

SAP BusinessObjects

DS 4.1 SP1

Product Availability Matrix (PAM)

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PRODUCT AVAILABILITY MATRIX

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Product Infrastructure Dependency

Data Services requires SAP BusinessObjects BI or Information platform services (IPS) for security capability. The following is compatible versions from Data Services 4.1 SP1 onwards:

- SAP BusinessObjects Business Intelligence (BI) 4.0 SP4 or higher compatible patches
- OR
- SAP BusinessObjects Information platform services (IPS) 4.0 SP4 or higher compatible patches

The Supported Platforms information of BI/IPS 4.0 can be found in <http://service.sap.com/PAM> or direct link to [SBOP BI PLATFORM 4.0](#). Documentation and supported platforms information for BI 4.0 also apply to IPS 4.0.

For more information on the compatibility of Data Services with BI platform or IPS versions, please see [SAP Note 1740516](#)

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Server Products and Operating Systems

	Windows (*1)				Linux				AIX			Solaris
	Server 2003 x64	Server 2003 R2 x64	Server 2008 x64	Server 2008 R2 x64	SuSE SLES 10 x86_64	SuSE SLES 11 (*3) x86_64	Red Hat EL 5 x86_64	Red Hat EL 6 x86_64	AIX 5.3 Power	AIX 6.1 Power	AIX 7.1 Power	Solaris 10 SPARC
64-bit BusinessObjects Data Services Server Products	SP2	SP2	SP2	SP1	SP2 (*2)	SP1 (*2)	Upd. 2 (*2)	Upd. 2 (*2)	TL 9 SP3	TL5	TL 2 SP1	
Data Services Job Server	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Data Services Access Server	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Data Services Management Console	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
EIM Adaptive Processing Server (APS) Services	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

(*1) Datacenter Enterprise, Standard and Web Edition supported.

(*2) Please see Compatible Support section of the [Platforms Support Policy](#)

(*3) Data Services provides the additional “Data Services Rapid Deployment for HANA on SuSE” package on SuSE 11 only. This is a customized pre-installation package for speeding up the first time installation and configuration of Data Services on HANA landscape.

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Client Products and Operating Systems

	Windows Server (*1)				Windows Desktop		
	Server 2003	Server 2003 R2	Server 2008	Server 2008 R2	Windows XP	Windows Vista	Windows 7
SAP BusinessObjects Data Services Desktop Products	SP2	SP2	RTM. SP2	RTM. SP1	SP3	SP2	RTM. SP1
Data Services Designer 32-bit	X	X	X	X	✓	✓	✓
Data Services Designer 64-bit	✓	✓	✓	✓	✓	✓	✓
Data Services Workbench	✓	✓	✓	✓	✓	✓	✓

(*1) Datacenter, Enterprise, Standard, and Web Editions supported
 Specified servers versions have been successfully tested by SAP Business Objects. Incremental releases of the specified versions defined by the last number in the server name will be supported as they are made available, but may not have been tested by SAP BusinessObjects. Exceptions in support will be documented.

Please see Compatible Support section of the [Platforms and Technologies Support Policy Guide](#)

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Languages Support by Operating Systems

	Windows	Linux	AIX	Solaris
Languages				
English ^(*1)	✓	✓	✓	✓
Japanese ^(*1)	✓	✓	✓	✓
Turkish ^(*2)	✓	✓	✓	✓
German ^(*1)	✓	✓	✓	✓
French ^(*1)	✓	✓	✓	✓
Czech ^(*2)	✓	✓	✓	✓

^(*1) User Interface and documentation

^(*2) User Interface only

Note: Installer supports English only

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Web Browser Support by Operating Systems

		Windows	Linux	AIX	Solaris
Web Browser	Plug-In				
IE 7.0	Macromedia Flash Player 9.0 or above supported for Internet Explorer	✓	x	x	x
IE 8.0	Macromedia Flash Player 9.0 or above supported for Internet Explorer	✓	x	x	x
IE 9.0	Macromedia Flash Player 9.0 or above supported for Internet Explorer	✓	x	x	x

Browsers to access Data Services Management Console are supported on Windows only

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

Application Server	Version	Java Version	Windows	Linux	AIX	Solaris
			<i>Sun JDK</i>	<i>Sun JDK</i>	<i>IBM Java</i>	<i>Sun JDK</i>
JBoss	5.0.1	Java 6	✓	✓	X	X
SAP NetWeaver	7.3	SAP JVM 1.6 ^(*2)	✓	✓	✓	✓
Tomcat	6.0.20	Java 6	✓	✓	✓	✓
	7	Java 6	✓	✓	✓	✓
WebLogic	10	Java 5	✓	✓	✓	✓
		JRockit 5.0	✓	✓	X	✓
	10.3	Java 6	✓	✓	✓	✓
		JRockit 6.0	✓	✓	X	✓
	10.3.3	Java 6	✓	✓	✓	✓
		JRockit 6.0	✓	✓	X	✓
WebSphere	6.1.0.7	Java 5 ^(*1)	✓	✓	✓	✓
	7.0.0.11	Java 6 ^(*1)	✓	✓	✓	✓

See next slide for foot notes and [explanations on how to read the table](#)

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Java 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

Application Server Incremental Release Support Policy

Specified application servers versions have been successfully tested by SAP BusinessObjects. Incremental releases of the specified versions defined by the last number in the application server name will be supported as they are made available, but may not have been tested by SAP BusinessObjects. Exceptions in support will be documented.

JDK Version Support Policy

JDK major versions are specified to ensure the use of correct version when there are multiple choices provided by the vendor. SAP BusinessObjects tests and supports any _xx release installed with a given application server.

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DBMS Repository Support by Operating Systems [1/2]

Table #1

				Windows	Linux	AIX	Solaris
DBMS	Version	ODBC Client	JDBC Client	Repository			
IBM DB2 for Linux, Unix and Windows	9.1	DB2 Client 9.1	db2jcc.jar (3.57.82)	✓	✓	✓	✓
	9.5	DB2 Client 9.5	db2jcc.jar (3.57.82)	✓	✓	✓	✓
	9.7	DB2 Client 9.7	db2jcc.jar (3.57.82)	✓	✓	✓	✓
IBM DB2 Workgroup Edition	9.7	DB2 Client 9.7	db2jcc.jar (3.57.82)	✓	✓	✓	✓
MS SQL Server	2005 SP3 / SP4	MS SQL Server Client 2005	sqljdbc.jar (10.1.2)	✓	x	x	x
	2008 R2	MS SQL Server Native Client 2008	sqljdbc.jar (10.1.2)	✓	x	x	x
	2008 SP2	MS SQL Server Native Client 2008	sqljdbc.jar (10.1.2)	✓	x	x	x
	2012	MS SQL Server Native Client 11	sqljdbc.jar (10.1.2)	x	x	x	x
MS SQL Server Express	2008	MS SQL Server Native Client 2008	sqljdbc.jar (10.1.2)	✓	x	x	x

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DBMS Repository Support by Operating Systems [2/2]

Table #2

DBMS	Version	ODBC Client	JDBC Client	Windows	Linux	AIX	Solaris
				Repository			
MySQL	5.1	MySQL ODBC Connector 5.1	mysql-connector-java 5.1.18-bin	✓	✓	✓	✓
Oracle	10gR2	Oracle Net Client 10gR2	ojdbc5.jar / ojdbc6.jar	✓	✓	✓	✓
	11gR1	Oracle Net Client 11gR1	ojdbc5.jar / ojdbc6.jar	✓	✓	✓	✓
	11gR2	Oracle Net Client 11gR2	ojdbc5.jar / ojdbc6.jar	✓	✓	✓	✓
SAP HANA	1.0 SP3 (1.00.25)	HANA ODBC 1.0 SP3	ngdbc.jar (1.0 SP3)	✓	✓	✓	✓
	1.0 SP4	HANA ODBC 1.0 SP4	ngdbc.jar (1.0 SP4)	✓	✓	✓	✓
	1.0 SP5	HANA ODBC 1.0 SP5	ngdbc.jar (1.0 SP5)	✓	✓	✓	✓
Sybase ASE	15.0	Sybase Open Client 15.0	jconn3.jar	✓	✓	✓	✓
	15.5	Sybase Open Client 15.5	jconn3.jar	✓	✓	✓	✓
	15.7	Sybase Open Client 15.7	jconn3.jar	✓	✓	✓	✓

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DBMS Source & Target Support by Operating Systems [1/4]

Table #1			Windows	Linux	AIX	Solaris
DBMS	Version	Client	Source & Target	Source & Target	Source & Target	Source & Target
HP Neoview	2.3	HP Neoview ODBC 2.3	✓	✓	x	x
	2.4	HP Neoview ODBC 2.4	✓	✓	x	x
HADOOP	HDFS 0.20.203	Hive 0.7.1	x	✓	x	x
	HDFS 0.20.203	Pig 0.9.1	x	✓	x	x
IBM DB2 for iSeries	5.4	IBM ISeries Access (ODBC) 5.4	✓	✓	✓	✓
	5.4	DB2 Connect Enterprise Edition 9.5	✓	✓	✓	✓
	6.1	DB2 ISeries Access (ODBC) 6.1	✓	✓	✓	✓
	6.1	DB2 Connect Enterprise Edition 9.5	✓	✓	✓	✓
	6.1	DataDirect ODBC Driver V6.0	✓	✓	✓	✓
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 for z/OS	8.1	DB2 Connect Enterprise Edition 9.5	✓	✓	✓	✓
	8.1	DataDirect ODBC Driver V6.0	✓	✓	✓	✓
	9.1	DB2 Connect Enterprise Edition 9.7	✓	✓	✓	✓
	9.1	DataDirect ODBC Driver V6.0	✓	✓	✓	✓

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DBMS Source & Target Support by Operating Systems [2/4]

Table #2			Windows	Linux	AIX	Solaris
DBMS	Version	Client	Source & Target	Source & Target	Source & Target	Source & Target
Informix IDS	10.0	Informix client 2.9	✓	✓	✓	✓
	11.0	Informix client 3.5	✓	✓	✓	✓
	11.5	Informix client 3.5	✓	✓	✓	✓
MS SQL Server	2000 SP4	MS SQL Server Client 2000 (Windows) DataDirect ODBC Driver V6.0 (Linux, AIX, Solaris)	✓	✓	✓	✓
	2005 SP3 / SP4	MS SQL Server Client 2005 (Windows) DataDirect ODBC Driver V6.0 (Linux, AIX, Solaris)	✓	✓	✓	✓
	2008 R2 / SP2	MS SQL Server Client 2008 (Windows) DataDirect ODBC Driver V6.0 (Linux, AIX, Solaris)	✓	✓	✓	✓
	2012	MS SQL Server Client 2012 (Windows) DataDirect ODBC Driver V6.0 (Linux, AIX, Solaris)	✓	x	x	x
My SQL	5.0	MySQL ODBC Connector 3.51	✓	✓	✓	✓
	5.1	MySQL ODBC Connector 5.1	✓	✓	✓	✓

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DBMS Source & Target Support by Operating Systems [3/4]

Table #3

			Windows	Linux	AIX	Solaris
DBMS	Version	Client	Source & Target	Source & Target	Source & Target	Source & Target
Netezza	NPS 4.5	Netezza ODBC driver 4.5	✓	✓	✓	✓
	NPS 4.6	Netezza ODBC driver 4.6	✓	✓	✓	✓
	NPS 5.0	Netezza ODBC driver 5.0	✓	✓	✓	✓
	NPS 6.0	Netezza ODBC driver 6.0	✓	✓	✓	✓
ODBC to Generic Data Sources ^(*)	n/a	DataDirect ODBC Driver V6.0 ^(*)	✓	✓	✓	✓
Oracle	9.2	Oracle Net Client 9.2	✓	✓	✓	✓
	10gR2	Oracle Net Client 10.2	✓	✓	✓	✓
	11g	Oracle Net Client 11	✓	✓	✓	✓
	11gR1	Oracle Net Client 11	✓	✓	✓	✓
	11gR2	Oracle Net Client 11	✓	✓	✓	✓
SAP HANA ^(*)	1.0 SP3	HANA ODBC 1.0 SP3	✓	✓	✓	✓
	1.0 SP4	HANA ODBC 1.0 SP4	✓	✓	✓	✓
	1.0 SP5	HANA ODBC 1.0 SP5	✓	✓	✓	✓

(*) 3rd Party ODBC Level 2-compliant Drivers may potentially have issues as not all combinations have been tested yet, but are supported as a general rule.

(*) The rebranded version of Data Direct ODBC Drivers V6.0 is bundled in Data Services, including DB2, SQL Server, Oracle 7/8 drivers, and others. For detailed installation and configuration refer to [SAP Note 1305167](#).

(*) Refer to [SAP Note 1600140](#) for the latest updates on supported versions and detailed compatibility information between Data Services and HANA

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DBMS Source & Target Support by Operating Systems [4/4]

Table #4

DBMS	Version	Client	Windows	Linux	AIX	Solaris
			Source & Target	Source & Target	Source & Target	Source & Target
Sybase ASE	15.0	Sybase Open Client 15.0	✓	✓	✓	✓
	15.5	Sybase Open Client 15.5	✓	✓	✓	✓
	15.7	Sybase Open Client 15.7	✓	✓	✓	✓
Sybase IQ	12.7	Sybase ODBC 9 for Adaptive Server IQ 12.7	✓	✓	✓	✓
	15.1	Sybase ODBC 9 for Adaptive Server IQ 15.1	✓	✓	✓	✓
	15.2	Sybase ODBC 11 for Adaptive Server IQ 15.2	✓	✓	✓	✓
	15.3	Sybase ODBC 11 for Adaptive Server IQ 15.3	✓	✓	✓	✓
	15.4	Sybase ODBC 11 for Adaptive Server IQ 15.4	✓	✓	✓	✓
Teradata ^(*)	12.0	Teradata ODBC 12.0	✓	✓	✓	✓
	13.0	Teradata ODBC 13.0	✓	✓	✓	✓
	13.1	Teradata ODBC 13.10	✓	✓	✓	✓
	14.0	Teradata ODBC 14.00	✓	✓	✓	✓

See next slide for Teradata foot note

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DBMS Source & Target Support by OS – Footnotes

(*1) Teradata only provides native 32-bit version of TTU client, which have been validated to interoperate with Data Services native 64-bit products, where available.

➤ Teradata support requires the following TTU patches:

❖ On Windows:

- cliv2.04.08.00.01.exe
- tbld5000.05.00.00.01.exe
- pse15000.05.00.00.01.exe
- pdtc5000.05.00.00.01.exe
- npaxsmo.01.03.01.00.exe
- npaxsmo.01.03.00.02.exe
- npaxsmo.01.03.00.01.exe

➤ Teradata 12 support requires the following TTU patches:

❖ On AIX and Solaris:

- Teradata Parallel Transporter Version 12.00.00.02
- Teradata Parallel Transporter DataConnector Version 12.00.00.03
- Teradata Parallel Transporter Stream Operator Version 12.00.00.01

Database Middleware Support (Windows, Linux, AIX, Solaris)

Interoperability combinations between 32-bit / 64-bit releases of database client / server will be supported, so long as vendor compatibility between client middleware and server is guaranteed.

ODBC DSN Support (Windows only)

SAP BusinessObjects products use the 64-bit ODBC registry on all versions of Windows.

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Application Connectivity support by Operating Systems 1 of 2

See next slide for foot notes

			Windows	Linux	AIX	Solaris
Data Source	Version	Client	Source & Target			
SAP NetWeaver BW ^(*3)	3.5	RFC SDK 7.10 and JCO 3.0	✓	✓	✓	✓
	7.0		✓	✓	✓	✓
	7.3		✓	✓	✓	✓
SAP R/3	4.6	SAP GUI Client 6.20 or higher ^(*4)	✓	✓	✓	✓
	4.7		✓	✓	✓	✓
SAP ERP	ECC 5.0	SAP GUI Client 6.20 or higher (Windows) RFC SDK 7.1 and JCO 3.0 (Linux, AIX, Solaris)	✓	✓	✓	✓
	ECC 6.0		✓	✓	✓	✓
SAP CRM	CRM 2007 (6.0)		✓	✓	✓	✓
	CRM 7.0		✓	✓	✓	✓
SAP SRM	SRM 6.0		✓	✓	✓	✓
	SRM 7.0		✓	✓	✓	✓
SAP SCM	SCM 7.0		✓	✓	✓	✓

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Application Connectivity support by Operating Systems 2 of 2

See next slide for foot notes

			Windows	Linux	AIX	Solaris
Data Source	Version	Client	Source & Target			
JD Edwards ^(*)	XE (B7.33)	MS SQL Server Client, DB2 iSeries, or Oracle Net Client	✓	✓	✓	✓
JD Edwards World ^(*)	A7.1		✓	✓	✓	✓
Oracle E-Business Suite	11i	Oracle Net Client	✓	✓	✓	✓
	12		✓	✓	✓	✓
	12.1		✓	✓	✓	✓
PeopleTools ^(*) to connect to PeopleSoft Applications	8.4	Oracle Net Client	✓	✓	✓	✓
Salesforce.com	21	AppExchange API for Enterprise version 21.0	✓	✓	✓	✓
Siebel	7.5.2	MS SQL Server Client ^(*) - (only Windows) DB2 Connect Enterprise or Personal edition or Oracle Net Client ^(*) - (Windows, Linux, AIX, Solaris)	✓	✓	✓	✓
	7.7		✓	✓	✓	✓
	8.0		✓	✓	✓	✓
	8.1		✓	✓	✓	✓

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Application Connectivity support by Operating Systems

(*1) SAP BusinessObjects Data Services with JD Edwards Applications

If the SAP BusinessObjects Data Services server is on Windows, JDE One World is only supported with source database Microsoft SQL Server, Oracle, and DB2 on AS/400.

If the SAP BusinessObjects Data Services server is on Windows, and JDE World is using DB2 on AS/400, connection must be made through iSeries Access.

(*2) SAP BusinessObjects Data Services with PeopleTools

PeopleSoft 8 support is implemented for Oracle only. The version of the Oracle client connecting to the underlying PeopleSoft database must be supported by SAP BusinessObjects Data Services.

PeopleTools versions 8.40 and 8.49 were used in certification testing.

Certification for PeopleSoft is based on the version of PeopleTools used to connect to the PeopleSoft Applications. Please check with the vendor for PeopleSoft application versions which are compatible with the listed versions of PeopleTools.

(*3) SAP BusinessObjects Data Services with JD Edwards Applications Services with SAP NetWeaver Business Warehouse

Loading SAP NetWeaver Business Warehouse (BW) 7.0 is supported only for SAP BW 3.x data sources which can exist in BW 7.0 in emulation mode. Support for native SAP NetWeaver BW 7.0 objects is only provided from BW 7.3 onwards. Extracting from SAP BW through Open Hub is only supported for SAP BW 7.01 Patch Level 003 and above, not for older versions.

The RFC SDK and JCO libraries needed for SAP BW loading and extraction are bundled with the Data Services install. Please refer to the Installation Guide for details on settings for the JCO library to be included in the system path.

(*4) SAP GUI Client

SAP GUI 7.10 is the recommended version of SAP GUI. However since SAP GUI is backwards compatible, multiple versions are supported. Please refer to [SAP Note 30460](#), which provides detailed compatibility information.

(*5) SAP BusinessObjects Data Services with Siebel

Siebel support is implemented for Microsoft SQL Server, DB2, and Oracle only. The version of the database client connecting to the underlying Siebel database must be supported by SAP BusinessObjects Data Services.

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Text Data Processing Support by Operating Systems

	Windows	Linux	AIX	Solaris
Language ^(*1)				
Arabic	✓	✓	✓	✓
Bokmal	✓	✓	✓	✓
Catalan	✓	✓	✓	✓
Croatian	✓	✓	✓	✓
Czech	✓	✓	✓	✓
Danish	✓	✓	✓	✓
Dutch	✓	✓	✓	✓
English	✓	✓	✓	✓
Farsi	✓	✓	✓	✓
French	✓	✓	✓	✓
German	✓	✓	✓	✓
Greek	✓	✓	✓	✓
Hebrew	✓	✓	✓	✓
Hungarian	✓	✓	✓	✓
Italian	✓	✓	✓	✓
Japanese	✓	✓	✓	✓
Korean	✓	✓	✓	✓
Nynorsk	✓	✓	✓	✓
Polish	✓	✓	✓	✓
Portuguese	✓	✓	✓	✓
Romanian	✓	✓	✓	✓
Russian	✓	✓	✓	✓
Serbian	✓	✓	✓	✓
Simplified Chinese	✓	✓	✓	✓
Slovak	✓	✓	✓	✓
Slovenian	✓	✓	✓	✓
Spanish	✓	✓	✓	✓
Swedish	✓	✓	✓	✓
Thai	✓	✓	✓	✓
Traditional Chinese	✓	✓	✓	✓
Turkish	✓	✓	✓	✓

(*1) Support all text formats that Data Services can read.

More details on language support for Text Data Processing can be found in the Language Reference Guide on <http://help.sap.com/bods>

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Message Client Library Support by Operating Systems

			Windows	Linux	AIX	Solaris
Message Client Library Support		Compiler Version				
C++ API	Visual Studio 2005 SP1 Security patches: - Microsoft Visual Studio 2005 Professional Edition - ENU Service Pack 1 (KB926601) - Security Update for Microsoft Visual Studio 2005 Professional Edition - ENU (KB937061) - Security Update for Microsoft Visual Studio 2005 Professional Edition - ENU (KB971023)		✓	x	x	x
	g++ (GCC) 4.1.2 20080704 (Red Hat 4.1.2-44)		x	✓	x	x
	xlc.aix50.rte 10.1.0.0 COMMITTED XL C/C++ Runtime for AIX 5.3 (actual build machine info) IBM XL C/C++ Enterprise Edition V10.1 for AIX		x	x	✓	x
	CC: Sun C++ 5.9 SunOS_sparc Patch 124863-01 2007/07/25		x	x	x	✓
JAVA API	JDK 1.5.0.xx	JAVA version 5.0	✓	✓	✓	✓

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Other connectivity support by Operating Systems

				Windows		Linux		AIX		Solaris	
				Source	Target	Source	Target	Source	Target	Source	Target
	Data Source	Version	Client								
Mainframe Connectivity	Attunity	5	Attunity Connect 5.0	✓	✓	x	x	x	x	x	x
		5.1	Attunity Connect 5.1	✓	✓	✓	✓	✓	✓	✓	✓
		5.3	Attunity Connect 5.3	✓	✓	✓	✓	✓	✓	✓	✓
Technology Connectivity	HTTP/HTTPS	1	N/A	✓	✓	✓	✓	✓	✓	✓	✓
		1.1	N/A	✓	✓	✓	✓	✓	✓	✓	✓
	JMS	J2EE 1.5	N/A	✓	✓	✓	✓	✓	✓	✓	✓
	SOAP ⁽¹⁾	1.1	N/A	✓	✓	✓	✓	✓	✓	✓	✓
	Success Factors	N/A	N/A	✓	✓	✓	✓	✓	✓	✓	✓
WSDL ⁽¹⁾	1.1	N/A	✓	✓	✓	✓	✓	✓	✓	✓	
File Connectivity	Text files (delimited and fixed width)	N/A	N/A	✓	✓	✓	✓	✓	✓	✓	✓
	COBOL	ANSI 85	N/A	✓	x	✓	x	✓	x	✓	x
	Excel ⁽²⁾	97, 2000, XP, 2003, 2007, 2010	N/A	✓	x	✓	x	✓	x	✓	x
	XML ⁽³⁾	1	N/A	✓	✓	✓	✓	✓	✓	✓	✓

(*1) SAP BusinessObjects Data Services uses Apache Axis version 1.4 for its Web Services support. Axis version 1.4 provides support for WSDL version 1.1 and SOAP version 1.1 with the exception of the Axis servlet engine.

(*2) Microsoft Access Database Engine 2010 Redistributable is required. Refer to “[SAP BusinessObjects Data Services Installation Guide for Windows](#)” for more information.

(*3) SAP BusinessObjects Data Services supports XML Schema version 1.0 as defined by W3c.org.

APPENDIX

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Disk Space Requirements for Referential Data & Cleansing Packages

Referential Data	Drive Space
U.S. Directory	836MB
U.S. Z4 Change	200 MB
U.S. eLOT	530MB
U.S. DPV (*1)	690MB
U.S. LACSLink (*1)	465MB
U.S. Suitelink	1GB
Australia Address Directory	4.2GB
Canada Address Directory	120 MB
China Address Directory	490MB
France Address Directory	2.5 GB
Germany Address Directory	2.2 GB
India Address Directory	385MB
Italy Address Directory	1.3 GB
Japan Address Directory	1.1 GB
New Zealand Directory	1 GB
Spain Address Directory	1 GB
U.K. Address Directory	11.1 GB
All Other International Directories (combined)	7.5GB
U.S. Centroid Geo - Tele Atlas	730MB
U.S. Address Geo - Tele Atlas	5.2GB
U.S. Address Geo - NAVTEQ	76GB
U.S. Address Geo Parcel - NAVTEQ	121GB
Australia Geo Parcel - NAVTEQ	5GB
Canada Geo Directory – NAVTEQ	4.4GB
France Geo Directory – NAVTEQ	3.9GB
Germany Geo Directory – NAVTEQ	5.3GB
Switzerland Geo Directory - NAVTEQ	490MB
U.K. Geo Directory – NAVTEQ	2.6GB

Cleansing Package	Drive Space
All Language Person_Firm data	2.9GB

(*1) If caching of DPV and LACSLink directories on UNIX platforms, it is recommended that "Data Segment Size" limits are set above 1 GB, especially with the use of multiple threads. Users can run "ulimit -d" to see what the "Data Segment Size" value is currently set to, "ulimit -d <value>" to set it to a new value and "ulimit -d unlimited" to allow the value to grow.

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Patch Level Requirements

Platform /OS	Architecture	Patch	Requirement
Windows 2003	x86	KB941105 for 32-bit	Recommended ⁽¹⁾
Windows 2003	x64	WindowsXP-KB941105-v2-x64-ENU.exe.	Critical ⁽¹⁾
Windows 2003, 2008	x64	vcredist_x64.exe	Critical ⁽²⁾
Linux (all)	x86_64	X Window, OpenGL libraries ⁽⁴⁾	Critical ⁽³⁾
AIX (all)	POWER	X Window, OpenGL libraries	Critical ⁽³⁾
AIX 5.3 TL9 SP3	POWER	IBM C++ Runtime Environment Components For AIX => xIC.aix50.rte 10.1.0.3	Minimum
AIX 7.1 TL2 SP1	POWER	IBM C++ Runtime Environment Components For AIX => xIC.aix61.rte 10.1.0.3	Minimum
Solaris 10	SPARC	X Window, OpenGL libraries	Critical ⁽³⁾

Critical patches are required for successful installation of Data Services.

(1) Kernel patch for runtime issue

(2) vcredist_x64.exe must be installed on the system before launching IPSInstall.exe to install Information platform services. The redistributed library can be found Information platform services package location `<top package level>\dunit\tp.microsoft.vcredist-8.0-core-64\actions`

(3) X Window and OpenGL libraries are required for loading the Data Services license manager. Missing libraries may stop the Data Services installation with an invalid key error. To find the missing libraries, run the following command from the CD root:

```
ldd dunit/product.dataservices64-4.0-core-32/actions/utilities/LicenseManager
```

(4) If you have missing libraries on your system, the dependent libraries can be found as operating system patches. As an example on Linux, the respective patches are:

- Linux RedHat 5:
 - X Window: libX11-1.0.3-8.el5 or higher.
 - OpenGL: mesa-libGL-6.5.1-7.2.el5, mesa-libGLU-6.5.1-7.2.el5
- SuSE 10:
 - X Window: xorg-x11-libs-6.9.0-50.58
 - OpenGL: Mesa-6.4.2-19.12, Mesa-6.4.2-19.12
- SuSE 11:
 - X Window: xorg-x11-libs-7.4-8.18
 - OpenGL: Mesa-7.2-19.4

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Minimum Hardware Requirements [1/2]

Single machine

The following is total requirements to install all BI/Ips and Data Services products in one system:

■ Minimum Hardware Requirements

- 4 processors (or 2 dual core processors) with minimum 2 GHz recommended
- 8 GB RAM Recommended

■ Disk Space Requirements (not including Operating System)

- 20 GB for default installation with English language only installed
- 23 GB for default installation with all languages

Distributed Landscape

Note: you must plan the hardware requirements to install Data Services and its dependencies as specified in each Data Services component. Windows/Linux support is limited strictly to Intel/AMD chipsets. SAP BusinessObjects Data Services software for Windows/Linux is not warranted or supported for use on other chipsets. The application is supported running on 64-bit versions of Windows/Linux running on x64 CPUs made by AMD and Intel.

SAP BusinessObjects BI: For the minimum hardware requirement of BI 4.0 FP3, refer to [PAM of BI 4.0 FP3](#).

Information platform services (Ips)

■ Minimum Screen Resolution: [1024] x [768] is recommended

■ Minimum Hardware Requirements

- 2 processors with minimum 2 GHz recommended
- 4 GB RAM Recommended

■ Recommended Disk Space Requirements

- 5 GB for default installation with English language only installed
- 8 GB for default installation with all languages
- Additional requirement for web application deployment for Information platform services:
 - The deployment of web applications to a web application server with the WDeploy tool requires at least 4 GB of RAM (8 GB for SAP NetWeaver AS Java 7.2), and 15 GB of free disk space, plus a minimum 5 GB of free space on the drive that hosts the temporary folder defined with the %TEMP% environment variable, for the deployment of web applications. This is in addition to any other requirements of the web application server or any other servers or services installed on the host.

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Minimum Hardware Requirements [2/2]

Data Services Designer (supported on Windows only)

- 1 processor with a minimum of 1 GB RAM (4 GB recommended)
- 4 GB free disk space

Data Services Job Server

- 2 processors with a minimum of 2 GB RAM (8 GB recommended)
- 4 GB free disk space
- Recommended minimum pageable cache directory size: 4 GB (8 GB recommended)
- If you use Data Quality functionality, you must plan the additional hardware requirements for referential data, including address and geocoding directories, as well as cleansing packages. The requirements are listed in the following sections:
 - Disk Space Requirements for Referential Data should be installed on a local disk drive (not a network drive for best performance)
 - Disk Space Requirements for Cleansing Packages

Data Services Management Console

- 1 processor with at least 512 MB RAM (1 GB recommended)
- 150 MB free disk space

Note: Data Services Management Console must be deployed with SAP BusinessObjects BI Web Application component.

Data Services Adaptive Processing Server (APS) Services

- 1 processor with a minimum of 2GB free RAM
- 1 GB free disk space (plus additional disk space for referential data, 2.71 to 9.34 GB)
- Data Services APS Services requires SAP BusinessObjects BI or Information platform services to deploy. See above to plan for additional hardware requirements.

Compatible Address and Geocode Directories

- US Address Directories: SBOP ADDR US 2009- Current
- International Address Directories: SBOP ADDR *country* 4.x
- International Geocode Directories: SBOP GEO *country* 4.x

Compatible Cleansing Packages

- SBOP DQM Cleansing Packages 4.1

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Other Tools Support by Operating Systems

Admin Platform (Windows)

- Citrix Presentation Server 4.5
- Microsoft Remote Desktop Services

Admin Platform (Linux)

- Citrix Novell XEN for SLES ^(*)
- Citrix RedHat Xen for RedHat OS ^(*)
- Citrix Citrix XenServer 5.0

^(*) Para-virtualization only. Embedded within host operating system

Virtualization support (Windows, Linux, AIX, Solaris)

For SAP's strategy on virtualization see [SAP Note 1492000](#)

Simple Network Management Protocol (Windows, Linux, AIX, Solaris)

- SNMP version 1
- SNMP version 2c
- SNMP version 3 (except encryption)

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