

# SAP BusinessObjects BI Platform 4.3

## Supported Platforms (PAM)

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- Minimum Hardware + Operating System Patch Requirements + Supported Locales

This document is also applicable to Edge BI 4.3 and Crystal Server 2020.

### For Edge BI 4.3 and Crystal Server 2020:

- Only Windows and Linux operating systems are supported.

### For Crystal Server 2020:

- The following components are not supported with Crystal Server 2020: Web Intelligence, Analysis, edition for OLAP, SAP BW integration.

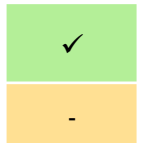
**For BI 4.3 Maintenance Strategy document:** [click here](#)

### How to read the tables in this document

A checkmark means supported with

BI 4.3

“-” means not supported



# Server Components by Operating System <sup>(\*1)</sup>

	Windows <sup>(*2)</sup>			Linux						AIX		Solaris		
	Server 2012 R2	Server 2016	Server 2019	Suse SLES 12 x86_64	Suse SLES 15 x86_64	Red Hat EL 7.7 x86_64	Red Hat EL 8 x86_64	Oracle Linux 7.2 (RHCK) (UEK)	Oracle Linux 7.5 (RHCK) (UEK)	Oracle Linux 7.7 (RHCK) (UEK)	AIX 7.1 Power	AIX 7.2	Solaris 11.3 SPARC	Solaris 11.4 SPARC
64-bit BusinessObjects BI Server Products	(*3)	(*3)		(*4)	(*4)	(*4)	(*4)				TL5 (*5)	TL3 (*5)	(*6)	(*6)
SAP BusinessObjects BI platform	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SAP BusinessObjects Analysis, edition for OLAP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SAP BusinessObjects Web Intelligence	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SAP Crystal Reports for Enterprise	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SAP Crystal Reports 2020	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Mobile Server	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

SAP BusinessObjects BI server components only support 64-bit operating systems. This is not a complete list of platform/connectivity services

(\*1) Dashboard and Explorer is removed from BI4.3 for complete details refer to [SAP Note: 2801797](#)

(\*2) Data Center Edition, Enterprise Edition, Standard Edition, Web Edition. (As Applicable)

(\*3) Update to the latest Windows patches before installing the BI4.3 server

(\*4) RHEL 7.4, 7.5, 7.6 are supported. SLES 12 / 15 above the minimum supported versions listed on this slide are supported by reference. Refer to Page 29 of this document for more information about minimum OS patch requirement

(\*5) AIX 7.1, AIX 7.2 supported from TL1

(\*6) Web Intelligence has performance issues when deployed on Solaris. For more details refer [SAP note : 2934379](#)

# Desktop Clients and Operating System <sup>(\*1)</sup>

Only 64-bit OS support: [details](#)

	Windows Server			Windows Desktop		Mac			
	Server 2012 R2	Server 2016	Server 2019	Windows 8.1	Windows 10	Mac OS X 10.11	Mac OS X 10.15	Mac OS Sierra	Mac OS High Sierra
64-bit BusinessObjects BI Desktop Clients	(*2)			(*2)	(*3)				
SAP BusinessObjects BI Client Tools	✓	✓	✓	✓	✓	-	-	-	-
SAP BusinessObjects Live Office (*4)	✓	✓	✓	✓	✓	-	-	-	-
SAP BusinessObjects Web Intelligence Rich Client	✓	✓	✓	✓	✓	-	-	-	-
SAP Crystal Reports for Enterprise	✓	✓	✓	✓	✓	-	-	-	-
SAP Crystal Reports 2020	✓	✓	✓	✓	✓	-	-	-	-
SAP Crystal Reports Viewer 2020	✓	✓	✓	✓	✓	-	-	-	-

(\*1) Dashboard and Explorer is removed from BI4.3 for complete details refer to [SAP Note: 2801797](#).

(\*2) Update to latest windows patches before installation of the BI 4.3 Desktop clients.

(\*3) Patch 1903 and later

(\*4) SAP BusinessObjects Live Office supports both 32 bit and 64 bit OS

SAP BusinessObjects Business Intelligence platform .NET SDK Runtime 32 bit and SAP User Management Client are supported on 32 bit platforms

# Mobile Clients supported with this release

Please refer to the SAP BusinessObjects Mobile Clients Supported Platforms (PAM).

Please note that BI Platform content is only supported on-device through Mobile BI where applicable. For example, BI platform content is not supported directly in Safari on iPad or Chrome on Android, only through the Mobile BI apps on these platforms.

# Language Support by Products

UI: The user interface for all BI 4.3 products is localized into the languages listed below.

Data: Data stored in Unicode format can be accessed and displayed in all products and is not restricted to the languages below.

BusinessObjects Enterprise Products	English	French	German	Japanese	Spanish	S Chinese	Italian	Dutch	Russian	Korean	T Chinese (*1)	Portuguese	Swedish	Polish	Danish	Norwegian	Finnish	Thai	Czech	Hungarian	Slovakian	Turkish	Romanian	Slovenian	Ukrainian (***)(*4)	Kazakh (***)(*4)	Arabic (***)	Hebrew (***)
BusinessObjects BI Server Products	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BusinessObjects BI Desktop Products	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

(\*\*\*) Arabic, Hebrew, Ukrainian and Kazakh Support

**BI launch pad (\*2) (\*3)**

**BI workspaces (viewing only) (\*3)**

**Crystal Reports Web Viewer (\*3)**

**Web Intelligence**

-Web Intelligence Rich Internet Application (Fiori Viewer) (\*3)

-Web Intelligence Rich Client

**Analysis, edition for OLAP (\*3)**

(\*1) Traditional Chinese is not supported by Platform Search

(\*2) BI platform plug-in components that can be accessed through the BI launch pad are not all supported in Arabic. Supported BI platform plug-in components are listed separately in this table.

(\*3) For those browser-based components that support Arabic, support is limited to Internet Explorer and Firefox.

(\*4) Ukrainian and Kazakh is not supported in Universe design tool.

# Browser Support by Operating System

Web Browser	Windows Server			Windows Desktop		Mac OS			
	Server 2012 R2	Server 2016	Server 2019	Windows 8.1	Windows 10	Mac OS X 10.11	Mac OS X 10.15	Mac OS Sierra	Mac OS High Sierra
Microsoft IE 11 desktop version (*3)	✓	✓	✓	✓	✓	-	-	-	-
Microsoft Chromium Edge	✓	✓	✓	✓	✓	-	-	-	-
Mozilla Firefox ESR 60.X(*1)	✓	✓	✓	✓	✓	-	-	-	-
Mozilla Firefox ESR 68.X(*1)	✓	✓	✓	✓	✓	-	-	-	-
Google Chrome(*2)	✓	✓	✓	✓	✓	-	-	-	-
Safari 11	-	-	-	-	-	✓	-	-	-
Safari 12	-	-	-	-	-	-	-	✓	-
Safari 13	-	-	-	-	-	✓	✓	✓	✓

Only 64 bit browsers are supported.

Web Intelligence in BI4.3 is touch ready for Reading mode only.

(\*1) For more information about Firefox Extended Support Releases (ESR): <http://www.mozilla.org/en-US/firefox/organizations/faq/>

(\*2) The current version of Google Chrome is supported based on testing with earlier versions of Chrome. Although SAP will work to maintain compatibility with Google Chrome, please be aware that issues may be introduced when significant changes to between releases.

(\*3) Limitations with respect to IE 11 please refer to SAP Note [1903267](#)



# Java Application Server Support by Operating System [1/2]

The platforms on this slide are supported as application servers. For more information, please refer to the Web Application Deployment Guide.

See next slide for footnotes 1-2 and explanations on how to read the table.

			Windows Server	Linux	AIX	Solaris
			<i>Oracle/Sun JDK</i>	<i>Oracle/Sun JDK</i>	<i>IBM Java</i>	<i>Oracle/Sun JDK</i>
Application Server <sup>(*2)</sup>	Version	Java Version				
SAP NetWeaver Java Application Server	7.50 SP15	SAP JVM 8 <sup>(*2)</sup>	✓	✓	✓	✓
Apache Tomcat <sup>(*5)</sup>	8.0	Java 8, SAP JVM 8	✓	✓	✓	✓
Apache Tomcat <sup>(*5)</sup>	9.0	Java 8, SAP JVM 8	✓	✓	✓	✓
Oracle WebLogic Server	12.2.x	Java 8	✓	✓	✓	✓
IBM WebSphere Application Server <sup>(*3)</sup>	8.5.5.11	Java 8 <sup>(*1)</sup>	✓	✓	✓	✓
	9.0	Java 8 <sup>(*1)</sup>	✓	✓	✓	✓
	Liberty 19	Java 8 <sup>(*1)</sup>	✓	✓	✓	✓
JBoss EAP <sup>(*4)</sup>	7.1	Java 8	✓	✓	✓	✓
	7.2	Java 8	✓	✓	✓	✓

Note: Any HTTP server supported by the application server vendor can be used with the supported application server

<sup>(\*1 - \*2)</sup> See next page.

<sup>(\*3)</sup> Support for the WebSphere On Demand Router is described in [SAP Note 1869511](#).

<sup>(\*4)</sup> To use JBOSS with Mobile Server refer SAP Note 2207211. BOE 4.x SOAP Web Services (dswsbobje) deployment on JBoss Application Server refer [SCN](#).

<sup>(\*5)</sup> Apache Tomcat, a free open-source third-party web application server, is not an SAP product. SAP recommends you contact a qualified third-party vendor or consultant for performance tuning, security related issues and load balancer configurations (see KBA 2280098).

# Java Application Server Support by Operating System [2/2]

The table below describes how to read the SDK version dependency for each Operating System.

For example: When an application server is noted as supported with Java 8, and the operating system notes that it is a Oracle JDK, it means that this is Oracle JDK 8 release. Similar for IBM Java.

	Oracle/Sun JDK	IBM Java
Java 8	Oracle JDK 8	IBM Java 8

Only Java Application Server utilizing 64-bit JDK's are supported

(\*1) IBM WebSphere is supported with IBM Java SDK when applicable

(\*2) SAP NetWeaver is supported with SAP JVM on all supported operating systems

# IIS Support by Operating System (IOMS only)

IIS is supported for Integration option for Microsoft SharePoint (IOMS) only.

Application Server	Version	Windows Server 2012 R2	Windows Server 2016	Windows Server 2019
IIS	8.5	✓	-	-
	10	-	✓	✓

# Portal Server Support by Operating System

		Windows Server	Linux	AIX	Solaris
Portal Server	Version				
SAP Netweaver Enterprise Portal	7.40 SP19	✓	✓	✓	✓
	7.50 SP16	✓	✓	✓	✓
IBM Websphere Portal	8.5	✓	✓	✓	✓
	9.0	✓	✓	✓	✓
Microsoft SharePoint (*1)	2013	✓	-	-	-
	2016	✓	-	-	-

# CMS + Audit Repository Support by Operating System (1/2)

Only 64-bit database connector middleware is supported

Provider Name	Version	Database Connector (*3)	Windows Server <sup>(*1)</sup>	Linux <sup>(*1)</sup>	AIX <sup>(*1)</sup>	Solaris <sup>(*1)</sup>
IBM DB2 for Linux, UNIX, and Windows	10.5	DB2 Client 10.5	✓	✓	✓	-
	11.1	DB2 Client 11.1	✓	✓	✓	-
IBM DB2 Workgroup Edition	10.5	DB2 Client 10.5	✓	✓	✓	-
	11.1	DB2 Client 11.1	✓	✓	✓	-
Microsoft SQL Server	2012 SP4	Microsoft ODBC driver for SQL Server (WDAC 6)	✓	-	-	-
	2014	SQL Server Native Client 11 or ODBC Driver 13	✓	-	-	-
	2016	Microsoft ODBC Driver 13	✓	-	-	-
	2017	Microsoft ODBC Driver 13	✓	-	-	-
	2019	Microsoft ODBC Driver 13	✓	-	-	-
Azure SQL Server		Microsoft ODBC Driver 13	✓			
MySQL AB	5.7.19	MySQL C-API	✓	✓	✓	-
	8.0	MySQL C-API	✓	✓	✓	-
MaxDB	(7.9.08.40)		✓	✓	✓	-

(\*1) Operating system on which the BI platform is installed

IBM DB2 is not supported with Solaris 11.

MySQL AB is not supported with Solaris 11. Refer SAP Note: [2733936](#)

# CMS + Audit Repository Support by Operating System (2/2)

Only 64-bit database connector middleware is supported

			Windows Server <sup>(*2)</sup>	Linux <sup>(*2)</sup>	AIX <sup>(*2)</sup>	Solaris <sup>(*2)</sup>
Provider Name	Version	Database Connector (*3)				
Oracle (*3)	12c (*4)	Oracle Net Client 12c	✓	✓	✓	✓
	12c R2	Oracle Net Client 12c	✓	✓	✓	✓
	18c	Oracle Net Client 18c	✓	✓	✓	✓
	19c (*4)	Oracle Net Client 19c	✓	✓	✓	✓
SAP HANA	SPS12		✓	✓	✓	✓
SAP HANA 2.0	SPS 03		✓	✓	✓	✓
	SPS 04		✓	✓	✓	✓
Sybase Adaptive Server Enterprise	15.7	Sybase Open Client 15.7	✓	✓	✓	✓
	16	Sybase Open Client 16	✓	✓	✓	✓
Sybase SQL Anywhere	17 <sup>(*1)</sup>	Sybase SQL Anywhere ODBC Driver 17	✓	✓	✓	✓

(\*1) Bundled on all supported platforms.

(\*2) Operating system on which the BI platform is installed.

(\*3) Oracle Real Application Cluster is supported.

(\*4) Oracle Exadata is supported

# Directory Server (LDAP) Support by Operating System

	Windows	Linux	AIX	Solaris
Directory Server (LDAP)				
CA Directory 14.0.14803	✓	✓	✓	✓
IBM Tivoli Directory Server 6.4	✓	✓	✓	✓
Microsoft Active Directory 2012 R2	✓	✓	✓	✓
Microsoft Active Directory 2016	✓	✓	✓	✓
Microsoft Active Directory 2019	✓	✓	✓	✓
NetIQ eDirectory 9.0 SP02	✓	✓	✓	✓
NetIQ eDirectory 9.1.3	✓	✓	✓	✓
Oracle Internet Directory 11gR2	✓	✓	✓	✓
Oracle Internet Directory 12.2.x	✓	✓	✓	✓
ODSEE 11g Release 1 (11.1.1)	✓	✓	✓	✓
Redhat LDAP Server 10.4.0	✓	✓	✓	✓

# Other Technology Support by Operating System [1/2]

		Windows	Linux	AIX	Solaris
Technology	Technology Version				
Microsoft Active Directory	Microsoft Active Directory 2012 R2 (including LDS support)	✓	-	-	-
	Microsoft Active Directory 2016 (including LDS support)	✓	-	-	-
	Microsoft Active Directory 2019 (including LDS support)	✓			
Microsoft .NET Framework	.NET Framework 4.6.2	✓	-	-	-
	.NET Framework 4.7.1	✓	-	-	-
	.NET Framework 4.7.2	✓	-	-	-
	.NET Framework 4.8	✓	-	-	-
Computer Associates Access Management	eTrust Siteminder 12.52 SP1	✓	✓	✓	✓
	eTrust Siteminder 12.8	✓	✓	✓	✓
SAP GUI	SAP GUI 7.60	✓	-	-	-
SAP HANA Vora (*1)		✓	✓	✓	✓

Reverse Proxy
Apache HTTP Server 2.2 and 2.4
WebSEAL 6 and 7

Not supported for Mobile Server

(\*1) Please refer slide 25



# Other Technology Support by Operating System [2/2]

		Windows	Mac OS
Technology	Technology Version		
Adobe Reader	Version 19	✓	✓
Microsoft Office <sup>(*1)(*3)</sup>	Microsoft Office 2013	✓	-
	Microsoft Office 2016	✓	-
	Microsoft Office 2019	✓	-
	Office 365 <sup>(*2)</sup>	✓	-

(\*1) SPs of Microsoft Office that are higher than the minimum listed SPs are supported by reference

(\*2) No support for integrating with Office 365 cloud offerings as such. Office 365 support is only for the version of Microsoft Office being supported

(\*3) MS Office 64 bit is supported on Live Office.

# Virtualization Technology Support

## Server Virtualization

Refer to the [SAP Note 1492000](#) for the general statement on virtualization technology support, and related notes for virtualization support on operating systems supported in this release

## Desktop Virtualization

Refer to the table below:

Desktop Virtualization		Windows	Linux
Citrix	XenApp 7.6 [Windows Server 2012 R2]	✓	-
	XenApp 7.11, 7.12, 7.15 [Windows Server 2016]	✓	-
Microsoft	Remote Desktop Services	✓	-
	Hyper V	SAP Note 1492000	-
Remote Desktop Protocol (RDP) Connectivity	FreeRDP [Suse SLES v12]	-	✓
	Rdesktop [SUSE SLES v12]	-	✓
	Cendio Thinlinc [Windows Server 2016]	✓	-
	Cendio Thinlinc [Suse SLES v12]	-	✓

# Cloud Infrastructure Support

SAP Business Intelligence 4.3 solutions can be deployed on cloud infrastructure for productive and non-productive purposes.

The following cloud infrastructure offerings are certified for deployment:

Cloud Infrastructure Offering	Additional Notes (for supported combinations, client/server components)
SAP HANA Enterprise Cloud (HEC)	Support via HEC Solution Portfolio List (*1)
Amazon Web Services (AWS)	<a href="#">SAP Note 1656099</a>
Microsoft Azure Cloud	<a href="#">SAP Note 2145537</a>
IBM SoftLayer Cloud	<a href="#">SAP Note 2279688</a>
Alibaba Cloud (JuShiTa variant)	<a href="#">SAP Note 2314398</a>
Alibaba Cloud	<a href="#">SAP Note: 2688086</a>
Google Cloud Platform (Compute Engine)	<a href="#">SAP Note 2538880</a>
Oracle Cloud	<a href="#">SAP Note: 2650732</a>

(\*1) Edge BI products not supported on HEC

# OLAP Server Support by Operating System

			Windows	AIX	Linux	Solaris
Provider Name	Version	Connectivity				
SAP BW	See SAP BW slide	BICS	✓	✓	✓	✓
Microsoft SQL Server Analysis Services	2008 R2	XMLA	✓	✓	✓	✓
	2012	XMLA	✓	✓	✓	✓
	2014	XMLA	✓	✓	✓	✓
	2016	XMLA	✓	✓	✓	✓
	2017	XMLA	✓	✓	✓	✓
SAP BusinessObjects Financial Consolidation	V7.5	XMLA	✓	✓	✓	✓
	v10	XMLA	✓	✓	✓	✓
SAP BusinessObjects Planning and Consolidation for Microsoft platform	7.5 SP5	XMLA	✓	✓	✓	✓
	v10	XMLA	✓	✓	✓	✓
SAP BusinessObjects Planning and Consolidation for NetWeaver	v10	BICS	✓	✓	✓	✓
SAP BusinessObjects Profitability and Cost Management	7.5 SP12	XMLA	✓	✓	✓	✓
	v10	XMLA	✓	✓	✓	✓
Teradata	v14.10	XMLA	✓	✓	✓	✓
	v15	XMLA	✓	✓	✓	✓
Oracle Essbase	v11	JAPI	✓	✓	✓	✓
Oracle OLAP	v11.1.0.7 +	XMLA	✓	✓	✓	✓

# SAP BW Minimum version per product – overview (\*1)

Please refer to [SAP Note 1869560](#), for details on the level of support for BEx query elements, and typical BEx query functionality for all BI client tools.

Product	Connectivity	BW 7.01 SPS 06+	BW 7.01 SPS 08+	BW 7.02 SPS 02+	BW 7.30 SPS 03+	BW 7.31 SPS 04+	BW 7.40 SPS 02+	BW 7.50 upto SPS 17+
Web Intelligence	BICS (Direct to BW and via a dimensional UNX)	(*6)	(*6)	(*6)	(*6)	(*6)	✓	✓
Crystal Reports for Enterprise		✓	✓	✓	✓	✓	✓	✓
Web Intelligence	UNV OLAP	✓	✓	✓	✓	✓	✓	✓
Live Office		✓	✓	✓	✓	✓	✓	✓
Web Intelligence	Multi source universe (Relational)	✓	✓	✓	✓	✓	✓	✓
Crystal Reports Enterprise		✓	✓	✓	✓	✓	✓	✓
Live Office		✓	✓	✓	✓	✓	✓	✓
Analysis, edition for OLAP (*2)	BICS (Direct to BW)	-	✓	✓	✓	✓	✓	✓
Analysis, edition for Microsoft Office (*3)		(*5)	(*5)	(*5)	(*5)	(*5)	(*5)	(*5)
Crystal Reports for Enterprise	Direct to Data (D2D)	-	-	-	-	-	-	-
Crystal Reports 2020	Direct BW Connection	✓	✓	✓	✓	✓	✓	✓
BEx Web Applications (*4)	(Integrated with BI 4)	-	✓	✓	✓	✓	✓	✓

(\*1) Latest BW version is supported with all BI 4.3 versions

(\*2) Analysis, edition for OLAP additionally supports BW 7.0 SPS23+

(\*3) Analysis, edition for Microsoft Office standalone (not used with BI 4) supports any BW release as of 7.0 (no specific SP needed)

(\*4) Please consult SAP notes 1541365 and 1476156

(\*5) Use Analysis, edition for MSFT Office 2.8 SP3 version or higher with BI 4.3. Refer to the Analysis, edition for MSFT Office PAM for details

(\*6) Web Intelligence BICS (Direct to BW and via dimensional UNX) is not recommended on BW 7.03 and previous versions.

# SAP S/4HANA Minimum version per product - overview

Product	Connectivity	S/4 HANA 1511 FPS2	S/4 HANA OP1 1511 SPS3	S/4 HANA 1610	S/4 HANA 1709	S/4 HANA 1805	S/4 HANA 1809 SPS2	S/4 HANA 1909
Web Intelligence	BICS (Direct to Bex and via a dimensional UNX)	✓	✓	✓	✓	✓	✓	✓
Crystal Reports for Enterprise		✓	✓	✓	✓	✓	✓	✓
Analysis, edition for OLAP	BICS (Direct to BEx)	✓	✓	✓	✓	✓	✓	✓
Analysis, edition for Microsoft Office	BICS (Direct to BW)	✓	✓	✓	✓	✓	✓	✓

# BW/4HANA Minimum version per product - overview (\*1)

Product	Connectivity	SAP BW/4 HANA 1.0 SP09	SAP BW/4 HANA 1.0 SP14	SAP BW/4 HANA 2.0 SP01 – SP05
Web Intelligence	BICS (Direct to Bex and via a dimensional UNX)	✓	✓	✓
Crystal Reports for Enterprise		✓	✓	✓
Crystal Reports 2020	Direct to BW query	✓	✓	✓
Analysis, edition for OLAP	BICS (Direct to BEx)	✓	✓	✓
Analysis, edition for Microsoft Office	BICS (Direct to BW)	✓	✓	✓

Note: multisource relational universes are not supported on BW/4HANA

(\*1) Latest BW/4 4HANA version is supported with all BI 4.3 versions

# SAP HANA Support per product - Overview

Product	Connectivity	HANA SPS11	HANA SPS12	HANA 2.0 SPS03	HANA 2.0 SPS04
Web Intelligence	UNIX relational universe, direct access, online access	✓	✓	✓	✓
Crystal Reports for Enterprise	UNIX (Relational Universe)	✓	✓	✓	✓
Live Office (*2)		✓	✓	✓	✓
Crystal Reports 2020	Direct Connection	✓	✓	✓	✓
Crystal Reports for Enterprise	Direct to Data	✓	✓	✓	✓
Analysis Edition for OLAP	INA / HTTP	✓	✓	✓	✓
Analysis Edition for Microsoft Office(*1)(*3) (*5)	INA / HTTP	✓	✓	✓	✓

(\*1) Please refer to the Analysis, Edition for Microsoft Office PAM for details.

(\*2) Range prompts not supported for relational UNIX created on HANA

(\*3) Use Analysis, edition for MSFT Office 2.8 SP3 version or higher with BI 4.3.

(\*4) The BI 4.3 release supports the latest HANA SPS, since HANA is backward compatible.

(\*5) With Hana 2. HANA 2 the SAP HANA plugin EPM-MDS is required



# SAP HANA Cloud Support per product - Overview

Product	Connectivity	SAP HANA Cloud 1.0
Web Intelligence	UNX (Relational Universe)	✓
Crystal Reports for Enterprise		✓
Web Intelligence	UNV universes	✓

# Data Access

Suggested way to view find needed information: select Operating system + filter on Sources for your choice of data access.

## Semantic Layer & Connection Server – Data Sources

- Please consult the file [Semantic Layer Datasources](#)
- Notes:
- UNICODE is supported for all data sources, unless otherwise indicate in the Note of the attached file

## Crystal Reports for Enterprise – Direct to Data (D2D) Sources

- Please consult the file [CR Enterprise D2D Data Access](#)
- Notes:
- Crystal report for enterprise is a 64-bit application and need 64-bit database driver on client.
- Crystal reports for enterprise requires the 64-bit ODBC driver on server. To administer 64-bit ODBC DSNs on 64-bit versions of windows, run the 64-bit ODBC Administrator, located here: %windir%\System32\odbcad32.exe

## Crystal Reports 2020 – Data Sources

- Please consult the file [CR 2020 Data Access](#)
- Notes:
- Crystal Reports is offered as a 64-bit native binary. It requires 64-bit data source middleware connectivity on all operating systems.
- Crystal Reports uses the 64-bit ODBC registry on all versions of Windows. To administer 64-bit ODBC DSNs on 64-bit versions of Windows, run the 64-bit ODBC Administrator, located here: %windir%\System32\odbcad32.exe

# Data Services, Information Steward, Lumira and Analysis for Office

Please refer to [SAP note 1740516](#) for information regarding the compatibility of Data Services and Information Steward.

For Add on Support on BI Platform, Please refer respective PAM.

**Lumira:**

Please refer Lumira PAM.

Note: A mandatory upgrade to Lumira 2.4 is needed for Lumira support on BI 4.3.

Refer SAP Note [2903302](#) for additional information.

**Analysis For Office:**

Please refer Analysis for Office PAM.

Note: Analysis for Office 2.8 SP3 and greater is compatible with BI4.3

# Appendix

# Minimum HW and OS Patch Requirements - Windows

## Minimum Screen Resolution

Screen resolution of [1024] x [768] is recommended

## Minimum Server Hardware Requirements

### For Evaluation Purposes:

CPU performance of at least 8000 SAPS

16 GB RAM minimum (at least 8GB of free memory is required to launch Promotion Management Wizard)

### For Deployment & Sizing:

Please refer to the [BI4 Sizing Guide](#), or check out the [SAP BI Platform sizing & Deployment wiki](#) or your SAP representative.

•For more information on SAPS, see the SAP Sizing portal: <http://service.sap.com/sizing> and also the SAP benchmarked vendor hardware list:

<https://www.sap.com/about/benchmark.html>

•If deploying to virtualized hardware, it is strongly recommended that the memory and CPU(s) be reserved for each virtual machine that is running the BI services.

## Minimum Client Hardware Requirements

Dual Core CPU

2 GB RAM

## Required Disk Space Requirements

### SAP BusinessObjects BI (client installer):

BI4.3 Patch Update : 8 GB

BI4.3 Full Installation: 10.5 GB

### SAP BusinessObjects BI (server installer):

BI4.3 Patch Update : 13.5 GB

BI4.3 Full Installation : 37 GB

Minimum OS Patch Requirements: Its strongly recommended that systems are updated with the latest Microsoft Updates and all the required components are present.

# Minimum HW Requirements - Linux

## Minimum Server Hardware Requirements

### For Evaluation Purposes:

CPU performance of at least 8000 SAPS

For single user , 16 GB RAM minimum (at least 8GB of free memory is required to launch Promotion Management Wizard)

### For Deployment & Sizing:

Please refer to the [BI4 Sizing Guide](#), or check out the [SAP BI Platform sizing & Deployment wiki](#) or your SAP representative.

•For more information on SAPS, see the SAP Sizing portal: <http://service.sap.com/sizing> and also the SAP benchmarked vendor hardware list: <https://www.sap.com/about/benchmark.html>

•If deploying to virtualized hardware, it is strongly recommended that the memory and CPU(s) be reserved for each virtual machine that is running the BI services.

**Note:** Compiled binaries of SAP BusinessObjects BI software is supported on versions of the Linux operating system running on CPUs made by AMD or Intel.

## Required Disk Space Requirements

### SAP BusinessObjects BI (server installer):

BI4.3 Patch Update : 13.5 GB

BI4.3 Full Installation : 37 GB

# Minimum OS Patch Requirements - Linux

## Minimum Patch Level for SUSE Linux Enterprise Server 12

Glibc, glibc-32bit

No additional components required outside the SLES 12 RTM install.

For a list of minimum patch requirements, refer to the following [link](#)

## Minimum Patch Level for SUSE Linux Enterprise Server 15

Glibc, glibc-32bit

No additional components required outside the SLES 15 RTM install.

For a list of minimum patch requirements, refer to the following [link](#)

## Required components for Red Hat Enterprise Linux 7

For a list of minimum patch requirements, refer to the following [link](#)

## Required components for Red Hat Enterprise Linux 8

libnsl-2.28-42.el8.i686

libxcrypt-4.1.1-4.el8.i686

glibc-2.5-18 (RedHat advisory RHBA-2007:0619-3)

For a list of minimum patch requirements, refer to the following [link](#)

## Required components for Promotion Management Wizard

Gtk2+ (example: yum install gtk2 libXtst xorg-x11-fonts-Type1)

Default internet browser installed (for embedded help only)

**All OS versions:** Higher patches beyond the specified minimum patch level may be used.

# Supported Locales - Linux

Language	UNIX Locale
Arabic	ar_SA.utf8
Czech	cs_CZ.utf8
Danish	da_DK.utf8
Dutch	nl_NL.utf8
English	en_US.utf8
Finnish	fi_FI.utf8
French	fr_FR.utf8
German	de_DE.utf8
Hebrew	he_IL.utf-8
Hungarian	hu_HU.utf8
Italian	it_IT.utf8
Japanese	ja_JP.utf8
Kazakh	kk_KZ.utf8
Korean	ko_KR.utf8
Norwegian	no_NO.utf8
Polish	pl_PL.utf8
Portuguese	pt_BR.utf8
Romanian	ro_RO.utf8
Russian	ru_RU.utf8
Slovakian	sk_SK.utf8
Slovenian	Sl_SI.utf8
Spanish	es_ES.utf8
Swedish	sv_SE.utf8
Simplified Chinese	zh_CN.utf8
Traditional Chinese	zh_TW.utf8
	zh_HK.utf8
Thai	th_TH.utf8
Turkish	tr_TR.utf8
Ukrainian	uk_UA.utf8



# Minimum HW Requirements - AIX

## Minimum Hardware Requirements

### For Evaluation Purposes:

CPU performance of at least 8000 SAPS

16 GB RAM minimum

### For Deployment & Sizing:

Please refer to the [BI4 Sizing Guide](#), or check out the [SAP BI Platform sizing & Deployment wiki](#) or your SAP representative.

•For more information on SAPS, see the SAP Sizing portal: <http://service.sap.com/sizing> and also the SAP benchmarked vendor hardware list:

<https://www.sap.com/about/benchmark.html>

•If deploying to virtualized hardware, it is strongly recommended that the memory and CPU(s) be reserved for each virtual machine that is running the BI services.

## Required Disk Space Requirements

### SAP BusinessObjects BI (server installer):

BI4.3 Patch Update : 13.5 GB

BI4.3 Full Installation : 37 GB

# Minimum OS Patch Requirements - AIX

## Minimum Patch Level for AIX 7.1

Required AIX 7.1 operating system install plus:

*Technology Level 5*

IBM C++ Runtime Environment Components for AIX => xIC.aix61.rte:13.1.3.1

## Minimum Patch Level for AIX 7.2

Required AIX 7.2 operating system install plus:

Technology Level 3

IBM C++ Runtime Environment Components for AIX => xIC.aix61.rte:13.1.3.1

**All OS versions:** Higher patches beyond the specified minimum patch level may be used, but they may not be officially tested by SAP.

# Supported Locales - AIX

Language	UNIX Locale
Arabic	AR_SA.UTF-8
Czech	CS_CZ.UTF-8
Danish	DA_DK.UTF-8
Dutch	NL_NL.UTF-8
English	EN_US.UTF-8
Finnish	FI_FI.UTF-8
French	FR_FR.UTF-8
German	DE_DE.UTF-8
Hebrew	he_IL.utf-8
Hungarian	HU_HU.UTF-8
Italian	IT_IT.UTF-8
Japanese	JA_JP.UTF-8
Korean	KO_KR.UTF-8
Kazakh	KK_KZ.UTF-8
Norwegian	NO_NO.UTF-8
Polish	PL_PL.UTF-8
Portuguese	PT_BR.UTF-8
Romanian	RO_RO.UTF-8
Russian	RU_RU.UTF-8
Slovakian	SK_SK.UTF-8
Slovenian	SL_SI.UTF-8
Spanish	ES_ES.UTF-8
Swedish	SV_SE.UTF-8
Simplified Chinese	ZH_CN.UTF-8
Traditional Chinese	ZH_TW.UTF-8
	ZH_HK.UTF-8
Thai	TH_TH.UTF-8
Turkish	TR_TR.UTF-8
Ukrainian	UK_UA.UTF-8

# Minimum HW and Patch Requirements - Solaris

## Minimum Server Hardware Requirements

### For Evaluation Purposes:

CPU performance of at least 8000 SAPS  
16 GB RAM minimum

### For Deployment & Sizing:

Please refer to the [BI4 Sizing Guide](#), or check out the [SAP BI Platform sizing & Deployment wiki](#) or your SAP representative.

•For more information on SAPS, see the SAP Sizing portal: <http://service.sap.com/sizing> and also the SAP benchmarked vendor hardware list: <https://www.sap.com/about/benchmark.html>

•If deploying to virtualized hardware, it is strongly recommended that the memory and CPU(s) be reserved for each virtual machine that is running the BI services.

## Minimum Patch Level for Solaris 11

Required Solaris 11 operating system install (Solaris 11.3 or 11.4)

Please refer to the BI Platform install guide for the list of required packages for Solaris 11

## Required Disk Space Requirements

### SAP BusinessObjects BI (server installer):

BI4.3 Patch Update : 13.5 GB

BI4.3 Full Installation : 37 GB

For a list of minimum patch requirements, refer to the following [link](#)

# Supported Locales - Solaris

Language	UNIX Locale
Arabic	ar_SA.UTF-8
Czech	cs_CZ.UTF-8
Danish	da_DK.UTF-8
Dutch	nl_NL.UTF-8
English	en_US.UTF-8
Finnish	fi_FI.UTF-8
French	fr_FR.UTF-8
German	de_DE.UTF-8
Hebrew	he_IL.utf-8
Hungarian	hu_HU.UTF-8
Italian	it_IT.UTF-8
Japanese	ja_JP.UTF-8
Korean	ko_KR.UTF-8@dict
Kazakh	kk_KZ.UTF-8
Norwegian	nb_NO.UTF-8
Polish	pl_PL.UTF-8
Portuguese	pt_BR.UTF-8
Romanian	ro_RO.UTF-8
Russian	ru_RU.UTF-8
Slovakian	sk_SK.UTF-8
Slovenian	sl_SI.UTF-8
Spanish	es_ES.UTF-8
Swedish	sv_SE.UTF-8
Simplified Chinese	zh_CN.UTF-8@pinyin
Traditional Chinese	zh_CN.UTF-8@radical
	zh_CN.UTF-8@stroke
Thai	zh_TW.UTF-8@pinyin
Turkish	tr_TR.UTF-8
Ukranian	uk_UA.UTF-8

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