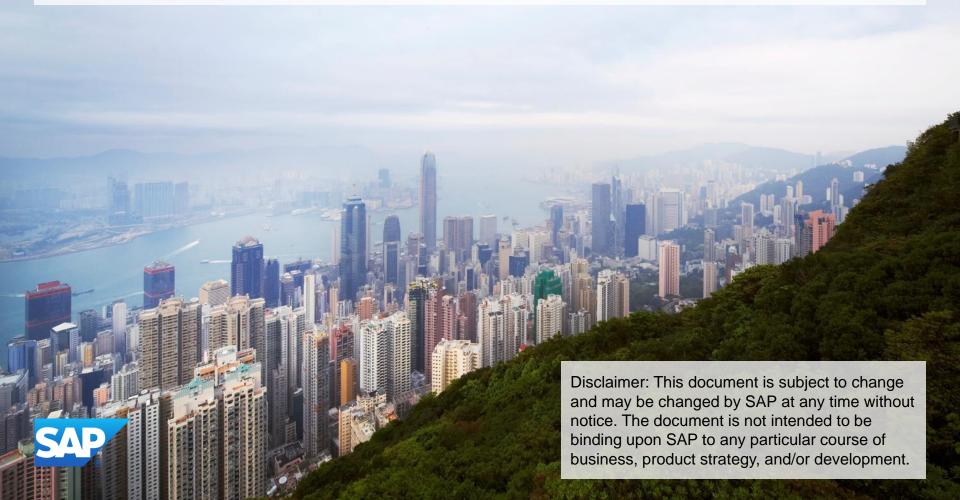# SAP BusinessObjects BI Platform 4.1
Supported Platforms (PAM)

Initial Publication: May 10, 2013
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Current Applicability: BI 4.1 RTM – BI 4.1 SP02

SAP

SAP BusinessObjects BI Platform 4.1
Table of Contents

Supported Platforms

Appendix

This document is also applicable to Edge BI 4.1 and Crystal Server 2013.

For Edge BI 4.1 and Crystal Server 2013:

- Only Windows and Linux operating systems are supported.

For Crystal Server 2013:

- The following components are not supported with Crystal Server 2013: Web Intelligence, Analysis, edition for OLAP, SAP BW integration.

How to read the tables in this document

A checkmark means supported with BI 4.1 and above	✓
SPX+ means supported with BI 4.1 SPX and above	SPX+
"-" means not supported	-

SAP BusinessObjects BI Platform 4.1
Server Components by Operating System

	Windows *(*1)*				Linux			AIX		Solaris	
	Server 2008 x64	Server 2008 R2 x64	Server 2012	Server 2012 R2	Suse SLES 11 x86_64	Red Hat EL 5 x86_64	Red Hat EL 6 x86_64	AIX 6 .1 Power	AIX 7.1 Power	Solaris 10 SPARC	Solaris 11 SPARC
64-bit BusinessObjects BI Server Products	SP2	SP1			*(*2)*	Upd. 3 *(*2)*	Upd. 2 *(*2)*	TL5	TL1 SP1		
SAP BusinessObjects BI platform	✓	✓	✓	SP02+ *(*6)*	✓	✓	✓	✓	✓	✓	✓
SAP BusinessObjects Analysis, edition for OLAP	✓	✓	✓	SP02+ *(*6)*	✓	✓	✓	✓	✓	✓	✓
SAP BusinessObjects Explorer	✓	✓	✓	SP02+ *(*6)*	✓	✓	✓	✓	✓	✓	✓
SAP BusinessObjects Web Intelligence	✓	✓	✓	SP02+ *(*6)*	✓	✓	✓	✓	✓	✓	✓
SAP Crystal Reports for Enterprise	✓	✓	✓	SP02+ *(*6)*	✓	✓	✓	✓	✓	✓	✓
SAP Crystal Reports 2013	✓	✓	✓	SP02+ *(*6)*	✓	✓	SP01+	✓	✓	✓	✓
SAP BusinessObjects Dashboards	✓	✓	✓	SP02+ *(*6)*	✓	✓	✓	✓	✓	✓	✓
Mobile Server *(*4)*	✓	✓	✓	SP02+ *(*6)*	✓	✓	✓	✓	✓	✓	- *(*5)*

- SAP BusinessObjects BI server components only support 64-bit operating systems. This is not a complete list of platform/connectivity services
- (*1) Data Center Edition, Enterprise Edition, Standard Edition, Web Edition.
- (*2) Minor versions of RHEL 5/6 and SPs of SLES 11 above the minimum supported versions listed on this slide are supported by reference.
- (*4) Operating systems support applies to both Mobile server (<MobileBIservice.war>) and Mobile OTA (<MobileOTA.war>) required for over-the-air download of the Mobile client onto the mobile devices.
- (*5) Mobile Server support for Solaris 11 is planned for a later SP.
- (*6) Windows Server 2012 R2 is supported for server components as of BI 4.1 SP02; however, **Internet Explorer 11 support is planned for a later SP**. Versions of Chrome and Firefox are supported on Windows Server 2012 R2 (see slide 7).

SAP BusinessObjects BI Platform 4.1
Desktop Clients and Operating System

	Windows Server				Windows Desktop			Mac
	Server 2008	Server 2008 R2	Server 2012	Server 2012 R2	Windows 7	Windows 8	Windows 8.1	Mac OS X 10.8
32-bit BusinessObjects BI Desktop Clients	SP2	SP1			SP1			
SAP BusinessObjects BI Client Tools	✓	✓	✓	SP02+ (*1)	✓	✓	SP02+ (*1)	-
SAP BusinessObjects Live Office	✓	✓	✓	SP02+ (*1)	✓	✓	SP02+ (*1)	-
SAP BusinessObjects Web Intelligence Rich Client	✓	✓	✓	SP02+ (*1)	✓	✓	SP02+ (*1)	-
SAP Crystal Reports for Enterprise	✓	✓	✓	SP02+ (*1)	✓	✓	SP02+ (*1)	-
SAP Crystal Reports 2013	✓	✓	✓	SP02+ (*1)	✓	✓	SP02+ (*1)	-
SAP Crystal Reports Viewer 2013	✓	✓	✓	SP02+ (*1)	✓	✓	SP02+ (*1)	✓
SAP Crystal Presentation Design 2013	✓	✓	✓	SP02+ (*1)	✓	✓	SP02+ (*1)	-
SAP BusinessObjects Dashboards	✓	✓	✓	SP02+ (*1)	✓	✓	SP02+ (*1)	-

BusinessObjects BI Desktop Clients are 32-bit and can be used in 64-bit operating systems.

Touch screen interactions are not supported.

(*1) Windows Server 2012 R2 and Windows 8.1 are supported for desktop clients as of BI 4.1 SP02; however, **Internet Explorer 11 support is planned for a later SP**. Versions of Chrome and Firefox are supported on Windows 8.1 and Server 2012 R2 (see slide 7).

SAP BusinessObjects BI Platform 4.1
Mobile Clients supported with this release

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

SAP BusinessObjects BI Platform 4.1
Language Support by Products

UI: The user interface for all BI 4.1 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	Arabic (***)
BusinessObjects BI Server Products	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Limited, see below
BusinessObjects BI Desktop Products	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Limited, see below

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

(***) Arabic Support
BI launch pad *(*2) (*3)*
BI workspaces (viewing only) *(*3)*
Crystal Reports Web Viewer *(*3)*
Web Intelligence -Web Intelligence Rich Internet Application (Java Applet) *(*3)* -Web Intelligence Rich Client
Analysis, edition for OLAP *(*3)*

• (*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.

SAP BusinessObjects BI Platform 4.1
Browser Support by Operating System

Web Browser	Java	Windows Server				Windows Desktop			Mac OS
		Server 2008 SP2 x64	Server 2008 R2 SP1 x64	Server 2012 X64	Server 2012 R2 (*8)	Windows 7 SP1	Windows 8 (*8)	Windows 8.1	Mac OS X 10.8
Microsoft IE 8(*1)	Oracle JRE 6(*5), 7	✓	✓	-	-	✓	-	-	-
Microsoft IE 9(*1)	Oracle JRE 6(*5), 7	✓	✓	-	-	✓	-	-	-
Microsoft IE 10 desktop version(*1)	Oracle JRE 6(*5), 7	-	✓	✓	-	✓	✓	-	-
Mozilla Firefox ESR 17.0.x(*2)(*6)(*7)	Oracle JRE 6(*5), 7	✓	✓	✓	-	✓	✓	-	-
Mozilla Firefox ESR 24.0.x(*2)(*6)	Oracle JRE 7	SP02+	SP02+	SP02+	SP02+	SP02+	SP02+	SP02+	-
Google Chrome(*3)	Oracle JRE 6(*5), 7	✓	✓	✓	✓	✓	✓	✓	-
Safari 6(*4)	Oracle JRE 7(*4)	-	-	-	-	-	-	-	✓ (*4)

Only 32-bit browsers are supported, except for Safari on OS X, which is only available as a 64-bit browser. In the case of IE10, this means "Enhanced Protected Mode" (64-bit content processes) is not supported; the IE 10 application itself (the "Manager" process) is always 64-bit on 64-bit systems and this is supported. Touch screen interactions are not supported.

- (*1) Internet Explorer Compatibility View is supported with BI 4.1 SP01+, except Analysis edition for OLAP does not support Compatibility View in IE10.
- (*2) For more information about Firefox Extended Support Releases (ESR): http://www.mozilla.org/en-US/firefox/organizations/faq/
- (*3) The current version of Google Chrome is supported based on testing with earlier versions of Chrome during development. Although SAP will work to maintain compatibility with Google Chrome, please be aware that issues may be introduced if and when Google makes significant changes to Chrome between rapid-releases.
- (*4) The Web Intelligence Java Applet (Rich Internet Application) is supported on Mac OS X with BI 4.1 SP01 and above. For details see SAP Note 1906633.
- (*5) Support for JRE 6 as a browser JRE is deprecated as of December 31, 2013.
- (*6) For information regarding browser support on Linux, please refer to SAP Note 1910135.
- (*7) Support for Firefox ESR 17 is deprecated as of December 3, 2013.
- (*8) **Support for Internet Explorer 11 is planned for a later SP**. As of BI 4.1 SP02, Chrome and Firefox are supported browser options on Windows 8.1 and Windows Server 2012 R2.

SAP BusinessObjects BI Platform 4.1
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 2-3 and explanations on how to read the table.

Application Server (*2)	Version	Java Version	Windows Server *Oracle/Sun JDK*	Linux *Oracle/Sun JDK*	AIX *IBM Java*	Solaris *Oracle/Sun JDK*
JBoss Application Server (*1)	7.1.1 (*1)	Java 6, Java 7	✓	✓	✓	✓
SAP NetWeaver Java Application Server	7.3, 7.31 SP4+	SAP JVM 6.1 (*3)	✓	✓	✓	✓
	7.40 SP2+	SAP JVM 6.1 (*3)	SP01+	SP01+	SP01+	SP01+
Apache Tomcat	6.0.20	Java 6, Java 7	✓	✓	✓	✓
	7.0	Java 6, Java 7 (*6)	✓	✓	✓	✓
Oracle WebLogic Server	10.3.5	Java 6	✓	✓	✓	✓
		JRockit 6.0	✓	✓	-	✓
	10.3.6	Java 6, Java 7	✓	✓	✓	✓
		JRockit 6.0	✓	✓	-	✓
IBM WebSphere Application Server	7.0.0.11	Java 6 (*2)	✓	✓	✓	✓
	8.5 (*4) (*5)	Java 6, Java 7 (*2)	✓	✓	✓	✓
	8.5.5 (*4) (*5)	Java 6, Java 7 (*2)	SP02+	SP02+	SP02+	SP02+

(*1) JBoss Application Server 7.1.1 is supported for pre-deploy only and is not visible as an option in the Wdeploy GUI.
(*2 - *3) See next page.
(*4) Support for the WebSphere On Demand Router is described in SAP Note 1869511.
(*5) The WAS Liberty Profile is not supported.
(*6) Apache Tomcat 7 is also supported with SAP JVM 6.1 on all supported operating systems.

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

SAP BusinessObjects BI Platform 4.1
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 6, and the operating system notes that it is a Oracle JDK, it means that this is Oracle JDK 6 release. Similar for IBM Java.

	Oracle/Sun JDK	IBM Java
Java 6	Oracle JDK 6	IBM Java 6
Java 7	Oracle JDK 7	IBM Java 7

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

- (*2) IBM WebSphere is supported with IBM Java SDK when applicable

- (*3) SAP NetWeaver is supported with SAP JVM on all supported operating systems

SAP BusinessObjects BI Platform 4.1
IIS Support by Operating System (IOMS only)

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

Application Server	Version	Windows Server 2008	Windows Server 2008 R2
IIS	7	✓	-
	7.5	-	✓

SAP BusinessObjects BI Platform 4.1
Portal Server Support by Operating System

Portal Server	Version	Windows Server	Linux	AIX	Solaris
SAP Netweaver Enterprise Portal	7.0	✔	✔	✔	✔
	7.3	✔	✔	✔	✔
	7.31 SP4+	✔	✔	✔	✔
	7.40 SP2+	SP01+	SP01+	SP01+	SP01+
Oracle WebLogic Portal	10.3.4	✔	✔	✔	✔
	10.3.5	✔	✔	✔	✔
IBM Websphere Portal	7.0	✔	✔	✔	✔
	8.0	✔	✔	✔	✔
Microsoft SharePoint *(*1) (*2)*	2007	✔	-	-	-
	2010	✔	-	-	-

- (*1) Integration option for Microsoft SharePoint only
- (*2) .NET 3.5 SP1

SAP BusinessObjects BI Platform 4.1
CMS + Audit Repository Support by Operating System

			Windows Server	Linux	AIX	Solaris
(*5) Only 64-bit database connector middleware is supported						
Provider Name	Version	Database Connector *(*5)*				
IBM DB2 for Linux, UNIX, and Windows *(*5)*	9.7	DB2 Client 9.7	✓	✓	✓	*(*6)*
	10.1	DB2 Client 10.1	✓	✓	✓	*(*6)*
	10.5	DB2 Client 10.5	✓	✓	✓	*(*6)*
IBM DB2 Workgroup Edition	9.7	DB2 Client 9.7	✓	✓	✓	*(*6)*
Microsoft SQL Server	2008 SP2+	Microsoft ODBC driver for SQL Server (WDAC 6)	✓	-	-	-
	2008 R2	Microsoft ODBC driver for SQL Server (WDAC 6)	✓	-	-	-
	2012	Microsoft SQL Server Native Client 11	✓	-	-	-
Microsoft SQL Server Express	2008	Microsoft ODBC MDAC 2.8	✓	-	-	-
MySQL AB	5.1	MySQL C-API	✓	✓	✓	*(*7)*
Oracle *(*3)*	11gR1	Oracle Net Client 11g R1	✓	✓	✓	✓
	11gR2	Oracle Net Client 11g R2	✓	✓	✓	✓
SAP HANA *(*4)*	SPS05		✓	✓	*(*8)*	✓
	SPS06		SP01+	SP01+	SP01+	SP01+
	SPS07		SP02+	SP02+	SP02+	SP02+
SAP MaxDB	7.7	MaxDB ODBC 7.7 (7.7.07.20+)	✓	✓	✓	✓
Sybase Adaptive Server Enterprise	15.5	Sybase Open Client 15.5	✓	✓	✓	✓
	15.7	Sybase Open Client 15.7	✓	✓	✓	✓
Sybase SQL Anywhere *(*1)*	12.0.1	Sybase SQL Anywhere ODBC Driver 12.0.1	✓	✓	✓	✓

- (*1) Bundled on all supported platforms.
- (*3) Oracle Real Application Cluster is supported.
- (*4) To use SAP HANA as a CMS/Audit repository you must select the default database during installation, then export the data to the target database. For details, please refer to the BI platform Administrator's Guide.
- (*5) IBM DB2 for LUW v9.7 support requires fixpak 1 (or newer). HADR is supported with DB2 for LUW v9.7 and v10.1.
- (*6) IBM DB2 is not supported with Solaris 11.
- (*7) MySQL AB 5.1 is not supported with Solaris 11.
- (*8) HANA on AIX support requires at least HANA Revision 57.

SAP BusinessObjects BI Platform 4.1
Directory Server (LDAP) Support by Operating System

Directory Server (LDAP)	Windows	Linux	AIX	Solaris
IBM Tivoli Directory Server 6.2	✓	✓	✓	✓
IBM Tivoli Directory Server 6.3	✓	✓	✓	✓
Microsoft Active Directory 2008	✓	✓	✓	✓
Microsoft Active Directory 2008 R2	✓	✓	✓	✓
Microsoft Active Directory 2012	✓	✓	✓	✓
Novell eDirectory 8.8	✓	✓	✓	✓
Oracle Internet Directory 10gR3	✓	✓	✓	✓
Oracle Internet Directory 11gR1 and 11gR2[*1]	✓	✓	✓	✓
Sun Java System Directory Server Enterprise 6.3	✓	✓	✓	✓

- (*1) Oracle Internet Directory 11gR2 is supported by reference to 11gR1

SAP BusinessObjects BI Platform 4.1
Other Technology Support by Operating System [1/2]

Technology	Technology Version	Windows	Mac OS
Adobe Reader	Adobe Reader 10	✓	✓
	Adobe Reader 11	SP01+	SP01+
Adobe Flash Player	Adobe Flash Player 11	✓	✓
Microsoft Office (*1) (*2)	Microsoft Office 2007 SP3+	✓	-
	Microsoft Office 2010 SP1+	✓	-
	Microsoft Office 2013	✓	-

- (*1) Only 32-bit versions of Microsoft Office are supported
- (*2) SPs of Microsoft Office that are higher than the minimum listed SPs are supported by reference

SAP BusinessObjects BI Platform 4.1
Other Technology Support by Operating System [2/2]

Technology	Technology Version	Windows	Linux	AIX	Solaris
Microsoft Active Directory	Microsoft Active Directory 2008 (including LDS support)	✓	-	-	-
	Microsoft Active Directory 2008 R2 (including LDS support)	✓	-	-	-
	Microsoft Active Directory 2012 (including LDS support)	✓	-	-	-
Microsoft .NET Framework	.NET Framework 3.5 SP1	✓	-	-	-
	.NET Framework 4.0 *(*1)*	✓	-	-	-
	.NET Framework 4.5	✓	-	-	-
Computer Associates Access Management	eTrust Siteminder 12.0	✓	✓	✓	✓
SAP GUI	SAP GUI 7.30	✓	-	-	-

• *(*1)* Compatible support with respect to .NET 3.5 SP1

Reverse Proxy
Apache HTTP Server 2.2 and 2.4 *(*2)*
WebSEAL 6
Microsoft Internet Security and Acceleration (ISA) Server 2006 *(*1)*

*(*1)* Not supported for Mobile Server   *(*2)* Apache HTTP Server 2.4 is supported with BI 4.1 SP01 and above

SAP BusinessObjects BI Platform 4.1
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:

		Windows
Desktop Virtualization		
Citrix	XenApp 6.0 and 6.5[*1] [Windows Server 2008 R2]	✓
	XenApp 5.0 [Windows Server 2008]	✓
Microsoft	Remote Desktop Services	✓

- *(*1)* XenApp 6.5 is supported by reference to XenApp 6.0

SAP BusinessObjects BI Platform 4.1
SAP BusinessObjects Analysis, edition for OLAP
OLAP Server Support by Operating System

Provider Name	Version	Connectivity	Windows	AIX	Linux	Solaris
SAP BW	See SAP BW slide	BICS	✓	✓	✓	✓
Microsoft SQL Server Analysis Services	2008	XMLA	✓	✓	✓	✓
	2012	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 *(*1)*	v14.10	XMLA	✓	✓	✓	✓
Oracle Essbase	v11	JAPI	✓	✓	✓	✓

- *(*1)* Direct connectivity to Teradata will be supported when Teradata makes XMLA connectivity generally available.

SAP BusinessObjects BI Platform 4.1
SAP BW Minimum version per product - overview

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+
Web Intelligence	BICS (Dimensional Transient Universe)	✓	✓	✓	✓	✓	SP01+
Crystal Reports for Enterprise		✓	✓	✓	✓	✓	SP01+
Dashboards		✓	✓	✓	✓	✓	SP01+
Web Intelligence	UNV OLAP	✓	✓	✓	✓	✓	SP01+
Live Office		✓	✓	✓	✓	✓	SP01+
Web Intelligence	Multi source universe (Relational)	✓	✓	✓	✓	✓	SP01+
Crystal Reports Enterprise		✓	✓	✓	✓	✓	SP01+
Dashboards		✓	✓	✓	✓	✓	SP01+
Explorer		✓	✓	✓	✓	✓	SP01+
Analysis, edition for OLAP (*1)	BICS (Direct to BEx)	✓	✓	✓	✓	✓	SP01+
Analysis, edition for Microsoft Office (*2)		(*5)	(*5)	(*5)	(*5)	(*5)	(*5)
Dashboards	BICS (NW BI Java)	✓	✓	✓	✓	✓	SP01+
Explorer	BWA (*4)	✓	✓	✓	✓	✓	SP01+
Crystal Reports for Enterprise	Direct to Data (D2D)	-	-	-	-	-	-
Crystal Reports 2013	Direct BW Connection	✓	✓	✓	✓	✓	SP01+
BEx Web Applications (*3)	(Integrated with BI 4)	-	✓	✓	✓	✓	SP01+

- (*1) Analysis, edition for OLAP additionally supports BW 7.0 SPS23+
- (*2) Analysis, edition for Microsoft Office standalone (not used with BI 4) supports any BW release as of 7.0 (no specific SP needed)
- (*3) Please consult SAP notes 1541365 and 1476156
- (*4) Explorer supports BWA Version 7.20, rev 19 and above
- (*5) Please refer to the Analysis, edition for MSFT Office PAM for details

SAP BusinessObjects BI Platform 4.1
SAP HANA Support per product - overview

Product	Connectivity	HANA SPS05	HANA SPS06	HANA SPS07
Web Intelligence	UNX (Relational Universe)	✓	SP01+	SP02+
Crystal Reports for Enterprise		✓	SP01+	SP02+
Dashboards		✓	SP01+	SP02+
Analysis Edition for OLAP	Direct Connection (BICS)	✓	SP01+	SP02+
Analysis, Edition for Microsoft Office		(*1)	(*1)	SP02+
Explorer	Direct Connection (JDBC) UNX (Relational Universe)	✓	SP01+	SP02+
Crystal Reports 2013	Direct Connection	✓	SP01+	SP02+
Crystal Reports for Enterprise	Direct to Data	✓	SP01+	SP02+

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

SAP BusinessObjects BI Platform 4.1
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 RTC Data Access*
- Notes:
- Crystal Reports is offered as a 32-bit native binary. It requires 32-bit data source middleware connectivity on all operating systems.
- Crystal Reports uses the 32-bit ODBC registry on all versions of Windows. To administer 32-bit ODBC DSNs on 64-bit versions of Windows, run the 32-bit ODBC Administrator, located here: C:\Windows\SysWOW64\odbcad32.exe

Crystal Reports 2013 – Enterprise Data Sources

- Please consult the file *CR 2013 RTC Data Access*
- Notes:
- Cristal Reports is offered as a 32-bit native binary. It requires 32-bit data source middleware connectivity on all operating systems.
- Crystal Reports uses the 32-bit ODBC registry on all versions of Windows. To administer 32-bit ODBC DSNs on 64-bit versions of Windows, run the 32-bit ODBC Administrator, located here: C:\Windows\SysWOW64\odbcad32.exe

SAP BusinessObjects BI Platform 4.1
Data Services and Information Steward

Please refer to **SAP note 1740516** for information regarding the compatibility of Data Services and Information Steward.

Appendix

SAP BusinessObjects BI Platform 4.1
Minimum HW 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
For Deployment:
Please refer to the BI4 Sizing Companion Guide, located at www.sap.com/bisizing and also 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: http://www1.sap.com/solutions/benchmark/sd2tier.epx
- 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

Recommended Disk Space Requirements
SAP BusinessObjects BI (client installer):
- 3.5 GB for default installation with English language only installed
- 7.5 GB for default installation with all languages installed
SAP BusinessObjects BI (server installer):
- 11 GB for default installation with English language only installed
- 14 GB for default installation with all languages installed

SAP BusinessObjects BI Platform 4.1
Minimum HW Requirements - Linux

Minimum Server Hardware Requirements

For Evaluation Purposes:

CPU performance of at least 8000 SAPS

16 GB RAM minimum

For Deployment:

Please refer to the BI4 Sizing Companion Guide, located at www.sap.com/bisizing and also 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: http://www1.sap.com/solutions/benchmark/sd2tier.epx
- 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.

Recommended Disk Space Requirements

SAP BusinessObjects BI (server installer):

- 14 GB for default installation with English language only installed
- 16 GB for default installation with all languages installed

SAP BusinessObjects BI Platform 4.1
Minimum OS Patch Requirements - Linux

Minimum Patch Level for SUSE Linux Enterprise Server 11
No additional components required outside the SLES 11 RTM install.

Minimum Patch Level for Red Hat Enterprise Linux 5
Required Red Hat 5 operating system install plus:
Red Hat Enterprise Linux 5 Update 3

Minimum Patch Level for Red Hat Enterprise Linux 6
Required Red Hat 6 operating system install plus:
Red Hat Enterprise Linux 6 Update 2

Required components for Red Hat Enterprise Linux 6
glibc-2.12-1.7-el6.i686 and libstdc++-4.4.4-13.el6.i686

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

SAP BusinessObjects BI Platform 4.1
Supported Locales - Linux

Language	UNIX Locale
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
Hungarian	hu_HU.utf8
Italian	it_IT.utf8
Japanese	ja_JP.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

SAP BusinessObjects BI Platform 4.1
Minimum HW Requirements - AIX

Minimum Hardware Requirements

For Evaluation Purposes:

CPU performance of at least 8000 SAPS

16 GB RAM minimum

For Deployment:

Please refer to the BI4 Sizing Companion Guide, located at www.sap.com/bisizing and also 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: http://www1.sap.com/solutions/benchmark/sd2tier.epx
- 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.

Recommended Disk Space Requirements

SAP BusinessObjects BI (server installer):

- 13 GB for default installation with English language only installed
- 15 GB for default installation with all languages installed

SAP BusinessObjects BI Platform 4.1
Minimum OS Patch Requirements - AIX

Minimum Patch Level for AIX 6.1
Required AIX 6.1 operating system install plus:
Technology Level 5
IBM C++ Runtime Environnement Components for AIX => xlC.aix61.rte 10.1.0.3

Minimum Patch Level for AIX 7.1
Required AIX 7.1 operating system install plus:
Technology Level 1 SP2
IBM C++ Runtime Environnement Components for AIX => xlC.aix61.rte 11.1.0.2

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

SAP BusinessObjects BI Platform 4.1
Supported Locales - AIX

Language	UNIX Locale
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
Hungarian	HU_HU.UTF-8
Italian	IT_IT.UTF-8
Japanese	JA_JP.UTF-8
Korean	KO_KR.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

SAP BusinessObjects BI Platform 4.1
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:

Please refer to the BI4 Sizing Companion Guide, located at www.sap.com/bisizing and also 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: http://www1.sap.com/solutions/benchmark/sd2tier.epx
- 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 10

Required Solaris 10 operating system install (Solaris 10 8/2007 release).

No additional components required.

Higher patches beyond the specified minimum patch requirement may be used.

Minimum Patch Level for Solaris 11

Required Solaris 11 operating system install (Solaris 11 11/11)

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

Recommended Disk Space Requirements

SAP BusinessObjects BI (server installer):

- 13 GB for default installation with English language only installed
- 15 GB for default installation with all languages installed

SAP BusinessObjects BI Platform 4.1
Supported Locales - Solaris

Language	UNIX Locale
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
Hungarian	hu_HU.UTF-8
Italian	it_IT.UTF-8
Japanese	ja_JP.UTF-8
Korean	ko_KR.UTF-8@dict
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	zh_TW.UTF-8@radical

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