SAP BusinessObjects BI Platform 4.2
Supported Platforms (PAM)

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SAP BusinessObjects BI Platform 4.2
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Supported Platforms

Appendix

This document is also applicable to Edge BI 4.2 and Crystal Server 2016.

For Edge BI 4.2 and Crystal Server 2016:

- Only Windows and Linux operating systems are supported.

For Crystal Server 2016:

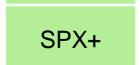- The following components are not supported with Crystal Server 2016: Web Intelligence, Analysis, edition for OLAP, SAP BW integration.

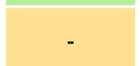**For BI 4.2 Maintenance Strategy document: <u>click here</u>**

How to read the tables in this document

A checkmark means supported with BI 4.2 and above	✓
SPX+ means supported with BI 4.2 SPX and above	SPX+
"-" means not supported	-

SAP BusinessObjects BI Platform 4.2
Server Components by Operating System(*7)

	Windows (*1)				Linux					AIX			Solaris(*8)	
	Server 2008 R2 SP1 x64	Server 2012	Server 2012 R2	Server 2016	Suse SLES 11 x86_64	Suse SLES 12 x86_64	Red Hat EL 6 x86_64	Red Hat EL 7 x86_64	Oracle Linux 7.2 (RHCK) (UEK)	AIX 6 .1 Power (*4)	AIX 7.1 Power	AIX 7.2	Solaris 10 SPARC	Solaris 11 SPARC
64-bit BusinessObjects BI Server Products	SP1(*5)	(*5)	(*5)		(*2)	(*2)	(*2)	(*2) (*6)		TL5	TL1 SP1			
SAP BusinessObjects BI platform	✓	✓	✓	SP03+	✓	✓	✓	✓	SP04+	✓	✓	SP04+	✓	✓
SAP BusinessObjects Analysis, edition for OLAP	✓	✓	✓	SP03+	✓	✓	✓	✓	SP04+	✓	✓	SP04+	✓	✓
SAP BusinessObjects Explorer	✓	✓	✓	SP03+	✓	✓	✓	✓	SP04+	✓	✓	SP04+	✓	✓
SAP BusinessObjects Web Intelligence	✓	✓	✓	SP03+	✓	✓	✓	✓	SP04+	✓	✓	SP04+	✓	✓
SAP Crystal Reports for Enterprise	✓	✓	✓	SP03+	✓	✓	✓	✓	SP04+	✓	✓	SP04+	✓	✓
SAP Crystal Reports 2016	✓	✓	✓	SP03+	✓	✓	✓	✓	SP04+	✓(*3)	✓(*3)	SP04+	✓	✓
SAP BusinessObjects Dashboards	✓	✓	✓	SP03+	✓	✓	✓	✓	SP04+	✓	✓	SP04+	✓	✓
Mobile Server	✓	✓	✓	SP03+	✓	✓	✓	✓	SP04+	✓	✓	SP04+	✓	✓

SAP BusinessObjects BI server components only support 64-bit operating systems. This is not a complete list of platform/connectivity services
For supported BI Platform Add-On versions information for the SAP BusinessObjects BI 4.2 SP04 release. Please refer SAP Note 2467541 for details.

(*1) Data Center Edition, Enterprise Edition, Standard Edition, Web Edition. *(As Applicable)*
(*2) Minor versions of RHEL 6 and SPs of SLES 11 /12 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 requirements for Linux.
(*3) If using IBM XL C++ Runtime 13 on AIX, minimum patch to 13.1.3.1, see SAP Note 2313172 for detail.
(*4) End of support for AIX 6.1 is on 30/04/2017. Please refer vendor's documentation for more information.
(*5) Windows Updates needed for Successful Installation of / Update to SAP BusinessObjects BI Platform 4.2 SP04 and above. Please refer SAP Note 2451830 for details.
(*6) RHEL 7 and 7.1 are supported BI 4.2 SP02+. RHEL 7.2 from BI4.2 SP04+. RHEL 7.3, 7.4 from 4.2 SP05+
(*7) Installation of "Automation Framework" feature and also the BI Agent available in collateral folder are only supported on Windows and Linux platforms, but the we can register the BI Landscapes installed on all supported platforms (which are of BI 4.2 SP03 & BI 4.2 SP04 versions) as Landscape object in the Landscape Management and also target them for the BI Automation tasks in the Automation Framework
(*8) Please refer SAP note 2564021 on details of libraries required

SAP BusinessObjects BI Platform 4.2
Desktop Clients and Operating System

	Windows Server				Windows Desktop				Mac			
	Server 2008 R2 SP1	Server 2012	Server 2012 R2	Server 2016	Windows 7 SP1	Windows 8	Windows 8.1	Windows 10	Mac OS X 10.9	Mac OS X 10.10	Mac OS X 10.11	Mac OS Sierra
32-bit BusinessObjects BI Desktop Clients	SP1(*2)	(*2)	(*2)		SP1(*2)	(*2)	(*2)					
SAP BusinessObjects BI Client Tools	✓	✓	✓	SP03+	✓	✓	✓	✓	-	-	-	-
SAP BusinessObjects Live Office	✓	✓	✓	SP03+	✓	✓	✓	✓	-	-	-	-
SAP BusinessObjects Web Intelligence Rich Client	✓	✓	✓	SP03+	✓	✓	✓	✓	-	-	-	-
SAP Crystal Reports for Enterprise	✓	✓	✓	SP03+	✓	✓	✓	✓	-	-	-	-
SAP Crystal Reports 2016	✓	✓	✓	SP03+	✓	✓	✓	✓	-	-	-	-
SAP Crystal Reports Viewer 2016	✓	✓	✓	SP03+	✓	✓	✓	✓	✓	✓	SP03+	SP04+
SAP Crystal Presentation Design 2016	✓	✓	✓	SP03+	✓	✓	✓	✓	-	-	-	-
SAP BusinessObjects Dashboards(*1)	✓	✓	✓	SP03+	✓	✓	✓	✓	-	-	-	-

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

Touch screen interactions are not supported.

(*1) Important note about viewing Dashboards in BI Widgets under Windows 8.x: Please refer SAP Note 1895395 for details

(*2) Windows Updates needed for Successful Installation of / Update to SAP BusinessObjects BI Platform 4.2 SP04 and above. Please refer SAP Note 2451830 for details

SAP BusinessObjects BI Platform 4.2
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.

SAP BusinessObjects BI Platform 4.2
Language Support by Products

UI: The user interface for all BI 4.2 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	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Limited, see below SP03+	Limited, see below SP03+	Limited, see below	Limited, see below
BusinessObjects BI Desktop Products	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Limited, see below SP03+	Limited, see below SP03+	Limited, see below	Limited, see below

(***) 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 (Java Applet) *(*3)* -Web Intelligence Rich Client
Analysis, edition for OLAP *(*3)*

- BI Administration Console Web Application is supported on only English Language
- Arabic and Hebrew (RTL) are not supported for Fiori BI Launchpad

(*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.

SAP BusinessObjects BI Platform 4.2
Browser Support by Operating System

Web Browser	Java	Windows Server					Windows Desktop			Mac OS			
		Server 2008 SP2 x64 SP1	Server 2008 R2 SP1 x64	Server 2012 X64	Server 2012 R2	Server 2016	Windows 7 SP1	Windows 8.1	Windows 10	Mac OS X 10.9	Mac OS X 10.10	Mac OS X 10.11	Mac OS Sierra
Microsoft IE 10 desktop version[*1] [*8]	Oracle JRE 7, 8[*6]	-	-	✓	-	-	-	-	-	-	-	-	-
Microsoft IE 11 desktop version[*1] [*8] [*10]	Oracle JRE 7, 8[*6]	-	✓	-	✓ [*11]	SP04+	✓	✓	✓ [*11]	-	-	-	-
Microsoft EdgeHTML 14.14393	Oracle JRE 7, 8[*6]	-	-	-	-	-	-	-	SP04+[*11]	-	-	-	-
Microsoft EdgeHTML 15.15063	Oracle JRE 7, 8[*6]	-	-	-	-	-	-	-	SP05+[*11]	-	-	-	-
Mozilla Firefox ESR 45.x[*2] [*5][*9][*12]	Oracle JRE 7, 8[*6]	✓	✓	✓	✓ [*11]	SP04+	✓	✓	✓ [*11]	-	-	-	-
Mozilla Firefox ESR 52.X[*2] [*5][*9][*12]	Oracle JRE 7, 8[*6]	SP05+	SP05+	SP05+	SP05+[*11]	SP05+	SP05+	SP05+	SP05+	-	-	-	-
Google Chrome[*3][*7]	Oracle JRE 7, 8[*6]	✓	✓	✓	✓ [*11]	SP04+	✓	✓	✓ [*11]	-	-	-	-
Safari 7[*4]	Oracle JRE 7[*4], 8[*6]	-	-	-	-	-	-	-	-	✓	-	-	-
Safari 8[*4]	Oracle JRE 7[*4], 8[*6]	-	-	-	-	-	-	-	-	-	✓	-	-
Safari 9[*4]	Oracle JRE 7[*4], 8[*6]	-	-	-	-	-	-	-	-	-	-	SP03+	-
Safari 10[*4]	Oracle JRE 7[*4], 8[*6]	-	-	-	-	-	-	-	-	-	-	-	SP04+

- BI Administration Console Web Application is supported on Microsoft Edge, Internet Explorer 11 & Google Chrome.
- 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 and IE11, this "Enhanced Protected Mode" (64-bit content processes) is supported; the IE 10 application itself (the "Manager" process) is always 64-bit on 64-bit systems and this is supported. Known limitations of Crystal Reports viewer run in IE with Enhanced Protected Mode please refer SAP Note 2308908. Touch screen interactions are not supported.

(*1) Analysis edition for OLAP and BI LaunchPad on SAP NW Portal (SAPNote 2056982) do not support Compatibility View in IE10 or IE11] [KBA: 2106260 - In IE11 can't select a cascaded prompt value SAPBI WEBI]
(*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. For details see SAP Note 1906633.
(*5) For information regarding limited browser support on Linux, please refer to SAP Note 1910135.
(*6) Crystal Reports Java Applet viewer will be deprecated soon, also note it will not launch in Chrome version 45 onwards due to removal of NPAPI support in Chrome. Use the Crystal Reports DHTML ("Web") viewer instead.
(*7) From Chrome version 45 onwards, NPAPI is not supported, Web Intelligence Java Applet will not launch, refer to SAP Note 2196748 and 2156305 for details.
(*8) Beginning January 12, 2016, Microsoft will support the most current version of Internet Explorer available for a supported operating system. Only the current version of IE will receive technical supports and security updates. Please refer SAP KBA
(*9) From Firefox version 52 onwards, NPAPI is not supported. Oracle Java Runtime Environment is no longer supported in Firefox. Refer KBA 2439342.
(*10) Limitations with respect to IE 11 please refer to SAP Note 1903267.
(*11) Fiori like launchpad supported only in SP's referenced by point *11
(*12) Webi FIORI not tested with Firefox

SAP BusinessObjects BI Platform 4.2
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.

Application Server (*2)	Version	Java Version	Windows Server *Oracle/Sun JDK*	Linux *Oracle/Sun JDK*	AIX *IBM Java*	Solaris *Oracle/Sun JDK*
SAP NetWeaver Java Application Server (*10)	7.3, 7.31 SP4+	SAP JVM 6.1 (*2)	✓	✓	✓	✓
	7.40 SP2+	SAP JVM 6.1 (*2)	✓ (*8)	✓ (*9)	✓ (*9)	✓ (*8)
	7.50 SP3+	SAP JVM 8 (*2)	SP03+ (*9)	SP03+ (*9)	SP03+ (*9)	SP03+ (*9)
	7.50 SP5+	SAP JVM 8 (*2)	SP04+ (*9)	SP04+ (*9)	SP04+ (*9)	SP04+ (*9)
	7.50 SP10+	SAP JVM 8 (*2)	SP05+ (*9)	SP05+ (*9)	SP05+ (*9)	SP05+ (*9)
Apache Tomcat (*6)	7.0(*8)	Java 7, Java 8, SAP JVM 8	✓	✓	✓	✓
	8.0(*8)	Java 7, Java 8, SAP JVM 8	✓	✓	✓	✓
	8.5	Java 7, Java 8, SAP JVM 8	SP04+	SP04+	SP04+	SP04+
	9.0	Java 7, Java 8, SAP JVM 8	SP05+	SP05+	SP05+	SP05+
Oracle WebLogic Server(*7)	10.3.6	Java 7	✓ (*9)	✓ (*8)	✓ (*9)	✓ (*7)
IBM WebSphere Application Server (*3) (*4)	8.5	Java 7 (*1)	✓ (*9)	✓ (*9)	✓ (*8)	✓ (*9)
	8.5.5	Java 7 (*1)	✓ (*9)	✓ (*9)	✓ (*8)	✓ (*9)
	8.5	Java 7 (*1)	SP05+	SP05+	SP05+	SP05+
JBoss EAP(*5)	6.4(*8)	Java 8	✓	✓	-	✓
	7.0	Java 8	SP04+	SP04+	SP04+	SP04+

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

(*1 - *2) See next page.
(*3) Support for the WebSphere On Demand Router is described in SAP Note 1869511.
(*4) The WAS Liberty Profile is not supported.
(*5) To use JBOSS with Mobile Server refer SAP Note 2207211. BOE 4.x SOAP Web Services (dswsbobje) deployment on JBoss Application Server refer SCN.
(*6) 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).
(*7) Oracle weblogic server 10.3.x has reached end of life. Please refer vendor's documentation for more information. Oracle Weblogic 12c is not supported
(*8) Supported by Fiori like launchpad
(*9) Supported by Fiori like launchpad (By Reference)
(*10) BI Administration Console Web Application deployment is only supported on default bundled tomcat and SAP NetWeaver 7.5 SP05, with the default deployment options, and any custom configurations to these application servers also not supported with BI Administration Console

SAP BusinessObjects BI Platform 4.2
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 7	Oracle JDK 7	IBM Java 7
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

SAP BusinessObjects BI Platform 4.2
IIS Support by Operating System (IOMS only)

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

Application Server	Version	Windows Server 2008 R2	Windows Server 2012	Windows Server 2012 R2
IIS(*1)	7.5	✓	-	-
	8	-	✓	-
	8.5	-	-	✓

(*1) IIS is not supported on Windows server 2016

SAP BusinessObjects BI Platform 4.2
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+	✓	✓	✓	✓
	7.50 SP3+	SP03+	SP03+	SP03+	SP03+
	7.50 SP5+	SP04+	SP04+	SP04+	SP04+
	7.50 SP10+	SP05+	SP05+	SP05+	SP05+
Oracle WebLogic Portal *(*4)*	10.3.4	✓	✓	✓	✓
	10.3.5	✓	✓	✓	✓
	10.3.6	✓	✓	✓	✓
	10.3.7	SP04+	SP04+	SP04+	SP04+
IBM Websphere Portal *(*3)*	7.0 *(*3)*	✓	✓	✓	✓
	8.0	✓	✓	✓	✓
	8.5	SP04+	SP04+	SP04+	SP04+
	9.0	SP05+	SP05+	SP05+	SP05+
Microsoft SharePoint *(*1)*	2010 *(*2)*	✓	-	-	-
	2013	✓	-	-	-

(*1) Integration option for Microsoft SharePoint only

(*2) .NET 3.5 SP1

(*3) IBM Websphere Portal 7.0 has reached end of life. Please refer vendor's documentation for more information.

(*4) Weblogic 12C is not supported

SAP BusinessObjects BI Platform 4.2
CMS + Audit Repository Support by Operating System

Only 64-bit database connector middleware is supported

Provider Name	Version	Database Connector (*3)	Windows Server[8]	Linux[8]	AIX[8]	Solaris[8]
IBM DB2 for Linux, UNIX, and Windows (*4)	9.7[12]	DB2 Client 9.7	✓	✓	✓	(*5)
	10.1	DB2 Client 10.1	✓	✓	✓	(*5)
	10.5	DB2 Client 10.5	✓	✓	✓	(*5)
	11.1	DB2 Client 11.1	SP04+	SP04+	SP04+	(*5)
IBM DB2 Workgroup Edition	9.7	DB2 Client 9.7	✓	✓	✓	(*5)
	10.5	DB2 Client 10.5	✓	✓	✓	(*5)
Microsoft SQL Server	2008 R2 SP1	Microsoft ODBC driver for SQL Server (WDAC 6)	✓	-	-	-
	2012	Microsoft SQL Server Native Client 11	✓	-	-	-
	2014	Microsoft SQL Server Native Client 11	✓	-	-	-
	2016	Microsoft SQL Server Native Client 11	SP04+	-	-	-
MySQL AB	5.6	MySQL C-API	✓	✓	✓	(*6)
	5.7.19	MySQL C-API	SP05+	SP05+	SP05+	(*6)
MaxDB	(7.9.08.40)		SP04+	SP04+	SP04+	SP04+
Oracle (*2)	11gR1[9]	Oracle Net Client 11g R1	✓	✓	✓	✓
	11gR2	Oracle Net Client 11g R2	✓	✓	✓	✓
	12c[11]	Oracle Net Client 12c	✓	✓	✓	✓
	12c R2	Oracle Net Client 12c	SP05+	SP05+	SP05+	SP05+

(*1) Bundled on all supported platforms.
(*2) Oracle Real Application Cluster is supported.
(*4) IBM DB2 for LUW v9.7 support requires fixpack 1 (or newer). HADR is supported with DB2 for LUW v9.7 and v10.1.
(*5) IBM DB2 is not supported with Solaris 11.
(*6) MySQL AB is not supported with Solaris 11.

(*7) Use HANA Revision 92 and above for SPS09. Refer SAP Note 2021789 for   HANA revision details.
(*8) Operating system on which the BI platform is installed.
(*9) Oracle11gR1 has reached end of life Please refer vendor's documentation for more information.
(*10) Sybase Adaptive Server Enterprise 15.5 has reached end of life. Please refer vendor's documentation
(*11) Oracle 12.1.0.2 is supported from SP04+
(*12) IBM DB2 9.7 has reached end of life. Please refer vendor documentation for more details

SAP BusinessObjects BI Platform 4.2
CMS + Audit Repository Support by Operating System

(*3) Only 64-bit database connector middleware is supported

Provider Name	Version	Database Connector (*3)	Windows Server (*8)	Linux (*8)	AIX (*8)	Solaris (*8)
SAP HANA	SPS07		✓	✓	✓	✓
	SPS08		✓	✓	✓	✓
	SPS09 (*7)		✓	✓	✓	✓
	SPS10		✓	✓	✓	✓
	SPS11		✓	✓	✓	✓
	SPS12		SP03+	SP03+	SP03+	SP03+
SAP HANA 2.0	SPS 01		SP04+	SP04+	SP04+	SP04+
	SPS 02		SP05+	SP05+	SP05+	SP05+
Sybase Adaptive Server Enterprise	15.5 (*10)	Sybase Open Client 15.5	✓	✓	✓	✓
	15.7	Sybase Open Client 15.7	✓	✓	✓	✓
	16	Sybase Open Client 16	✓	✓	✓	✓
Sybase SQL Anywhere	16	Sybase SQL Anywhere ODBC Driver 16	✓	✓	✓	✓
	17 (*1)	Sybase SQL Anywhere ODBC Driver 17	SP04+	SP04+	SP04+	SP04+

(*1) Bundled on all supported platforms.
(*2) Oracle Real Application Cluster is supported.
(*4) IBM DB2 for LUW v9.7 support requires fixpack 1 (or newer). HADR is supported with DB2 for LUW v9.7 and v10.1.
(*5) IBM DB2 is not supported with Solaris 11.
(*6) MySQL AB 5.6 is not supported with Solaris 11.

(*7) Use HANA Revision 92 and above for SPS09. Refer SAP Note 2021789 for HANA revision details.
(*8) Operating system on which the BI platform is installed.
(*9) Oracle11gR1 has reached end of life Please refer vendor's documentation for more information.
(*10) Sybase Adaptive Server Enterprise 15.5 has reached end of life. Please refer vendor's documentation
(*11) Oracle 12.1.0.2 is supported from SP04+

SAP BusinessObjects BI Platform 4.2
Directory Server (LDAP) Support by Operating System

	Windows	Linux	AIX	Solaris
Directory Server (LDAP)				
IBM Tivoli Directory Server 6.3	✓	✓	✓	✓
IBM Tivoli Directory Server 6.4	SP03+	SP03+	SP03+	SP03+
Microsoft Active Directory 2008 R2	✓	✓	✓	✓
Microsoft Active Directory 2012 and 2012 R2(*2)	✓	✓	✓	✓
Novell eDirectory 8.8	✓	✓	✓	✓
NetIQ eDirectory 9.0 SP02	SP05+	SP05+	SP05+	SP05+
Oracle Internet Directory 10gR3 (*3)	✓	✓	✓	✓
Oracle Internet Directory 11gR1 and 11gR2(*1)	✓	✓	✓	✓
Sun Java System Directory Server Enterprise 6.3	✓	✓	✓	✓
ODSEE 11	✓	✓	✓	✓
ODSEE 11g Release 1 (11.1.1)	SP05+	SP05+	SP05+	SP05+

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

(*2) Active Directory 2012 R2 is supported by reference to 2012

(*3) Oracle Internet Directory 10gR3 has reached end of life. Please refer vendor's documentation for more information.

SAP BusinessObjects BI Platform 4.2
Other Technology Support by Operating System [1/2]

Technology	Technology Version	Windows	Mac OS
Adobe Reader	Adobe Reader 11	✓	✓
	Adobe Reader 15	✓	✓
Adobe Flash Player	Adobe Flash Player 14	✓	✓
	Adobe Flash Player 15/16	✓	✓
	Adobe Flash Player 17	✓	✓
	Adobe Flash Player 22	SP04+	SP04+
Microsoft Office [*1] [*2][*4][*5]	Microsoft Office 2013	✓	-
	Microsoft Office 2016	SP03+	-
	Office 365 [*3]	✓	-

(*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

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

(*4) MS Excel 64bit is supported on Dashboard 4.2

(*5) MS Office 64 bit is supported on Live Office 4.2 SP03

SAP BusinessObjects BI Platform 4.2
Other Technology Support by Operating System [2/2]

Technology	Technology Version	Windows	Linux	AIX	Solaris
Microsoft Active Directory	Microsoft Active Directory 2008 R2 (including LDS support)	✓	-	-	-
	Microsoft Active Directory 2012 / 2012 R2 (including LDS support)(*2)	✓	-	-	-
	Microsoft Active Directory 2016 R2 (including LDS support)	SP04+			
Microsoft .NET Framework	.NET Framework 3.5 SP1	✓	-	-	-
	.NET Framework 4.0 (*1)(*4)	✓	-	-	-
	.NET Framework 4.5 (*4)	✓	-	-	-
	.NET Framework 4.5.2	SP03+	-	-	-
	.NET Framework 4.6.2	SP05+	-	-	-
Computer Associates Access Management	eTrust Siteminder 12.0	✓	✓	✓	✓
SAP GUI	SAP GUI 7.30	✓	-	-	-
	SAP GUI 7.40 (*3)	✓	-	-	-
	SAP GUI 7.50(*6)	SP04+	-	-	-
SAP HANA Vora(*5)		SP04+	SP04+	SP04+	SP04+

Reverse Proxy

Apache HTTP Server 2.2 and 2.4

WebSEAL 6

Microsoft Internet Security and Acceleration (ISA) Server 2006 *(*1)*

Not supported for Mobile Server

(*1) Compatible support with respect to .NET 3.5 SP1
(*2) Active Directory 2012 R2 is supported by reference to 2012
(*3) Recommended minimum supported SAP GUI 7.4 version is SAP GUI 7.4 Patch 2 .
Refer SAP Note 2163607 and SAP note 2063021 for more details.
(*4) .NET Framework 3.5, 4.0 and .NET Framework 4.5 has ended life. Please refer to vendor's
 documentation for more information.
(*5) Please refer slide 24
(*6) Crystal reports and dashboards not supported so far

SAP BusinessObjects BI Platform 4.2
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 6.0 and 6.5[*1] [Windows Server 2008 R2]	✓	-
	XenApp 7.5 [Windows Server 2012 R2]	✓	-
	XenApp 7.6 [Windows Server 2012 R2]	SP03+	-
	XenApp 7.11[*2] , 7.12, 7.15 [Windows Server 2016]	SP05+	-
Microsoft	Remote Desktop Services	✓	-
	Hyper V	SAP Note 1492000	-
Remote Desktop Protocol (RDP) Connectivity	FreeRDP, Rdesktop [SUSE SLES v11, RHEL v7.2+]	-	SP04+
	Cendio Thinlinc [Windows Server 2012 R2, SUSE SLES v11]	SP05+	SP05+

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

*(*2)* XenApp 7.11 is supported by reference to XenApp 7.12 (certified and tested)

SAP BusinessObjects BI Platform 4.2
Cloud Infrastructure Support

SAP Business Intelligence 4.2 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)	SAP Note 1656099
Microsoft Azure Cloud	SAP Note 2145537
IBM SoftLayer Cloud	SAP Note 2279688
Alibaba Cloud (JuShiTa variant)	SAP Note 2314398
Google Cloud Platform (Compute Engine)	SAP Note 2538880

(*1) Edge BI products not supported on HEC

SAP BusinessObjects BI Platform 4.2
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 R2	XMLA	✓	✓	✓	✓
	2012	XMLA	✓	✓	✓	✓
	2014	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 BusinessObjects BI Platform 4.2
SAP BW Minimum version per product – overview (*6)

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 SPS 01+	BW 7.50 SPS 02+	BW 7.50 SPS 03+	BW 7.5 SP05+	BW 7.5 SP10+
Web Intelligence	BICS ((Direct to BEx and via a dimensional UNX)	✓	✓	✓	✓	✓	✓	✓	✓	✓	SP04+	SP05+
Crystal Reports for Enterprise		✓	✓	✓	✓	✓	✓	✓	✓	✓	SP04+	SP05+
Dashboards		✓	✓	✓	✓	✓	✓	✓	✓	✓	SP04+	SP05+
Web Intelligence	UNV OLAP	✓	✓	✓	✓	✓	✓	✓	✓	✓	SP04+	SP05+
Live Office		✓	✓	✓	✓	✓	✓	✓	✓	✓	SP04+	SP05+
Web Intelligence	Multi source universe (Relational)	✓	✓	✓	✓	✓	✓	✓	✓	✓	SP04+	SP05+
Crystal Reports Enterprise		✓	✓	✓	✓	✓	✓	✓	✓	✓	SP04+	SP05+
Dashboards		✓	✓	✓	✓	✓	✓	✓	✓	✓	SP04+	SP05+
Explorer		✓	✓	✓	✓	✓	✓	✓	✓	✓	SP04+	SP05+
Live Office		✓	✓	✓	✓	✓	✓	✓	✓	✓	SP04+	SP05+
Analysis, edition for OLAP (*1)	BICS (Direct to BEx)	✓	✓	✓	✓	✓	✓	✓	✓	✓	SP04+	SP05+
Analysis, edition for Microsoft Office (*2)		(*5)	(*5)	(*5)	(*5)	(*5)	(*5)	(*5)	(*5)	(*5)	(*5)	(*5)
Dashboards	BICS (NW BI Java)	✓	✓	✓	✓	✓	✓	✓	✓	✓	SP04+	SP05+
Explorer	BWA (*4)	✓	✓	✓	✓	✓	✓	✓	✓	✓	SP04+	SP05+
Crystal Reports for Enterprise	Direct to Data (D2D)	-	-	-	-	-	-	-	-	-	-	-
Crystal Reports 2016	Direct BW Connection	✓	✓	✓	✓	✓	✓	✓	✓	✓	SP04+	SP05+
BEx Web Applications (*3)	(Integrated with BI 4)	-	✓	✓	✓	✓	✓	✓	✓	✓	SP04+	SP05+

(*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) Use Analysis, edition for MSFT Office 2.2 version or higher with BI 4.2. Refer to the Analysis, edition for MSFT Office PAM for details

(*6) Latest BW version is supported with all BI 4.2 versions

SAP BusinessObjects BI Platform 4.2

SAP S/4HANA Minimum version per product - overview

Product	Connectivity	S/4HANA 1511 FPS1	S/4HANA 1511 FPS2	S/4 HANA OP1 1511 SPS3	S/4 HANA 1610	S/4 HANA 1709
Web Intelligence	BICS (Direct to Bex and via a dimensional UNX)	✓	SP03+	SP04+	SP04+	SP05+
Crystal Reports for Enterprise	BICS (Direct to Bex and via a dimensional UNX)	✓	SP03+	SP04+	SP04+	SP05+
Analysis, edition for OLAP	BICS (Direct to BEx)	✓	SP03+	SP04+	SP04+	SP05+

SAP BusinessObjects BI Platform 4.2

BW/4HANA Minimum version per product - overview

Product	Connectivity	SAP BW/4HANA 1.0 SP01	SAP BW/4HANA 1.0 SP03	SAP BW/4HANA 1.0 FP06
Web Intelligence	BICS (Direct to Bex and via a dimensional UNX)	SP03+	SP04+	SP05+
Crystal Reports for Enterprise		-	SP04+	SP05+
Analysis, edition for OLAP	BICS (Direct to BEx)	-	SP04+	SP05+

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

SAP BusinessObjects BI Platform 4.2
SAP HANA Support per product - overview

Product	Connectivity	HANA SPS07(*5)	HANA SPS08(*5)	HANA SPS09	HANA SPS10 (*6)	HANA SPS11	HANA SPS12	HANA 2.0 SP1	HANA 2.0 SPS02
Web Intelligence	UNX relational universe, direct access, online access	✓	✓	✓	✓	✓	✓	SP04+	SP05+
Crystal Reports for Enterprise	UNX (Relational Universe)	✓	✓	✓	✓	✓	✓	SP04+	SP05+
Dashboards		✓	✓	✓	✓	✓	✓	SP04+	SP05+
Live Office (*3)		✓	✓	✓	✓	✓	✓	SP04+	SP05+
Explorer	Direct Connection (JDBC) UNX (Relational Universe)	✓	✓	✓	✓	✓	✓	SP04+	SP05+
Crystal Reports 2016	Direct Connection	✓	✓	✓	✓	✓	✓	SP04+	SP05+
Crystal Reports for Enterprise	Direct to Data	✓	✓	✓ (*4)	✓	✓	✓	SP04+	SP05+
Analysis Edition for OLAP	Direct Connection (BICS)	✓	✓	✓ (*2)	✓	✓	✓	SP04+	SP05+
Analysis Edition for Microsoft Office(*1)(*7)		✓	✓	✓	✓	✓	✓	SP04+	SP05+

(*1) Please refer to the Analysis, Edition for Microsoft Office PAM for details.
(*2) If you are connecting to HANA SP09, AOLAP needs a workaround (refer SAPNote 2095297)
(*3) Range prompts not supported for relational UNX created on HANA
(*4) Refer to SAPNote2181019 for limitations on Crystal Reports for Enterprise on SAP HANA SPS09.
(*5) "Web Intelligence HANA Direct Access" and "Web Intelligence HANA Online" do not support SAP HANA SPS08 and previous versions. Refer SAP Note 2210945 for details.
(*6) if you are connecting to HANA SPS10, it's recommended to use revision 102 and above, for the fix on SAML authentication from BIP to HANA.
(*7) Use Analysis, edition for MSFT Office 2.2 version or higher with BI 4.2.
(*8) All the currently supported BI 4.2 SPx support the latest HANA SPS, since HANA is backward compatible.

SAP BusinessObjects BI Platform 4.2
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 32-bit application and need 32-bit database driver on client. 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 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: C:\Windows\System32\odbcad32.exe

Crystal Reports 2016 – Enterprise Data Sources

- Please consult the file *CR 2016 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 4.2
Data Services, Information Steward and others

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. Please refer Lumira PAM here.

Appendix

SAP BusinessObjects BI Platform 4.2
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
Recommended Disk Space Requirements
SAP BusinessObjects BI (client installer):
*   3.5 GB for default installation with English language only installed
*   10 GB for default installation with all languages installed
SAP BusinessObjects BI (server installer):
*   11 GB for default installation with English language only installed
*   30 GB for default installation with all languages installed

Minimum OS Patch Requirements: Its strongly recommended that systems are updated with the latest Microsoft Updates and all the required components are present, See SAP Note 1902990 for details.

SAP BusinessObjects BI Platform 4.2
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.

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 4.2
Minimum OS Patch Requirements - Linux

Required components for SUSE
Glibc , glibc-32bit , libstdc++33 , libstdc++33-32bit . Also a link to the Install Guide should be provided , same like how it is provided for Redhat in the same slide.
For a complete list of requirements, please see System Requirements section of the relevant "Business Intelligence Platform Installation Guide for Unix" product guide at Help Portal

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

Minimum Patch Level for SUSE Linux Enterprise Server 12
No additional components required outside the SLES 12 RTM install.

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
For a complete list of requirements, please see System Requirements section of the relevant "Business Intelligence Platform Installation Guide for Unix" product guide at Help Portal

Required components for Red Hat Enterprise Linux 7
compat-libstdc++-33-3.2.3-72.el7.i686
compat-libstdc++-33-3.2.3-72.el7.x86_64
For a complete list of requirements, please see System Requirements section of the relevant "Business Intelligence Platform Installation Guide for Unix" product guide at Help Portal

Required components for Promotion Management Wizard & Upgrade Management Tool (GUI)
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.

SAP BusinessObjects BI Platform 4.2
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
Hebrew	he_IL.utf-8
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 4.2
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.

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 4.2
Minimum OS Patch Requirements - AIX

Minimum Patch Level for AIX 6.1
Required AIX 6.1 operating system install plus:
Technology Level 9
IBM C++ Runtime Environment 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 4
IBM C++ Runtime Environment Components for AIX => xlC.aix61.rte 11.1.0.2

Minimum Patch Level for AIX 7.2
Required AIX 7.2 operating system install plus:
Technology Level 0 SP1
IBM C++ Runtime Environment Components for AIX => xlC.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.

SAP BusinessObjects BI Platform 4.2
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
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
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 4.2
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 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 4.2
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
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
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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