

# **SAP Crystal Server 2011**

## **Product Availability Matrix (PAM)**

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# SAP Crystal Server 2011 Product Availability Matrix (PAM)



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# SAP Crystal Server 2011 PAM

## Server Products and Operating Systems



	Windows (*1)				Linux		
	Server 2003 x64	Server 2003 R2 x64	Server 2008 x64	Server 2008 R2 x64	Suse SLES 10 x86_64	Suse SLES 11 x86_64	Red Hat EL 5 x86_64
64-bit BusinessObjects Enterprise Server Products	SP2	SP2	RTM SP2	RTM	SP2 (*2)	(*2)	Upd. 2 (*2)
SAP BusinessObjects Business Intelligence platform	✓	✓	✓	✓	✓	✓	✓
Data Federator Services	✓	✓	✓	✓	✓	✓	✓
SAP BusinessObjects Explorer	✓	✓	✓	✓	✓	✓	✓
SAP Crystal Reports for Enterprise	✓	✓	✓	✓	✓	✓	✓
BI Workspace	✓	✓	✓	✓	✓	✓	✓

- BusinessObjects Enterprise 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) Please see Compatible Support section of the [Platforms Support Policy](#)

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## Client Products and Operating Systems



	Windows Server				Windows Desktop			Mac
	Server 2003	Server 2003 R2	Server 2008	Server 2008 R2	Windows XP Professional	Windows Vista	Windows 7	Mac OS X
32-bit BusinessObjects Enterprise Desktop Products	SP2	SP2	RTM SP2	RTM	SP3	SP2	RTM	
SAP BusinessObjects Enterprise 4.0 Client	✓	✓	✓	✓	✓	✓	✓	X
SAP BusinessObjects 4.0 Live Office	✓	✓	✓	✓	✓	✓	✓	X
SAP Crystal Reports for Enterprise	✓	✓	✓	✓	✓	✓	✓	X
SAP Crystal Reports 2011 (*1)	✓	✓	✓	✓	✓	✓	✓	X
SAP Crystal Reports Viewer 2011 (*1)	✓	✓	✓	✓	✓	✓	✓	✓
SAP Crystal Presentation Design (*1)	✓	✓	✓	✓	✓	✓	✓	X
SAP BusinessObjects Dashboards (*1)	✓	✓	✓	✓	✓	✓	✓	X

- BusinessObjects Enterprise desktop components are 32-bit and can be used in 64-bit operating systems
- (\*1) These products are not part of the Crystal Server 2011 package, however they are fully supported as indicated in table above if installed and licensed separately

# SAP Crystal Server 2011 PAM

## Language Support by 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	
BusinessObjects Enterprise Products	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BusinessObjects Enterprise Server Products	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BusinessObjects Enterprise Desktop Products	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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

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## Browser Support by Operating Systems



Web Browser	Java	Windows Server				Windows Desktop			Mac OS
		Server 2003 x64	Server 2003 R2 x64	Server 2008 x64	Server 2008 R2 x64	Windows XP	Windows 7	Windows Vista	Mac OS X
IE 7	Sun JRE 1.5 / 1.6	✓	✓	✓	✓	✓	X	✓	X
IE 8	Sun JRE 1.6	✓	✓	✓	✓	✓	✓	✓	X
Firefox 3.5	Sun JRE 1.5 / 1.6	✓	✓	✓	✓	✓	✓	✓	X
Firefox 3.6	Sun JRE 1.6	✓	✓	✓	✓	✓	✓	✓	X
Safari 4.0.x	Apple JVM 1.5 / 1.6	X	X	X	X	X	X	X	✓

- Only 32-bit browsers are supported

# SAP Crystal Server 2011 PAM

## Application Server Support by Operating Systems [1/2]



See next slide for foot notes and explanations on how to read the table.

Application Server	Version	Java Version	Windows Server	Linux
			Sun JDK	Sun JDK
JBoss Application Server	4.2.3	Java 5 / Java 6	✓	✓
	5.0	Java 5 / Java 6	✓	✓
SAP NetWeaver CE	7.2 SP3	SAP JVM 1.6 (*2)	✓	✓
SAP NetWeaver Java Application Server	7.3	SAP JVM 1.6 (*2)	✓	✓
Tomcat	5.5.28	Java 5	✓	✓
	6.0.20	Java 5 / Java 6	✓	✓
WebLogic	9.2 MP2	Java 5	✓	✓
		JRockit 5.0	✓	✓
	10	Java 5	✓	✓
		JRockit 5.0	✓	✓
	10.3	Java 5	✓	✓
		JRockit 6.0	✓	✓
WebSphere	6.1.0.7	Java 5 (*1)	✓	✓
	7.0.0.11	Java 6 (*1)	✓	✓

# SAP Crystal Server 2011 PAM

## Application Server Support by Operating Systems [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 5, and the operating system notes that it is a Sun JDK, it means that this is Sun JDK 1.5 release. Similar for IBM Java.

	Sun JDK	IBM Java
Java 5	Sun JDK 1.5	IBM Java 5
Java 6	Sun JDK 1.6	IBM Java 6

- Only Java Application Server utilizing 64-bit JDK's are supported
- (\*1) WebSphere is supported with IBM Java SDK on all Operating Systems
- (\*2) SAP NetWeaver is supported with SAP JVM on all Operating Systems



# SAP Crystal Server 2011 PAM IIS Support



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

Application Server	Version	Windows Server 2003	Windows Server 2008	Windows Server 2008 R2
IIS	6	✓	x	x
	7	x	✓	x
	7.5	x	x	✓

# SAP Crystal Server 2011 PAM

## Portal Server Support by Operating Systems



		Windows Server	Linux
Portal Server	Version		
WebLogic Portal	10	✓	✓
	10.3	✓	✓
Websphere Portal	6.1	✓	✓
	6.1.5	✓	✓
MSFT SharePoint (1)	2007	✓	X
	2010	✓	

(1) .NET 3.5

# SAP Crystal Server 2011 PAM

## CMS + Audit Repository Support by Operating Systems



Provider Name	Version	Database Connector (*1)	Windows Server	Linux
			x64	x86_64
IBM DB2 for Linux, UNIX, and Windows	9.1	DB2 Client 9.1	✓	✓
	9.5	DB2 Client 9.5	✓	✓
	9.7	DB2 Client 9.7	✓	✓
IBM DB2 Workgroup Edition (*2)	9.7	DB2 Client 9.7	X	✓
Microsoft SQL Server	2005 SP3	Microsoft ODBC MDAC 2.8	✓	X
		Microsoft ODBC SNAC (Native Client)	✓	X
	2008	Microsoft ODBC MDAC 2.8	✓	X
		Microsoft ODBC SNAC (Native Client)	✓	X
Microsoft SQL Server Express (*2)	2008	Microsoft ODBC MDAC 2.8	✓	X
MySQL AB	5.0	MySQL C-API	✓	✓
Oracle	10gR1	Oracle Net Client 10g R1	✓	✓
	10gR2	Oracle Net Client 10g R2	✓	✓
	11gR1	Oracle Net Client 11g R1	✓	✓
	11gR2	Oracle Net Client 11g R2	✓	✓
SAP MaxDB	7.7	MaxDB ODBC 7.7 (7.7.07.20+)	✓	✓
Sybase Adaptive Server Enterprise	15	Sybase Open Client 15	✓	✓

- (\*1) Only 64-bit database connector middleware is supported
- (\*2) Bundled with Crystal Server 2011

# SAP Crystal Server 2011 PAM Directory Server (LDAP) Support by Operating Systems



	Windows	Linux
Directory Server (LDAP)		
IBM Tivoli Directory Server 6.1	✓	✓
IBM Tivoli Directory Server 6.2	✓	✓
Lotus Domino Directory 6.5.3	✓	✓
Microsoft Active Directory Application Mode 2003	✓	✓
Microsoft Active Directory Application Mode 2008	✓	✓
Microsoft Active Directory Application Mode 2008 R2	✓	✓
Novell eDirectory 8.8	✓	✓
Oracle Internet Directory 10g R3	✓	✓
Sun Java System Directory Server Enterprise 6.3	✓	✓

# SAP Crystal Server 2011 PAM

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



Technology	Technology Version	Windows	Mac OS
Adobe Reader	Adobe Reader 8.1.2	✓	✓
	Adobe Reader 9.0 (*4)	✓	✓
	Adobe Reader 9.3.x	✓	✓
Adobe Flash Player	Adobe Flash Player 9 (*2)	✓	✓
	Adobe Flash Player 10 (*3)	✓	✓
Microsoft Office	Microsoft Office XP SP3 (*1)	✓	X
	Microsoft Office 2003 SP3	✓	X
	Microsoft Office 2007 SP2	✓	X

- (\*1) Microsoft Office XP is not supported by Live Office. Support for Office XP will be discontinued for all products in SAP BOE 4.1
- (\*2) Flash Player 10 is required to use BusinessObjects Enterprise monitoring
- (\*3) SAP BusinessObjects Explorer requires Adobe Flash Player version 10.1 or higher
- (\*4) Adobe Reader 9.1.x + 9.2.x are supported by reference to Adobe Reader 9.0

# SAP Crystal Server 2011 PAM

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



		Windows	Linux
Technology	Technology Version		
Microsoft Active Directory	Microsoft Active Directory 2003	✓	X
	Microsoft Active Directory 2008 R2 (including LDS support)	✓	X
Computer Associates Access Management	eTrust Siteminder 12.0	✓	✓



## 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
Citrix	XenApp 6.0 [Windows Server 2008 R2]	✓
	XenApp 5.0 [Windows Server 2003 & 2008]	✓
	Presentation Server 4.5 [Windows Server 2003]	✓
Microsoft	Remote Desktop Services	✓

# SAP Crystal Server 2011 PAM

## Data Access



**Important Note:** The Data Access information provided on this page were compiled for SAP BusinessObjects BI 4.0 SP02. It is also applicable to SAP Crystal Server 2011 except for unsupported features listed below: Any data access information for these features should be deemed not applicable.

BICS connections

SAP, PeopleSoft, JDE, Siebel, Oracle EBS data sources

BW data access

Solaris and AIX operating systems

### Semantic Layer + Connection Server Data Sources

Please consult the file [Semantic Layer Datasources](#)

Notes:

- Overview of different types of universes can be found in the tab *Universe Consumption*
- Suggested way to view find needed information: select Operating system + filter on Sources for your choice of data access

### Crystal Reports 2011 Enterprise Data Sources

Please consult the file [CR 2011 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



# APPENDIX



# SAP Crystal Server 2011 PAM

## Minimum HW Requirements - Windows



### **Minimum Screen Resolution**

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

### **Minimum Server Hardware Requirements**

2.0 GHz dual-core 64 bit CPU or better  
6 GB RAM

### **Minimum Client Hardware Requirements**

2.0 GHz CPU  
2 GB RAM

NOTE: Compiled binaries of SAP Crystal Server 2011 software is supported on versions of the Windows operating system running on CPUs made by AMD or Intel

### **Recommended Disk Space Requirements (server installer)**

6 GB for default installation with English language only installed  
9 GB for default installation with all languages installed

# SAP Crystal Server 2011 PAM

## Minimum HW Requirements - Linux



### Minimum Hardware Requirements

2.0 GHz Intel Core CPU

4 GB RAM

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

### Minimum Patch Level for SUSE Linux Enterprise Server 10

Required SUSE Linux Enterprise Server 10 operating system install plus:

SUSE Linux Enterprise Server 10 Service Pack 2

Higher patches beyond the specified minimum patch requirement may be used, but they may not be officially tested by BusinessObjects products.

### Minimum Patch Level for SUSE Linux Enterprise Server 11

No additional components required outside the SLES 11 RTM install.

Higher patches beyond the specified minimum patch requirement may be used, but they may not be officially tested by BusinessObjects products.

### Minimum Patch Level for Red Hat Enterprise Linux 5

Required RedHat 5 operating system install plus:

Red Hat Enterprise Linux 5 Update 2

Higher patches beyond the specified minimum patch requirement may be used, but they may not be officially tested by BusinessObjects products.

### Recommended Disk Space Requirements

SAP BusinessObjects Enterprise (server installer):

14 GB for default installation with English language only installed

16 GB for default installation with all languages installed

# SAP Crystal Server 2011 PAM

## 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
Russian	ru_RU.utf8
Slovakian	sk_SK.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