

# SAP BusinessObjects Edge BI 3.1, Version with Data Management for Linux – Supported Platforms



## **Applies to:**

SAP BusinessObjects Edge BI 3.1, version with data management for Linux

## **Summary**

Supported Platforms Documented for SAP BusinessObjects Edge BI 3.1

**Company:** SAP

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## Introduction

This document contains information specific to platforms and configurations for the SAP BusinessObjects Edge BI 3.1, version with data management release. For the latest information on updates to this document, please visit Business Objects Articles at: <https://www.sdn.sap.com/irj/sdn/businessobjects-articles>.

### NOTE:

Anything that is highlighted using red font indicates that it is an update, addition or correction made after the original release of this document.

## Products

### Desktop

Desktop products are only available on Windows. Please go to our [supported platforms](#) web site and refer to the platforms document corresponding to this operating system for a detailed list of the supported languages and platforms.

### Server

- SAP BusinessObjects Edge BI 3.1 (Server Components)
- Data Services 3.1 SP1 (Server Components)

### Languages

- Chinese Simplified
- Chinese Traditional
- Danish
- Dutch
- English (1)
- French
- German
- Italian
- Japanese
- Korean
- Norwegian
- Polish
- Portuguese (Brazil)
- Spanish
- Swedish
- Russian
- Thai

(1) Data Services 3.1 SP1 is supported in English only.

## Supported Operating Systems

- Red Hat Linux Enterprise Server 4
- Red Hat Linux Advanced Server 4
- Red Hat Linux Enterprise Server 5
- Red Hat Linux Enterprise Advanced Platform Server 5
- SuSE Linux Enterprise Server 9 SP3
- SuSE Linux Enterprise Server 10

## Minimum Hardware Requirements for SAP BusinessObjects Edge BI 3.1, version with data management (excluding Data Services 3.1 SP1)

- 2.0 GHz Pentium 4-class processor
- 2 GB RAM
- 5.5 GB hard drive for SAP BusinessObjects Edge BI 3.1, version with data management complete install

### Note 1:

SAP BusinessObjects Edge BI 3.1, version with data management software is supported running on 32-bit versions of Linux running on x86 (32-bit) and x64 CPUs (64-bit) made by AMD and Intel if it can reference the 32-bit operating system libraries as well as the 32-bit database and application client libraries .

SAP BusinessObjects Edge BI 3.1, version with data management software is supported running on 64-bit versions of Linux running on x64 CPUs made by AMD and Intel if it can reference the 32-bit operating system libraries as well as the 32-bit database and application client libraries .

### Note 2:

Additional languages can be installed in SAP BusinessObjects Edge BI 3.1, version with data management via Language Pack Install. On average, an additional 0.3 GB hard disk space is required per language install.

## Minimum Hardware Requirements for BusinessObjects Data Services 3.1 SP1 XI 3.1 SP1

Windows support is limited strictly to AMD/Intel chipsets. BusinessObjects Data Services 3.1 SP1 software for Windows is not warranted or supported for use on other chipsets.

- BusinessObjects Data Services 3.1 SP1 is supported running on 32-bit versions of Windows running on x86 and x64 CPUs made by AMD and Intel.
- BusinessObjects Data Services 3.1 SP1 is supported running on 64 -bit versions of Windows running on x64 CPUs made by AMD and Intel if it can reference the 32-bit operating system libraries as well as the 32-bit database and application client libraries.

Linux support is limited strictly to AMD/Intel chipsets. BusinessObjects Data Services 3.1 SP1 software for Linux is not warranted or supported for use on other chipsets. BusinessObjects Data Services 3.1 SP1 software for Linux can be run on Linux 64-bit operating systems on AMD/Intel chipsets if it can reference the 32-bit operating system libraries as well as the 32-bit database and application client libraries.

## Data Services 3.1 SP1 Designer

- Pentium processor with a minimum of 512 MB RAM (1 GB recommended) and 2GB free disk space
- Screen resolution of 1024 x 768 pixels with 16-bit or 65536 colors recommended (minimum 256 colors)
- Operating system paging file with a minimum setting of 1GB (2 GB recommended)

### Data Services 3.1 SP1 Job Server

- Pentium processor (dual processor with minimum 1 GHz recommended) with a minimum of 1GB RAM (2 GB recommended) RAM and 1.6 GB free disk space
- 2 GB virtual memory
- Recommended minimum pageable cache directory size: 2GB

### Data Services 3.1 SP1 Access Server

- Pentium processor (dual processor with minimum 1 GHz recommended) with at least 512 MB RAM (1 GB recommended)
- 1 GB virtual memory (recommended 2GB)

### Data Services 3.1 SP1 Management Console

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

### Data Services 3.1 SP1 Address Server

- Pentium processor (minimum dual core 2GHz) with a minimum of 1GB (2GB recommended) free RAM
- 1 GB free disk space (plus additional disk space for referential data, 2.71 to 9.34 GB)
- Address Server and referential data should be installed on a local disk drive (not a network drive) for best performance

### Disk Space Requirements for Referential Data

Referential Data	Drive Space	Comments
U.S. Directory	810 MB	
U.S. Z4 Change	209 MB	
U.S. eLOT	494 MB	
U.S. Centroid Geo (2006-2007) - TeleAtlas	708 MB	
U.S. Address Geo - Teleatlas	4.4 GB	
U.S. Centroid Geo – Navteq	3.2 GB	
U.S. Address Geo - Navteq	620 MB	
Canada Address Directory	42.6 MB	
Australia Address Directory	203 MB	
Japan (Native Script) Address Directory	22 MB	This is the directory for the addressing engine which handles native Japanese writing systems.

Other International (All World) - Minimum	2.71 GB	This is minimum directory requirements for the Global Address Cleanse transform (ga_country.dir, ga_loc12_gen.dir, ga_loc12_gen_nogit.dir, ga_loc34_gen.dir, ga_region_gen.dir).
Other International (All World) - Maximum	9.37 GB	There are many other countries and all are purchased individually. This is the space if all are purchased.

### Repository Space Requirements for Data Cleansing Packages

Language	Pre-Install Package (MB)	Oracle Repository Space (MB)	SQL Server Repository Space (MB)	DB2 Repository Space (MB)	MySQL Repository Space (MB)
Arabic	28	45	145	30	45
Benelux	250	280	213	210	285
English	355	590	2020	450	600
Danish	45	55	38	35	55
Dutch	97	110	325	75	110
French	80	85	250	60	80
German	160	370	313	275	360
Italian	65	75	235	55	75
Portuguese	75	85	285	60	80
Spanish	160	185	600	130	180
Swedish	25	30	25	30	30
Swiss	410	380	445	N/A*	455

\*: the Swiss Cleansing Package is not supported on DB2. See Known Issue ADAPT01136144.

### Temporary Disk Space for Data Cleansing Package Installation<sup>(1)</sup>

Language	Oracle (MB)	SQL Server (MB)	DB2 (MB)	MySQL (MB)
Arabic	75	28	478	26
Benelux	489	360	2700	173
English	1100	420	6920	390
Danish	83	61	500	29

Dutch	181	69	972	64
French	143	54	781	50
German	695	500	4160	421
Italian	141	52	895	390
Portuguese	125	48	771	44
Spanish	316	120	1920	111
Swedish	45	35	265	20
Swiss	933	675	5440	326

(1) This space is only needed temporarily during installation within the %LINK\_DIR%/DataQuality/datacleanse/ directory. They will be deleted at the end of the installation process.

#### Minimum Patch Level for Red Hat 4

Required minimum operating system install plus:

- compat-libstdc++-33-3.2.3-47.3.i386.rpm

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 5

Required minimum operating system install plus:

- RHBA-2007:0619-3

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 SLES 9

Required minimum operating system install plus:

- XFree86-4.3.99.902-43.22 (XFree86)
- XFree86-libs-4.3.99.902-43.22 (XFree86 Libs)

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 SLES 10

No additional components outside the minimum.

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

#### Patch Level for Linux for Data Services 3.1 SP1:

Critical patches are required for successful installation of Data Services 3.1 SP1. Non-critical patches are recommended, but not required.

Platform / OS	Achitecture	Mode	Patch	Requirement



Linux SuSE-9	x86	32-bit & 64-bit	libgcc43- 4.3.2_20080703-6.1	Critical
Linux SuSE-9 SP1	x86	32-bit & 64-bit	libstdc++43- 4.3.2_20080703-6.1	Critical
Linux (all)	x86	32-bit & 64-bit	X Window, OpenGL libraries	Critical <sup>(1)</sup>

### (1) XWindow and OpenGL libraries

X Window and OpenGL libraries are required for loading the Data Services 3.1 SP1 license manager. Missing libraries may stop the Data Services 3.1 SP1 installation with an invalid key error. To find the missing libraries, run the following command from the CD root:

```
ldd setup/utilities/license/libfl_qt-mt333R2_32.so.3
```

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 4:
  - X Window: xorg-x11-libs-6.8.1-23.EL or higher.
  - OpenGL: xorg-x11-Mesa-libGL-6.8.2-1.EL.13.20, xorg-x11-Mesa-libGLU-6.8.2-1.EL.13.20
- 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

### Supported Locales

Language	Locales
English	en_US.utf8
French	fr_FR.utf8
Japanese	ja_JP.utf8
Simplified Chinese	zh_CN.utf8
German	de_DE.utf8
Italian	it_IT.utf8
Spanish	es_ES.utf8
Dutch	nl_NL.utf8
Korean	ko_KR.utf8
Traditional Chinese	zh_HK.utf8
	zh_TW.utf8
Swedish	sv_SE.utf8

Language	Locales
Portuguese	pt_BR.utf8
Danish	da_DK.utf8
Norwegian	no_NO.utf8
Polish	pl_PL.utf8
Russian	ru_RU.utf8
Thai	th_TH.utf8

Please consult your Linux distribution locale documentation on how to install these on your operating system.

### Supported Application Servers

Application Servers	JDK
SAP Web Application Server 7 (1)	JDK 1.4.2_xx
Tomcat 5.5	JDK 1.5.0_xx

(1) Not supported for Web Services and Data Services 3.1 SP1.

**Note:** Native 64-bit Java Application Servers are supported.

### Application Server Incremental Release Support Policy

Specified application servers versions have been successfully tested by Business Objects. 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 Business Objects. 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. Business Objects tests and supports any \_xx release installed with a given application server.

### HTTP Servers

Any supported by Application Server vendor.

### Supported Portal Servers

- Oracle Portal Server 10g R3 (10.1.4) (JSR 168)
- WebLogic Portal Server 9.2.x (JSR168)
- WebLogic Portal Server 10.0.x (JSR168)
- WebSphere Portal 6.0.x.x (JSR 168)

### Portal Server minor release support policy

Specified portal servers versions have been successfully tested by Business Objects. Minor/incremental releases of the specified versions defined by the last number (or two in the case of Websphere) in the portal

server version number will be supported as they are made available, but all may not have been tested by BO. Exceptions in support will be documented.

### Supported Browsers (excluding Data Services 3.1 SP1)

Browser OS	Browser	JVM
Apple Mac OS X	Firefox 3.0	Apple 1.5.0_xx Apple 1.6.0_xx
	Firefox 2.0	Apple 1.5.0_xx Apple 1.6.0_xx
	Safari 3.0	Apple 1.5.0_xx Apple 1.6.0_xx
Microsoft Windows	Firefox 3.0	Sun 1.5.0_xx Sun 1.6.0_02+
	Firefox 2.0	Sun 1.5.0_xx Sun 1.6.0_02+
	IE 6.0 SP2	Sun 1.5.0_xx Sun 1.6.0_02+
	IE 7.0	Sun 1.5.0_xx Sun 1.6.0_02+

### SVG and Flash support for Dashboard and Analytics

- SVG is not supported by Dashboard and Analytics for Firefox.
- SVG version 3.0.3 and above supported for Internet Explorer.
- Flash version 7 and above supported for Internet Explorer and Firefox.

### Supported Browsers for Data Services 3.1 SP1

Browser OS	Browser	Plug-In
Windows	Internet Explorer 6.0 SP2	Macromedia Flash Player 7.0
	Internet Explorer 7.0	Macromedia Flash Player 7.0

### Data Source Middleware Support

SAP BusinessObjects Edge Suite products that are compiled as 32-bit native binary are designed to use 32-bit data source middleware connectivity. Unless otherwise specified in the Supported Platforms, 64-bit middleware connectivity is not supported.

### CMS Database (Repository) & Audit Databases

Provider Name	Data Connector
IBM DB2/UDB for NT/Unix 8.2	DB2 Client 8.2
IBM DB2/UDB for NT/Unix/Linux 9.1	DB2 Client 9.1

Provider Name	Data Connector
IBM DB2/UDB for NT/Unix/Linux 9.5	DB2 Client 9.5
MySQL AB 5.0	MySQL C-API
Oracle 11g R1 (11.1)	Oracle Net Client 10.2 (1) (2)
Oracle 10g R1 (10.1)	Oracle Net Client 10.1 (1)
Oracle 10g R2 (10.2)	Oracle Net Client 10.2 (1)
Oracle 9.2	Oracle Net Client 9.2
Sybase Adaptive Server Enterprise 15	Sybase Open Client 15

- (1) Oracle Real Application Cluster (RAC) is supported.
- (2) For more information about support of Oracle 11g R1 with Oracle Net Client 10.2, please refer to the Release Notes.

### Dashboard and Analytics Repository Databases

Provider Name	Data Connector
IBM DB2/UDB for NT/Unix 8.2	DB2 Client 8.2
IBM DB2/UDB for NT/Unix/Linux 9.1	DB2 Client 9.1
IBM DB2/UDB for NT/Unix/Linux 9.5	DB2 Client 9.5
IBM DB2/UDB for zSeries 7	DB2 Client 8.1
IBM DB2/UDB for zSeries 8	DB2 Client 8.2
NCR Teradata V2R6	NCR Teradata ODBC 3.05 (TTU 8.1)
NCR Teradata V2R6.1	NCR Teradata ODBC 3.06 (TTU 8.2)
NCR Teradata V2R6.2	NCR Teradata ODBC 3.06 (TTU 8.2)
Teradata V12.0	Teradata ODBC TU 12.00.00.1
	Teradata JDBC TTU 12.00.00.1
Oracle 11g R1 (11.1)	Oracle Net Client 11 R1 (1)
Oracle 10g R1 (10.1)	Oracle Net Client 10.1 (1)
Oracle 10g R2 (10.2)	Oracle Net Client 10.2 (1)
Oracle 9.2	Oracle Net Client 9.2
Sybase Adaptive Server Enterprise 12.5	Sybase Open Client 12.5
Sybase Adaptive Server Enterprise 15	Sybase Open Client 15

- (1) Oracle Real Application Cluster (RAC) is supported.

## Web Intelligence, Desktop Intelligence, Dashboard and Analytics Data Sources

Provider Name	Data Connector	Unicode Support
<b>OLAP</b>		
Hyperion Essbase Server 7.0 (1)	Hyperion Essbase API 7.0	
Hyperion Essbase Server 7.1.x (1)	Hyperion Essbase API 7.1.x	
Hyperion System 9	Hyperion Essbase client 9.0	
	Hyperion Essbase client 9.2	
	Hyperion Essbase client 9.3	
<b>RDBMS</b>		
Generic JDBC Data Sources	Java 1.5 (5)	
Generic ODBC Data Sources	UNIX ODBC or DataDirect ODBC manager	
BusinessObjects Data Federator 3.5 (XR2)	Data Federator JDBC driver v3.5 (1) (5)	
HP Neoview 2.3.1	HP Neoview ODBC Driver 2.3.1 (4)	
HP Neoview 2.2	HP Neoview ODBC Driver 2.2 (4)	
IBM DB2/UDB for NT/Unix 8.2	DB2 Client 8.2	Yes
	DB2 Universal JDBC Driver (5)	Yes
IBM DB2/UDB for NT/Unix/Linux 9.1	DB2 Client 9.1	Yes
	DB2 Universal JDBC Driver (5)	Yes
IBM DB2/UDB for NT/Unix/Linux 9.5	DB2 Client 9.5	
	DB2 Universal JDBC Driver (5)	
IBM Informix Dynamic Server 10.0	IBM Informix ODBC SDK 2.90	
IBM Informix Dynamic Server 7.31	IBM Informix ODBC SDK 2.81	
IBM Informix Dynamic Server 9.4	IBM Informix ODBC SDK 2.90	
IBM Informix XPS 8.40	IBM Informix ODBC SDK 2.81	

Provider Name	Data Connector	Unicode Support
IBM Informix XPS 8.50	IBM Informix ODBC SDK 2.90	
IBM Red Brick Decision Server 6.3	IBM Red Brick ODBC 6	
Microsoft SQL Server 2000 SP4	DataDirect ODBC v5.0 for MS SQL (2)	
Microsoft SQL Server 2005 RTM/SP1/SP2	DataDirect ODBC v5.1 for MS SQL (2)	Yes
	JDBC SQL Server 2005 (1) (5)	Yes
Microsoft SQL Server 2008	Microsoft JDBC 1.2 for SQL Server 2005 (2) (5)	
MySQL AB 5.0	MySQL AB ODBC 3.51.12	
	MySQL AB JDBC 5.0 (1) (5)	
NCR Teradata V2R6	NCR Teradata ODBC 3.05 (TTU 8.1)	
NCR Teradata V2R6.1	NCR Teradata ODBC 3.06 (TTU 8.2)	
	NCR Teradata JDBC 3.04 (TTU 8.2) (1) (5)	
NCR Teradata V2R6.2	NCR Teradata ODBC 3.06 (TTU 8.2)	Yes (3)
	NCR Teradata JDBC 3.04 (TTU 8.2) (1) (5)	Yes
Teradata V12.0	TTU12.0 Teradata ODBC Driver 12.00.00.01	
	TTU12.0 Teradata JDBC Driver 12.00.00.01	
Netezza NPS Server 3.0	Netezza ODBC 3.0 (1)	
Netezza NPS Server 3.1	Netezza ODBC 3.1 (1)	
	Netezza JDBC Access (1) (5)	
Netezza NPS Server 4.0	Netezza ODBC 4.0 (1)	
	Netezza JDBC Access (3)	
Oracle 11g R1 (11.1)	Oracle Net Client 11gR1 (11.1) (4) (6)	Yes
	Oracle JDBC 11g R1 (11.1.0.6) (5) (6)	Yes

Provider Name	Data Connector	Unicode Support
Oracle 10g R1 (10.1)	Oracle Net Client 10.1 (6)	Yes
	Oracle JDBC 10g R1 (10.1.0.3) (5) (6)	Yes
Oracle 10g R2 (10.2)	Oracle Net Client 10.2 (6)	Yes
	Oracle JDBC 10g R2 (10.2.0.1) (5) (6)	Yes
Oracle 9.2	Oracle Net Client 9.2	Yes
	Oracle JDBC 9i (9.2.0.5) (5)	Yes
Progress OpenEdge 10.1B	OpenEdge 10.1B JDBC (1) (5)	
Sybase Adaptive Server Enterprise 12.5	Sybase Open Client 12.5	
	jConnect JDBC driver 6.05 (1) (5)	
Sybase Adaptive Server Enterprise 15	Sybase Open Client 15	
	jConnect JDBC driver 6.05 (1) (5)	
Sybase Adaptive Server IQ 12.6	Sybase ODBC 9 for Adaptive Server IQ 12.6	
Sybase Adaptive Server IQ 12.7	Sybase ODBC 9 for Adaptive Server IQ 12.7	
Sybase SQL Anywhere (ASA) 10	Sybase ODBC 9 for Adaptive Server IQ 12.7 (1)	
	Sybase SQL Anywhere ODBC Driver 10 (1)	

- (1) Not supported for Dashboard and Analytics.  
(2) DataDirect drivers for Desktop Intelligence, Dashboard and Analytics, and Web Intelligence are not provided by BusinessObjects.  
(3) Unicode is supported if you follow the workaround found in knowledge base article [7997435](#).  
(4) Not supported for Predictive Analysis.  
(5) Not supported for Desktop Intelligence.  
(6) Oracle Real Application Cluster (RAC) is supported.

### Crystal Reports Reporting Data Sources

Provider Name	Data Connector	Unicode Support
Generic JDBC Data Sources	Java 1.5	Yes
Generic ODBC Data Sources	ODBC	Yes
HP NeoView 2.2	HP NeoView ODBC 2.2	

Provider Name	Data Connector	Unicode Support
HP NeoView 2.3.1	HP NeoView ODBC 2.3.1	
IBM DB2/UDB for iSeries 5.3	DB2 Client 8.2	Yes
	IBM iSeries Access (JDBC) 5.3	Yes
IBM DB2/UDB for iSeries 5.4	DB2 Connect 9.1	
	IBM iSeries Access (ODBC) 5.4	
IBM DB2/UDB for NT/Unix 8.2	DB2 Client 8.2	Yes
	DB2 JDBC 8.2	Yes
IBM DB2/UDB for NT/Unix/Linux 9.1	DB2 Client 9.1	Yes
	DB2 JDBC 9.1	Yes
IBM DB2/UDB for NT/Unix/Linux 9.5	DB2 Client 9.5	
	DB2 Universal JDBC Driver	Yes
IBM DB2/UDB for zSeries 7	DB2 Client 8.1	Yes
	DB2 ODBC Client 8.1	Yes
IBM DB2/UDB for zSeries 8	DB2 Client 8.2	Yes
IBM Informix Dynamic Server 10.0	DataDirect ODBC 5.3 (1)	Yes
IBM Informix Dynamic Server 9.4	DataDirect ODBC 5.3 (1)	Yes
Microsoft SQL Server 2000 SP4	JDBC SQL Server 2000	Yes
	DataDirect ODBC 5.3 for MS SQL (1)	Yes
Microsoft SQL Server 2005 RTM/SP1/SP2	JDBC SQL Server 2005	Yes
	DataDirect ODBC 5.3 for MS SQL (1)	Yes
Microsoft SQL Server 2008	JDBC SQL Server 2005	Yes
MySQL AB 5.0	MySQL AB ODBC 3.51	Yes
	MySQL AB JDBC 5.0	Yes
NCR Teradata V2R6	NCR Teradata ODBC 3.05 (TTU 8.1)	Yes
NCR Teradata V2R6	NCR Teradata ODBC 3.06 (TTU 8.2)	Yes
	NCR Teradata JDBC 3.04 (TTU 8.2)	



Provider Name	Data Connector	Unicode Support
NCR Teradata V2R6.2	NCR Teradata ODBC 3.06 (TTU 8.2)	Yes
	NCR Teradata JDBC 3.04 (TTU 8.2)	
Teradata V12.0	Teradata ODBC Driver TTU 12.00.00.1	Yes
	Teradata JDBC Driver TTU 12.00.00.1)	Yes
Netezza NPS Server 2.5	Netezza ODBC 2.5	Yes
Netezza NPS Server 3.0	Netezza ODBC 3.0	Yes
Netezza NPS Server 3.1	Netezza ODBC 3.1	Yes
	Netezza JDBC Access	
Netezza NPS Server 4.0	Netezza ODBC 4.0	Yes
	Netezza JDBC Access	Yes
Oracle 11g R1 (11.1)	JDBC Oracle 11.1 (2)	Yes
	Oracle Net Client 11.1 (2)	Yes
Oracle 10g R1 (10.1)	JDBC Oracle 10.1 (2)	Yes
	DataDirect ODBC 5.3 (1) (2)	Yes
	Oracle Net Client 10.1 (2)	Yes
Oracle 10g R2 (10.2)	JDBC Oracle 10.2 (2)	Yes
	DataDirect ODBC 5.3 (1) (2)	Yes
	Oracle Net Client 10.2 (2)	Yes
Oracle 9.2	JDBC Oracle 9.2	Yes
	DataDirect ODBC 5.3 (1)	Yes
	Oracle Net Client 9.2	Yes
Sybase ASE 12.5	JDBC Sybase 12.5	Yes
	DataDirect ODBC 5.3 (1)	Yes
	Sybase Open Client 12.5	
Sybase Adaptive Server Enterprise 15	Sybase Open Client 15	
<b>Technology</b>		
JavaBean	JDK 1.5	Yes
XML	JDK 1.5	Yes

Provider Name	Data Connector	Unicode Support
<b>Crystal Reports Reporting Data Sources Supported for Scheduling Only</b>		
Text	DataDirect ODBC 5.1 (1)	

- (1) DataDirect drivers for Crystal Reports are available from Business Objects.  
(2) Oracle Real Application Cluster (RAC) is supported.

### Generic ODBC, OLEDB and JDBC: Limitation

(Supported for Crystal Reports Only)

Database server, client and ODBC/JDBC/OLEDB driver used must support multiple threads.

Generic JDBC: 3rd Party JDBC Type 4-compliant drivers may potentially have issues as not all combinations have been tested, but are supported for \*relational database access\* as a general rule.

Generic ODBC: 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.

### Scheduled and On-demand Reporting

'Scheduling Only' indicates that the data connectivity is assumed to be single-threaded. Customers are recommended to use these with scheduled Crystal Reports instances, as concurrent on-demand reports will be handled serially.

Other connectivity are assumed to be multi-threaded and suitable to be used for both scheduled and on-demand Crystal Report instances as concurrent on-demand reports will be handled in parallel.

### OLAP Data Sources for Voyager

Provider Name	Data Connector
Hyperion Essbase Server 7.1.x	Hyperion Essbase API 7.1.x
Hyperion System 9	Hyperion Essbase client 9.0
	Hyperion Essbase client 9.2
	Hyperion Essbase client 9.3

### Application Connectivity for Data Services 3.1 SP1

Data Source	Version	Client	Source	Target
Oracle E-Business Suite	11i	N/A	x	x
	Release 12	N/A	x	x
PeopleTools <sup>(2)</sup>	8.0	N/A	x	x
	8.1	N/A	x	x
	8.4	N/A	x	x
Salesforce.com	12.0	AppExchange API for Enterprise	x	x

		version 12.0		
SAP BW	3.1c	SAP GUI Client 4.0a	x	x
	3.5	SAP GUI Client 4.0a	x	x
SAP BI <sup>(3)</sup>	7.0	SAP GUI Client 6.40	x	x
SAP R/3 via ABAP	3.1i	SAP GUI Client 4.0a	x	
	4.6	SAP GUI Client 4.0a	x	
	4.7	SAP GUI Client 4.0a	x	
SAP ERP via ABAP	ECC 5.0	SAP GUI Client 6.40	x	
	ECC 6.0	SAP GUI Client 6.40	x	
SAP R/3 via BAPI	3.1i	SAP GUI Client 4.0a	x	x
	4.6	SAP GUI Client 4.0a	x	x
	4.7	SAP GUI Client 4.0a	x	x
SAP ERP via BAPI	ECC 5.0	SAP GUI Client 6.40	x	x
	ECC 6.0	SAP GUI Client 6.40	x	x
SAP R/3 via IDOC	3.1i	SAP GUI Client 4.0a	x	x
	4.6	SAP GUI Client 4.0a	x	x
	4.7	SAP GUI Client 4.0a	x	x
SAP ERP via IDOC	ECC 5.0	SAP GUI Client 6.40	x	x
	ECC 6.0	SAP GUI Client 6.40	x	x
Siebel <sup>(4)</sup>	7.5.2	N/A	x	x
	7.7	N/A	x	x
	8.0	N/A	x	x

#### (1) Data Services 3.1 SP1 with JD Edwards Applications

If the Data Services 3.1 SP1 server is on Windows, JDE One World is only supported with source database Microsoft SQL Server, Oracle, and DB2 on AS/400.

If the Data Services 3.1 SP1 server is on Windows, and JDE World is using DB2 on AS/400, connection must be made through iSeries Access.

#### (2) Data Services 3.1 SP1 with Data Services 3.1 SP1 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 Data Services 3.1 SP1.

#### (3) Data Services 3.1 SP1 with SAP BI

SAP BI 7.0 is supported only when BI 7.0 is configured in BW 3.5 emulation mode. Support for native BI 7.0 objects is not provided. Please check for updates in the Supported Platform documentation.

#### (4) Data Services 3.1 SP1 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 Data Services 3.1 SP1.

### Database Connectivity for Data Services 3.1 SP1

Data Source <sup>(1)</sup>	Version	Client	Repo	Source	Target
ODBC to Generic Data Sources <sup>(2)</sup>	n/a	DataDirect ODBC Driver V5.2		x	x
	n/a	DataDirect ODBC Driver V5.3		x	x
	n/a	SQL Anywhere 9.0.1		x	x
IBM DB2/UDB for iSeries	5.2	DB2 Connect Enterprise Edition 8.2		x	x
	5.3	DB2 Connect Enterprise Edition 8.2		x	x
IBM DB2/UDB for Windows/UNIX/Linux	8.2	DB2 Connect Enterprise Edition 8.2	x	x	x
	8.2	DB2 Connect Personal Edition 8.2	x	x	x
	9.1	DB2 Connect Enterprise Edition 9.1	x	x	x
	9.1	DB2 Connect Personal Edition 9.1	x	x	x
	9.5	DB2 Connect Personal Edition 9.5	x	x	x
	9.5	DB2 Connect Enterprise Edition 9.5	x	x	x
IBM DB2/UDB for zSeries	7.1.1	DB2 Connect Enterprise Edition 8.2		x	x
Informix IDS	7.3.1	Informix Client 2.90		x	x
	9.4	Informix Client 2.90		x	x
	10	Informix Client 2.90		x	x
MySQL	4.1	MySQL ODBC Connector 3.51.10		x	x
	5.0	MySQL ODBC Connector 3.51.23	x	x	x
	5.0	MySQL ODBC Connector 3.51.24	x	x	x
	5.0	MySQL ODBC Connector 3.51.25	x	x	x
Netezza <sup>(3)</sup>	NPS 3.1.4	Netezza ODBC driver 3.1.4		x	x
	NPS 4.0	Netezza ODBC driver 4.0		x	x
	NPS 4.5	Netezza ODBC driver 4.5		x	x
Oracle	9.2	Oracle Net Client 9.2	x	x	x
	10g R1 (10.1)	Oracle Net Client 10.1	x	x	x
	10g R2 (10.2)	Oracle Net Client 10.1	x	x	x
	11g	Oracle Net Client 11	x	x	x
Sybase Adaptive Server Enterprise <sup>(4)</sup>	12.5	Sybase Open Client 12.5	x	x	x
	15.0	Sybase Open Client 15.0	x	x	x
Sybase Adaptive Server IQ <sup>(5)</sup>	12.6	Sybase ODBC 9 for Adaptive Server IQ 12.6		x	x
	12.7	Sybase ODBC 9 for Adaptive Server IQ 12.7		x	x

Teradata <sup>(6)</sup>	V2R6	Teradata ODBC 3.04		x	x
	V2R6.1	Teradata ODBC 3.05		x	x
	V2R6.2	Teradata ODBC 3.05		x	x
	12.0	Teradata ODBC 12.0		x	x

- (1) Rapid Marts are only supported when the Data Services 3.1 SP1 repository is:
- DB2
  - Oracle
  - SQL Server
- (2) 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.
- (3) Netezza connectivity is not supported to Windows 64-bit servers due to limitations in the Netezza client.
- (4) Sybase Adaptive Server Enterprise is not supported as a repository for the cleansing packages.
- (5) Sybase IQ version 12.6 requires ESD 4.
- (6) The following apply to Data Services 3.1 SP1 support of Teradata as a source and/or target:

The versions of Teradata TTU client supported include:

Teradata server version	Client version	ODBC driver
V2R6	TTU 8.0	03.04.00
V2R6.1	TTU 8.1	03.05.00
V2R6.2	TTU 8.2	03.06.00
12.0	TTU 12.0	12.00

Teradata support requires the following TTU patches:

On Windows:

- cliv2.04.08.00.01.exe
- tbld5000.05.00.00.01.exe
- psel5000.05.00.00.01.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

### Database Middleware Support

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.

## Technology Connectivity

Data Source	Version	Client	Source	Target
HTTP/HTTPS	1.0	N/A	x	x
	1.1	N/A	x	x
JMS	J2EE 1.0 compatible	N/A	x	x
SOAP <sup>(1)</sup>	1.1	N/A	x	x
WSDL <sup>(1)</sup>	1.1	N/A	x	x

- (1) Data Services 3.1 SP1 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.

## Message Client Library Support

Message Client Library Support		Compiler Version
C++ API	Windows (32-bit)	Visual Studio 2003 version 7.1
	Linux (32-bit)	g++ : gcc version 3.4.4 20050721 (Red Hat 3.4.4-2)
JAVA API	JDK 1.5.0.xx	JAVA version 5.0

## Files Connectivity

Data Source	Version	Client	Source	Target
Text files (delimited and fixed width)	N/A	N/A	x	x
COBOL	ANSI 85	N/A	x	
Excel	97, 2000, XP, 2003	N/A	x	
XML <sup>(1)</sup>	1.0	N/A	x	x

- (1) Data Services 3.1 SP1 supports XML Schema version 1.0 as defined by W3c.org.

## Support for SAP Application Servers

BusinessObjects XI Integration for SAP Solutions must be installed in order to use an SAP application server as a data source. For the latest information on SAP platforms required by BusinessObjects XI Integration for SAP Solutions, please visit the support area of the website: <https://service.sap.com/bosap-support>.

### Support for PeopleSoft Enterprise

BusinessObjects XI Integration for PeopleSoft Enterprise must be installed in order to use a PeopleSoft Enterprise as a data source. For the latest information on platforms required by BusinessObjects XI Integration for PeopleSoft Enterprise, please visit the support area of the website:

<https://service.sap.com/bosap-support> .

### Support for JD Edwards EnterpriseOne

BusinessObjects XI Integration for JD Edwards EnterpriseOne must be installed in order to use a JD Edwards EnterpriseOne as a data source. For the latest information on platforms required by BusinessObjects XI Integration for JD Edwards EnterpriseOne, please visit the support area of the website:

<https://service.sap.com/bosap-support>

### Support for Oracle E-Business Suite

BusinessObjects XI Integration for Oracle E-Business Suite must be installed in order to use a Oracle E-Business Suite as a data source. For the latest information on platforms required by BusinessObjects XI Integration for Oracle E-Business Suite, please visit the support area of the website:

<https://service.sap.com/bosap-support>

### Reverse Proxy Servers

- Apache HTTP Servers 2.2
- WebSEAL 6.0 (from IBM Tivoli Access Manager)

### LDAP Directory

- IBM Tivoli Directory Server 5.2
- IBM Tivoli Directory Server 6.0
- IBM Tivoli Directory Server 6.1
- Lotus Domino Directory 6.0.2
- Lotus Domino Directory 6.5.3
- Microsoft Active Directory Application Mode 2003 (ADAM)
- Microsoft Active Directory Application Mode 2003 (ADAM) SP1
- Microsoft Active Directory Application Mode 2008 (ADAM)
- Novell eDirectory 8.7.3
- Novell eDirectory 8.8
- Oracle Internet Directory 10gR3 (10.1.3)
- Sun Java System Directory Server 5.2
- Sun Java System Directory Server Enterprise 6.0

### Access Management

- eTrust (Netegrity) Siteminder 6.0
- eTrust (Computer Associates) Siteminder 12.0

## File Transfer Protocol (FTP) Requirements

The following are the guidelines that must be supported by any FTP Server being used in conjunction with SAP BusinessObjects Edge BI 3.1, version with data management as a scheduling destination.

- FTP server needs to support using “./” as a directory
- FTP server needs to support specifying a directory with a trailing “/”
- FTP server needs to support filenames that are 20+ characters (if destination file names are generated randomly by SAP BusinessObjects Edge BI 3.1, version with data management.)
- FTP server needs to support specifying file names starting with a “~” character (if destination file names are generated randomly by SAP BusinessObjects Edge BI 3.1, version with data management.)

## Other Tools supported for Data Services 3.1 SP1

### Admin Platform

- Citrix Presentation Server 4

### Simple Network Management Protocol

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

## Finding More Information

For more information and resources, refer to the product documentation and visit the support area of the web site at: <http://help.sap.com>.



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