RISKMASTER Business Analytics XI 4.2 Technical Specifications

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Server Products and Operating Systems

64-bit BusinessObjects BI Server Products	Windows (*1)			
	Server 2008 R2 x64	Server 2012	Server 2012 R2	Server 2016
	SP1			
SAP BusinessObjects BI platform	✓	✓	✓	SP03+
SAP BusinessObjects Analysis, edition for OLAP	✓	✓	✓	SP03+
SAP BusinessObjects Explorer	✓	✓	✓	SP03+
SAP BusinessObjects Web Intelligence	✓	✓	✓	SP03+
SAP Crystal Reports for Enterprise	✓	✓	✓	SP03+
SAP Crystal Reports 2016	✓	✓	✓	SP03+
SAP BusinessObjects Dashboards	✓	✓	✓	SP03+
Mobile Server	✓	✓	✓	SP03+

Note: BusinessObjects BI server components only support 64-bit operating systems

Desktop Clients and Operating Systems

	Windows Server				Windows Desktop			
	Server 2008 R2	Server 2012	Server 2012 R2	Server 2016	Windows 7 SP1	Windows 8	Windows 8.1	Windows 10
32-bit BusinessObjects BI Desktop Clients	SP1				SP1			
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+	✓	✓	✓	✓
SAP Crystal Presentation Design 2016	✓	✓	✓	SP03+	✓	✓	✓	✓
SAP BusinessObjects Dashboards[*1]	✓	✓	✓	SP03+	✓	✓	✓	✓

Note: BusinessObjects BI desktop components are 32-bit and can be used in 64-bit operating systems

Language Support by Products

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

Note:
- (*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	Java	Windows Server				Windows Desktop		
		Server 2008 SP2 x64	Server 2008 R2 SP1 x64	Server 2012 X64	Server 2012 R2	Windows 7 SP1	Windows 8.1	Windows 10 (*7)
Microsoft IE 10 desktop version[*1] [*9]	Oracle JRE 7, 8[*6]	-	-	✓	-	-	-	-
Microsoft IE 11 desktop version[*1] [*9]	Oracle JRE 7, 8[*6]	-	✓	-	✓	✓	✓	✓
Mozilla Firefox ESR 45.x[*2] [*5][*10]	Oracle JRE 7, 8[*6]	✓	✓	✓	✓	✓	✓	✓
Google Chrome[*3][*8]	Oracle JRE 7, 8[*6]	✓	✓	✓	✓	✓	✓	✓
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]	-	-	-	-	-	-	-

Note:
- 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 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.

Java Application Server Support by Operating Systems

			Windows Server
			Oracle/Sun JDK
Application Server (*2)	Version	Java Version	
Apache Tomcat (*6)	7.0	Java 7, Java 8, SAP JVM 8	✓
	8.0	Java 7, Java 8, SAP JVM 8	✓

SDK version dependency for each Operating System.

	Oracle/Sun JDK
Java 6	Oracle JDK 6
Java 7	Oracle JDK 7
Java 8	Oracle JDK 8

CMS + Audit Repository Support by Operating Systems

Provider Name	Version	Database Connector (*3)	Windows Server
Microsoft SQL Server	2008 R2	Microsoft ODBC driver for SQL Server (WDAC 6)	✓
	2012	Microsoft SQL Server Native Client 11	✓
	2014	Microsoft SQL Server Native Client 11	✓
Oracle (*2)	11gR1 (*9)	Oracle Net Client 11g R1	✓
	11gR2	Oracle Net Client 11g R2	✓
	12c	Oracle Net Client 12c	✓

Note:
(*2) Oracle Real Application Cluster is supported.
(*3) Only 64-bit database connector middleware is supported

Directory Server (LDAP) Support by Operating Systems

Directory Server (LDAP)	Windows
Microsoft Active Directory 2008 R2	✓
Microsoft Active Directory 2012 and 2012 R2 (*2)	✓

Other Technology Support by Operating Systems

Technology	Technology Version	Windows
Adobe Reader	Adobe Reader 11	✓
	Adobe Reader 15	✓
Adobe Flash Player	Adobe Flash Player 14	✓
	Adobe Flash Player 15/16	✓
	Adobe Flash Player 17	✓
Microsoft Office (*1) (*2)(*4)(*5)	Microsoft Office 2010 SP1+	✓
	Microsoft Office 2013	✓
	Microsoft Office 2016	SP03+
	Office 365 (*3)	✓

Note:
- (*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

Technology	Technology Version	Windows
Microsoft Active Directory	Microsoft Active Directory 2008 R2 (including LDS support)	✓
	Microsoft Active Directory 2012 / 2012 R2 (including LDS support)(*2)	✓
Microsoft .NET Framework	.NET Framework 3.5 SP1	✓
	.NET Framework 4.0 *(*1)(*4)*	✓
	.NET Framework 4.5 *(*4)*	✓
	.NET Framework 4.5.2 *(*4)*	SP03+

Minimum Hardware Requirements

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

Minimum Server Tools Machine Memory Requirements
- 16 GB RAM minimum

Minimum Client Tools Machine Memory Requirements
- 2 GB RAM

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