intelligence Agent (SIA): 8080I</li> <li>• ports: 10001 to 10010, 11020, and 11021</li> <li>• HTTP default port: 80. You can select non default HTTP and HTTPS ports during post install</li> <li>• HTTPS default port: 443. You can select non default HTTP and HTTPS ports during post install</li> <li>• MS SQL server listener default port: 1433.</li> </ul>
<b>SQL Server</b>	RAM	16GB
	Free disk space	300GB
	Processor	8 Cores
	Required Ports	MS SQL server listener default port: 1433.

**Note:** Additional ports are: Tomcat listener default port: 8080.

### 3 Servers Configuration

Scenario:

1. Less than 100 concurrent users.
2. ETL, KPI calculation should not run while someone is using the UI and calculations are expected to run at night.
3. 1-3 data sources should be activated simultaneously.
4. Clean db should be performed before activating other sources.
5. Delta Load is expected to run daily.

6. ETL consumes less than 1000000 records for each data source per day.
7. Less than 50 BOE customized reports.

For such an environment, ensure that the server meets the below requirements.

Application Server	Item	Requirements
<b>Executive Scorecard Server</b>	RAM	16GB
	Free disk space	100GB
	Processor	8 Cores
	Required Ports	<ul style="list-style-type: none"> <li>• ports: 10001 to 10010, 11020, and 11021</li> <li>• HTTP default port: 80. You can select non default HTTP and HTTPS ports during post install</li> <li>• HTTPS default port: 443. You can select non default HTTP and HTTPS ports during post install</li> </ul>
<b>SAP BusinessObjects Enterprise Server</b>	RAM	16GB
	Free disk space	80GB
	Processor	4 Cores
	Required Ports	<ul style="list-style-type: none"> <li>• ports for the Central Management Console (CMC): 6400,6410, or 8080</li> <li>• port for the Server Intelligence Agent (SIA): 8080I</li> </ul>
<b>SQL Server</b>	RAM	16GB
	Free disk space	300GB
	Processor	8 Cores
	Required Ports	MS SQL server listener default port: 1433.

**Note:** Additional ports are: Tomcat listener default port: 8080.

For details about the installation procedure, consult Software Support.

#### 4 Servers Configuration

The possible scenarios are described in the titles of the columns in the table below.

**Note:**

- The following requirements apply to both VMWare environments or physical machines.
- The requirements are listed according to small, medium, and large environments, with ETLs that are run at most once every day.

For such an environment, ensure that the server meets the below requirements.

Application Server	Item	Requirements		
		Small environment (2 or 3 data source instances, <=20 concurrent users)	Medium environment (<8 data source instances, <=100 concurrent users)	Large environment (>8 data source instances, >100 concurrent users)
<b>SAP BusinessObjects Enterprise Server</b>	RAM	16GB	16GB	24GB
	Free disk space	80GB	80GB	80GB
	Processor	4 Cores in any configuration	8 Cores in any configuration	16 Cores in any configuration
	Required Ports	<ul style="list-style-type: none"> <li>• port for the Central Management Console (CMC): 8080</li> <li>• port for the Central Management Server (CMS): 6400 and 6410</li> <li>• port for the Server Intelligence Agent (SIA): 8080</li> </ul>		
<b>Data Warehouse Server</b>	RAM	16GB	16GB	24GB
	Free disk space	80GB	120GB	160GB
	Processor	4 Cores in any configuration	8 Cores in any configuration	16 Cores in any configuration
	Required Ports	<ul style="list-style-type: none"> <li>• ports: 10001 to 10010, 11020, 11021, and 28080.</li> <li>• HTTP default port: 80. You can select non default HTTP and HTTPS ports during post install</li> <li>• HTTPS default port: 443. You can select non default HTTP and HTTPS ports during post install</li> </ul>		

Application Server	Item	Requirements		
		Small environment (2 or 3 data source instances, ≤20 concurrent users)	Medium environment (<8 data source instances, ≤100 concurrent users)	Large environment (>8 data source instances, >100 concurrent users)
Executive Scorecard Server	RAM	12GB	16GB	24GB
	Free disk space	80GB	80GB	80GB
	Processor	4 Cores in any configuration	8 Cores in any configuration	16 Cores in any configuration
	Required Ports	<ul style="list-style-type: none"> <li>ports: 10001 to 10010, 11020, 11021</li> <li>HTTP default port: 80.</li> <li>HTTPS default port 443.</li> </ul> You can select non default HTTP and HTTPS ports during post install		
SQL Server	RAM	32GB	48GB	64GB
	Free disk space	500GB	1TB	5TB
	Processor	8 Cores in any configuration	24 Cores in any configuration	31 Cores in any configuration
	Required Ports	MS SQL server listener default port: 1433.		

**Note:** Additional ports are: Tomcat listener default port: 8080.

## Capacity Calculator

While the default configuration permits running the application, sizing the servers where XS is installed may be necessary to achieve optimum performance. Since each configuration is different, you should use the Capacity Calculator to verify if your configuration requires sizing. Proper sizing of the servers where XS is to run is the foundation of successful deployment. To ensure optimal sizing, HP strongly recommends using the Capacity Calculator.

The product includes a Capacity Calculator that helps you predict system behavior and perform capacity planning. You enter the number of users, data sources, Dashboard pages and reports you want to use, and more. The calculator then displays the disk size, the memory size and the number of CPU Cores for each component of XS . This enables you to determine whether your configuration requires tuning.

**To access:**

Open the Capacity Calculator in Excel format (click [Capacity Calculator](#) to access it).



## Tasks

### Calculate the Sizing for your Site

Open the Capacity Calculator in Excel format (click [Capacity Calculator](#) to access it).

1. Select the size for **Concurrent Users**, **Pages**, and **Reports**. Select **On** if you want to use **ITFM**; **Off** if you don't.
3. In the **Activated?** column, select **Yes** for the Content Packs you want to activate.
4. In the **Source Data Sizing** column, select **small**, **medium**, or **large** for the relevant Content Pack. Default is **Medium**.
5. In the **Initial Load Period** column, select the relevant load period in months. The default is 12 months.
6. If you use or plan to use customized Content Packs, select **Yes** in the **Activated?** column, the relevant size in **Source Data Sizing**, and the period in **Initial Load Period (Months)**.
7. Click **Calculate** to evaluate the needed capacity.
8. Click **Reset** to reset the values.

**Note:** The Disk Size (GB) value includes the disk space needed for the initial load data and the space for the data of the following year.

## UI Description

### Instructions tab

Provides the instructions on how to use the Capacity Calculator.



## Capacity Calculator Page

### <Questionnaire> area

User interface elements are described below (when relevant, unlabeled elements are shown in angle brackets>):

UI Element	Description
<b>Concurrent Users</b>	Click the cell and use the drop down list to select the maximum number of concurrent users (<20, 20-100, >100).
<b>Pages</b>	Click the cell and use the drop down list to select the maximum number of Dashboard pages you plan to create (<50, 50-200, >200).
<b>Reports</b>	Click the cell and use the drop down list to select the maximum number of Dashboard page components that include Webi reports you plan to create (<50, 50-200, >200).
<b>ITFM</b>	<b>On</b> if you plan to use ITFM. <b>Off</b> if you do not plan to use ITFM.
<b>CP Name</b>	The name of the content pack (corresponding to a data source): <ul style="list-style-type: none"> <li>• <b>ALM</b> - HP Application Lifecycle Management</li> <li>• <b>AM</b> - HP Asset Manager</li> <li>• <b>AWS</b> - Amazon Web Services</li> </ul>

	<ul style="list-style-type: none"> <li>• <b>AWSCW</b> - Amazon Web Service CloudWatch</li> <li>• <b>BSM</b> - HP Business Service Management</li> <li>• <b>CSA</b> - HP Cloud Service Automation</li> <li>• <b>DP</b> - HP Data Protector</li> <li>• <b>FPA</b> - IT Financial Management</li> <li>• <b>HPV</b> - Hyper-V</li> <li>• <b>IC</b> - HP Insight Control</li> <li>• <b>NA</b> - HP Network Automation</li> <li>• <b>NNM</b> - HP Network Node Manager</li> <li>• <b>OO</b> - HP Operation Orchestration</li> <li>• <b>PPM</b> - HP Project and Portfolio Management</li> <li>• <b>SA</b> - HP Server Automation</li> <li>• <b>SE</b> - HP Storage Essentials</li> <li>• <b>SM</b> - HP Service Manager</li> <li>• <b>UCMDB</b> - HP Universal Configuration Management Database</li> <li>• <b>VCM - vCenter Chargeback Manager</b></li> <li>• <b>&lt;Customized_CP_1&gt;</b> - Out of the Box Content Pack 1</li> <li>• <b>&lt;Customized_CP_2&gt;</b> - Out of the Box Content Pack 2</li> <li>• <b>&lt;Customized_CP_3&gt;</b> - Out of the Box Content Pack 3</li> <li>• <b>&lt;Customized_CP_4&gt;</b> - Out of the Box Content Pack 4</li> <li>• <b>&lt;Customized_CP_5&gt;</b> - Out of the Box Content Pack 5</li> </ul>
<b>Activated?</b>	Click the cell and use the drop down list to select <b>Yes</b> if you plan to activate the data source or <b>No</b> if you do not plan to activate it.
<b>Source Data Sizing</b>	Click the cell and use the drop down list to select <b>Small, Medium, or Large</b> . Go to the <b>Sizing Evaluation Criteria</b> tab to verify the criteria.
<b>Initial Load Period (Months)</b>	Click the cell and use the drop down list to select the relevant load period in months ( <b>6, 12, 24, 36, 48, 60, 120</b> ). The default is 12 months.

### <Suggested Requirements and Deployment Type> area

User interface elements are described below (when relevant, unlabeled elements are shown in angle brackets>):

UI Element	Description
<b>Calculate</b>	Click to calculate the requirements.
<b>Servers</b>	<p><b>DB Server.</b> The server on which the database is installed.</p> <p><b>BOE Server.</b> The server on which SAP BusinessObjects Enterprise is installed.</p>

	<b>DWH Server.</b> The server on which Data Warehouse is installed. <b>XS Server.</b> The server on which XS is installed.
<b>Disk Size (GB)</b>	The suggested free disk space in GB.
<b>Memory Size (GB)</b>	The suggested RAM requirements in GB.
<b>Number of CPU Cores</b>	The suggested number of CPU cores.
<b>Comments</b>	Additional information.

**Sizing Evaluation Criteria tab**

Provides the criteria for your selections in the Calculator tab.

Use the values in the Small, Medium, Large columns corresponding to the relevant Section and Category to evaluate the size you need to enter in the Calculator tab. For example, if in your customized Content Pack (CP) you have more than 200000 records for all entities or your daily new/updated records is more than 500, you should use the Medium size.

**Caution:** Do not modify this table.

A		B			C	D	E	F		G	H
Section	Category	Small	Medium	Large	Comments						
Users	Concurrent Users	<20	20-100	>150							
	Dashboard Pages	<20	20-150	>150							
Reports	Number of Reports	50	100	200							
SM	Number of Incidents	200,000	1,000,000	3,000,000							
	Number of Incidents for delta	500	2,000	10,000	Numbers are new/updated entries per day.						
AM	Number of Assets	200,000	3,000,000	8,000,000							
BSM	Number of Services	30	100	500	Services which are measured in the Service Health SLAs.						
	Number of Applications	100	300	1500							
PPM	Number of Requests	15,000	100,000	300,000							
	Number of Project Tasks	30,000	100,000	600,000							
	Number of Financial Summaries	3,000	15,000	60,000							
DP	Number of Backup-Sessions	500	5,000	50,000							
	Number of Restore-Policies	40	100	400							
NNM	Number of Nodes	25,000	50,000	100,000							
	Number of Defects	50,000	200,000	500,000							
ALM	Number of Defects for delta	20	100	500	Numbers are new/updated entries per day.						
	Number of Tests	20,000	100,000	200,000							
	Number of Tests for delta	10	50	200	Numbers are new/updated entries per day.						
SA	Number of Nodes	3,000	10,000	50,000							
NA	Number of Nodes	3,000	10,000	50,000							
UCMDB	Number of CIs	1,000,000	10,000,000	20,000,000							
IC	Number of Devices	1,000	8,000	30,000							
SE	Number of Devices	1,000	8,000	30,000	Including physical servers as well as VM and Storage Devices						
VCM	Number of Nodes Managed by the VCM system	500	5,000	10,000							
Customized CP	Records of all Entities	200,000	1,000,000	10,000,000							
	Records of all Entities for delta	500	2,000	10,000	Numbers are new/updated entries per day.						

## Performance Benchmark

The Performance Benchmark document provides a benchmark that characterizes the performance of this version of Executive Scorecard version. It provides contextual data regarding the data environment within which a specific functional workload is applied representing the benchmark workload. Test results for a benchmark run within HP Performance Labs are provided for reference purposes.

For details, see the *Performance Benchmark Document*.

# Obsolescence Plans

As of this release, there are no plans to end support for any currently supported version of Executive Scorecard.

# Revision History

Date	Section	Description
June 2014	First Publication	
July 2014	<a href="#">"Integrations and Coexistence" on page 20</a>	CSA 4.1 is supported.
August 2014	Alignment with the new names of the types of Installation - <a href="#">"Hardware" on page 7</a>	
October 2014	Revised list of translated documentation - <a href="#">"Languages" on page 17</a>	
February 2015	9.50 Patch 03 Revision 1 additions	
August 2015	Operating Systems	Changed the supported Operating System from "Microsoft Windows Server 2008 R2 Enterprise Edition and Windows Server 2012" to "Microsoft Windows Server 2008 R2 Enterprise Edition and Windows Server 2012 R2 Standard"
September 2015	9.50 Patch 04	

# Send Documentation Feedback

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We appreciate your feedback!

