

# SAP BusinessObjects Enterprise XI 3.1 SP3 for Windows – Supported Platforms



## Applies to:

SAP BusinessObjects Enterprise XI 3.1 SP3 for Windows.

## Summary

This document contains information specific to platforms and configurations for the SAP BusinessObjects Enterprise XI 3.1 SP3 release. For the latest information on updates to this document, please visit [SAP BusinessObjects Articles](#).

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**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.

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## Products

### Desktop

- widgets for SAP BusinessObjects Enterprise XI 3.1
- SAP BusinessObjects Desktop Intelligence XI
- SAP BusinessObjects Web Intelligence Rich Client XI
- SAP BusinessObjects Enterprise XI (Win32 clients)
- SAP BusinessObjects Live Office XI (2)
- BusinessObjects™ Set Architect XI
- BusinessObjects™ Set Analyzer XI
- Crystal Reports 2008
- SAP BusinessObjects XI, integration option for Microsoft SharePoint software (3)
- Universe Builder BusinessObjects™ Data Integrator plug-in
- Universe Builder CWM OLAP plug-in
- Universe Builder CWM Relational plug-in
- Universe Builder DB2 Cube Views plug-in
- Universe Builder DB2 Data Warehouse Center plug-in
- Universe Builder Oracle Data Warehouse plug-in
- Universe Builder Oracle OLAP plug-in
- Query as a Web Service (Win32 client) (1) (2)

(1) Query as a Web Service is available in English only.

(2) .Net Framework 2.0 is a necessary minimum requirement.

(3) Refer to the Platforms support document for “SAP BusinessObjects XI, integration option for Microsoft SharePoint software”. Please visit [SAP BusinessObjects Articles](#).

### Server

- SAP BusinessObjects Enterprise XI
- BusinessObjects™ Performance Manager XI
- BusinessObjects™ Predictive Analysis XI
- BusinessObjects™ Process Analysis XI
- BusinessObjects™ Set Analysis XI (server components)
- SAP BusinessObjects Voyager XI
- SAP BusinessObjects Web Intelligence XI
- BusinessObjects™ Xcelsius XI (2)
- Crystal Reports 2008 (server components)
- SAP BusinessObjects Dashboard Builder XI
- Encyclopedia
- ~~Process Tracker~~ (1)

(1) Process Tracker in BusinessObjects™ XI 3.1 Service Pack 2 is the last commercially available version.

Find the End of Life Announcement here [https://websmp203.sap-ag.de/~form/sapnet?\\_SHORTKEY=01100035870000726238&\\_SCENARIO=01100035870000000202](https://websmp203.sap-ag.de/~form/sapnet?_SHORTKEY=01100035870000726238&_SCENARIO=01100035870000000202)

(2) RDBMS support for Xcelsius servers is represented by the same relational data source connectivity listed through Web Intelligence, Desktop Intelligence, and Dashboard and Analytics. OLAP data sources are not applicable.

## Languages

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

(1) BusinessObjects Set Architect and Set Analyzer are supported in English only.

## Supported Operating Systems

### Desktop

- Windows XP SP2 Professional
- Windows XP SP3 Professional
- Windows Vista SP1 (1)
- Windows Vista SP2 (1)
- Windows 7 (1)
- Windows Server 2003 SP2 (1) (2)
- Windows Server 2003 R2 SP2 (1) (2)

- Windows Server 2008 [\(1\)](#) [\(2\)](#)
- Windows Server 2008 SP2 [\(1\)](#) [\(2\)](#)
- Windows Server 2008 R2 [\(2\)](#) [\(3\)](#)

[\(1\)](#) 32-bit and 64-bit O/S editions supported.

[\(2\)](#) Data Center Edition, Enterprise Edition, Standard Edition, Web Edition

[\(3\)](#) 64-bit O/S editions supported.

## Server

- Windows Server 2003 SP2 [\(1\)](#) [\(2\)](#)
- Windows Server 2003 R2 SP2 [\(1\)](#) [\(2\)](#)
- Windows Server 2008 [\(1\)](#) [\(2\)](#)
- Windows Server 2008 SP2 [\(1\)](#) [\(2\)](#)
- Windows Server 2008 R2 [\(2\)](#) [\(3\)](#)

[\(1\)](#) 32-bit and 64-bit O/S editions supported

[\(2\)](#) Data Center Edition, Enterprise Edition, Standard Edition, Web Edition

[\(3\)](#) 64-bit O/S editions supported.

**Note:** Windows 7 and Windows Server 2008 R2 are new platform support additions in Service Pack 3 which are only available for support on the SP3 full release install of SAP BusinessObjects Enterprise. The SP3 patch only release of SAP BusinessObjects Enterprise does not provide support for these two new platforms.

## Minimum Screen Resolution

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

## Minimum Hardware Requirements

- 2.0 GHz Pentium 4-class processor
- 2 GB RAM
- Hard disk space availability (with English language only) for full release install:
  - 6.0 GB for SAP BusinessObjects Enterprise install
  - 1.0 GB for SAP BusinessObjects Enterprise client install
  - 0.2 GB for SAP BusinessObjects Live Office install
- Additional hard disk space availability (each individual language pack) for full release install:
  - 0.6 GB for SAP BusinessObjects Enterprise install
  - 0.1 GB for SAP BusinessObjects Enterprise client install
  - 0.2 GB for SAP BusinessObjects Live Office install
- Hard disk space availability (with English language only) for patch release install:
  - 4.0 GB for SAP BusinessObjects Enterprise install
  - 1.3 GB for SAP BusinessObjects Enterprise client install
  - 0.2 GB for SAP BusinessObjects Live Office install
- Additional hard disk space availability (each individual language pack) for patch release install:

- 0.5 GB for SAP BusinessObjects Enterprise install
- 0.2 GB for SAP BusinessObjects Enterprise client install
- 0.1 GB for SAP BusinessObjects Live Office install

**Note:** The 32-bit compiled binaries of SAP BusinessObjects Enterprise software is supported on 32-bit and 64-bit versions of the Windows operating system (running on either x86 or x64 CPUs made by AMD and Intel).

## Supported Application Servers

| Application Servers                                    | JDK                          |
|--------------------------------------------------------|------------------------------|
| JBoss 4.2.3 (4)                                        | JDK 1.5.0_xx                 |
| Microsoft IIS 7.5 (3) (4)                              | N/A                          |
| Microsoft IIS 7.0 (3) (4)                              | N/A                          |
| Microsoft IIS 6.0 (3) (4)                              | N/A                          |
| Oracle Application Server 10gR3 (10.1.3) (1) (4)       | JDK 1.5.0_xx                 |
| SAP NetWeaver 7.0 (2) (4)                              | JDK 1.4.2_xx                 |
| SAP NetWeaver 7.1                                      | JDK 1.5.0_xx                 |
| Tomcat 5.5                                             | JDK 1.5.0_xx                 |
| Tomcat 6.0.18 (4)                                      | JDK 1.5.0_xx                 |
| WebLogic 9.2 MP2 (4)                                   | JDK 1.5.0_xx<br>JRockit 5.0+ |
| WebLogic 10                                            | JDK 1.5.0_xx<br>JRockit 5.0+ |
| WebLogic 10.3 (4)                                      | JDK 1.6.0_xx<br>JRockit 6.0+ |
| WebSphere Application Server 6.1.0.7                   | JDK 1.5.0_xx                 |
| WebSphere Application Server 7 (4)                     | JDK 1.6.0_xx                 |
| WebSphere Application Server Community Edition 2.0 (4) | JDK 1.5.0_xx                 |

(1) Please see release notes on the minimum version supported for Dashboard and Analytics.

(2) Not supported for Web Services.

(3) Not supported for Dashboard Builder.

(4) Not supported when Query As a Web Services performance enhancement is activated.

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

## 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 Business Objects tests and supports any \_xx release installed with a given application server.

## Specific Patches Required for Oracle Application Server

See release notes for exact patch level support.

## HTTP Servers

Any supported by Application Server vendor.

## Supported Portal Servers

- Microsoft SharePoint Portal Server 2003 (32-bit editions only) (1) (2)
- Microsoft Windows SharePoint Services (WSS 2.0) 2003 (32-bit editions only) (1) (2)
- Microsoft SharePoint Portal Server 2007 (32-bit editions only) (1) (2)
- Microsoft Windows SharePoint Services (WSS 3.0) 2007 (32-bit editions only) (1) (2)
- 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 (JSR 168)
- WebSphere Portal 6.1 (JSR 286)

(1) Portal Integration Kit for SharePoint supports 32-bit SharePoint running on 32-bit Windows Servers, provided SharePoint itself supports the operating system.

(2) Danish, Thai & Norwegian languages are not supported

## Supported Browsers

| Browser OS        | Browser           | JVM                              |
|-------------------|-------------------|----------------------------------|
| Apple Mac OS X    | Firefox 3.0       | Apple 1.5.0_xx<br>Apple 1.6.0_xx |
|                   | Firefox 3.5       | Apple 1.5.0_xx<br>Apple 1.6.0_xx |
|                   | Safari 3.2.x (1)  | Apple 1.5.0_xx<br>Apple 1.6.0_xx |
|                   | Safari 4.0.3+ (1) | Apple 1.5.0_xx<br>Apple 1.6.0_xx |
| Microsoft Windows | Firefox 3.0       | Sun 1.5.0_xx<br>Sun 1.6.0_02+    |
|                   | Firefox 3.5       | Sun 1.5.0_xx<br>Sun 1.6.0_xx     |
|                   | IE 6.0 SP2 / SP3  | Sun 1.5.0_xx<br>Sun 1.6.0_02+    |

| Browser OS | Browser    | JVM                           |
|------------|------------|-------------------------------|
|            | IE 7.0     | Sun 1.5.0_xx<br>Sun 1.6.0_02+ |
|            | IE 8.0 (2) | Sun 1.6.0_xx                  |

(1) Not supported by Performance Management.

(2) Only Compatibility Mode supported.

### SVG and Flash support for Dashboard and Analytics

- SVG is not supported by Dashboard and Analytics for Firefox and Safari 4.0.
- SVG version 3.0.3 and above supported for Internet Explorer.
- Flash version 7 and above supported for Internet Explorer and Firefox.

### Data Source Middleware Support

SAP BusinessObjects Enterprise 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 PAR, 64-bit middleware connectivity is not supported. Conversely, native 64-bit offerings of SAP BusinessObjects Enterprise suite products are designed to exclusively use 64-bit data source middleware connectivity.

### ODBC DSN Support

SAP BusinessObjects products use 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

### CMS (Repository) & Audit Data Sources

| Provider Name                         | Data Connector                      |
|---------------------------------------|-------------------------------------|
| IBM DB2/UDB for NT/Unix/Linux 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 NT/Unix/Linux 9.7 (2) | DB2 Client 9.5                      |
| MS SQL Server 2000 SP4                | Microsoft ODBC MDAC 2.8             |
| MS SQL Server 2005 SP1/SP2/SP3        | Microsoft ODBC MDAC 2.8             |
|                                       | Microsoft ODBC SNAC (Native Client) |
| MS SQL Server 2008                    | Microsoft ODBC MDAC 2.8             |
|                                       | Microsoft ODBC SNAC (Native Client) |
| MySQL AB 5.0                          | MySQL C-API                         |
| Oracle 9.2                            | Oracle Net Client 9.2               |
| Oracle 10g R1 (10.1)                  | Oracle Net Client 10.1 (1)          |
| Oracle 10g R2 (10.2)                  | Oracle Net Client 10.2 (1)          |
| Oracle 11g R1 (11.1)                  | Oracle Net Client (11.1.0.6) (1)    |



| Provider Name                        | Data Connector                   |
|--------------------------------------|----------------------------------|
| Oracle 11g R2 (11.2) (3)             | Oracle Net Client (11.1.0.6) (1) |
| Sybase Adaptive Server Enterprise 15 | Sybase Open Client 15            |

(1) Oracle Real Application Cluster is supported.

(2) **Compatible support\*** with [respect](#) to IBM DB2/UDB for LUW 9.5

(3) **Compatible support\*** with [respect](#) to “Oracle 11gR1”. (Access requires user/pass for Oracle support site)

\*Compatible support description in [Platforms and Technologies Support Policy Guidelines](#)

## Dashboard and Analytics Repository Data Sources

| Provider Name                     | Data Connector                           |
|-----------------------------------|------------------------------------------|
| IBM DB2/UDB for NT/Unix/Linux 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 8         | DB2 Client 8.2                           |
| IBM DB2/UDB for zSeries 9.1       | DB2 Client 9.1                           |
| MS SQL Server 2000 SP4            | Microsoft ODBC MDAC 2.8                  |
|                                   | Microsoft OLEDB MDAC 2.8                 |
| MS SQL Server 2005 SP1/SP2/SP3    | Microsoft ODBC MDAC 2.8                  |
|                                   | Microsoft ODBC SNAC (Native Client)      |
|                                   | Microsoft OLEDB MDAC 2.8                 |
|                                   | Microsoft OLEDB SNAC (Native Client)     |
| MS SQL Server 2008                | Microsoft ODBC MDAC 2.8                  |
|                                   | Microsoft ODBC SNAC (SQL Native Client)  |
|                                   | Microsoft OLEDB MDAC 2.8                 |
|                                   | Microsoft OLEDB SNAC (SQL Native Client) |
| NCR Teradata V2R6.2               | NCR Teradata ODBC 3.06 (TTU 8.2)         |
| Teradata 12.0                     | Teradata ODBC (TTU 12.00.00.1)           |
|                                   | Teradata JDBC (TTU 12.00.00.1)           |
| Teradata 13.0                     | Teradata ODBC (TTU 13.00.00.2)           |
|                                   | Teradata JDBC (TTU 13.00.00.7)           |
| Oracle 11g R1 (11.1)              | Oracle Net Client 11.1 (1)               |
| Oracle 10g R1 (10.1)              | Oracle Net Client 10.1 (1)               |

| Provider Name                        | Data Connector             |
|--------------------------------------|----------------------------|
| 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 is supported.

### Supported Data Sources for Set Architect, Set Analyzer and Set Analysis

| Provider Name                        | Data Connector                       |
|--------------------------------------|--------------------------------------|
| IBM DB2/UDB for NT/Unix/Linux 8.2    | DB2 Client 8.2                       |
| IBM DB2/UDB for NT/Unix/Linux 9.1    | DB2 Client 9.1 (1) (2)               |
| IBM DB2/UDB for NT/Unix/Linux 9.5    | DB2 Client 9.5                       |
| MS SQL Server 2000 SP4               | Microsoft ODBC MDAC 2.8              |
|                                      | Microsoft OLEDB MDAC 2.8             |
| MS SQL Server 2005 SP1/SP2/SP3       | Microsoft ODBC MDAC 2.8              |
|                                      | Microsoft ODBC SNAC (native client)  |
|                                      | Microsoft OLEDB MDAC 2.8             |
|                                      | Microsoft OLEDB SNAC (native client) |
| MS SQL Server 2008                   | Microsoft ODBC MDAC 2.8              |
|                                      | Microsoft ODBC SNAC (Native Client)  |
|                                      | Microsoft OLEDB MDAC 2.8             |
|                                      | Microsoft OLEDB SNAC (Native Client) |
| Oracle 9.2                           | Oracle Net Client 9.2                |
| Oracle 10g R1 (10.1)                 | Oracle Net Client 10.1 (3)           |
| Oracle 10g R2 (10.2)                 | Oracle Net Client 10.2 (3)           |
| Oracle 11g R1 (11.1)                 | Oracle Net Client 11.1 (3)           |
| NCR Teradata V2R6.2                  | NCR Teradata ODBC 3.06 (TTU 8.2)     |
| Teradata 12.0                        | Teradata ODBC (TTU 12.00.00.1)       |
| Teradata 13.0                        | Teradata ODBC (TTU 13.00.00.2)       |
|                                      | Teradata JDBC (TTU 13.00.00.7)       |
| Sybase Adaptive Server IQ 12.7       | Sybase ODBC 9                        |
| Sybase Adaptive Server Enterprise 15 | Sybase Open Client 15 (1)            |

(1) Supported for Set Analysis.

(2) Supported for Set Analyzer.

(3) Oracle Real Application Cluster (RAC) is supported.

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

| Provider Name                                   | Data Connector                                                      | Unicode Support | Remarks |
|-------------------------------------------------|---------------------------------------------------------------------|-----------------|---------|
| <b>OLAP (1)</b>                                 |                                                                     |                 |         |
| 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                                         |                 |         |
| Microsoft SQL Server Analysis Services 2000 SP4 | MS SQL Server OLAP Client 2000 SP4                                  |                 |         |
| Microsoft SQL Server Analysis Services 2005 SP1 | Microsoft SQL Server 2005 Analysis Services 9.0 OLE DB Provider SP1 |                 |         |
| Microsoft SQL Server Analysis Services 2005 SP2 | Microsoft SQL Server 2005 Analysis Services 9.0 OLE DB Provider SP2 |                 |         |
| Microsoft SQL Server Analysis Services 2008     | Microsoft SQL Server 2008 Analysis Services 10.0 OLE DB             |                 |         |
| <b>RDBMS</b>                                    |                                                                     |                 |         |
| Generic JDBC Data Sources                       | Java 1.5 (5)                                                        |                 |         |
| Generic ODBC Data Sources                       | ODBC                                                                |                 |         |
| GreenPlum Database 3.2                          | PostgreSQL 8.2 / 8.3 ODBC                                           | Yes             |         |
|                                                 | PostgreSQL 8.2 / 8.3 JDBC (5)                                       | Yes             |         |
| SAP BusinessObjects Data Federator 3.0 (XI R2)  | ODBC for Data Federator (2)                                         |                 |         |
| SAP BusinessObjects Data Federator 3.5 (XI R2)  | ODBC for Data Federator (2)                                         |                 |         |
|                                                 | Data Federator JDBC driver v3.5 (2) (5)                             |                 |         |
| HP Neoview 2.3.1                                | HP Neoview ODBC Driver 2.3.1 (4)                                    | Yes             |         |
| HP Neoview 2.4                                  | HP Neoview ODBC Driver 2.4 (4)                                      | Yes             |         |
| IBM DB2/UDB for iSeries 5.4                     | DB2 Connect 9.1                                                     |                 |         |
|                                                 | IBM iSeries Access (ODBC) 5.4                                       |                 |         |
| IBM DB2/UDB for NT/Unix/Linux 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                                                      | Yes             |         |
|                                                 | DB2 Universal JDBC Driver (5)                                       | Yes             |         |

| Provider Name                         | Data Connector                                 | Unicode Support | Remarks                                                                    |
|---------------------------------------|------------------------------------------------|-----------------|----------------------------------------------------------------------------|
| IBM DB2/UDB for NT/Unix/Linux 9.7     | DB2 Client 9.5                                 | Yes             | Compatible support with <a href="#">respect</a> to IBM DB2/UDB for LUW 9.5 |
|                                       | DB2 Universal JDBC Driver (5)                  | Yes             |                                                                            |
| IBM DB2/UDB for NT/Unix/Linux 9.8     | DB2 Client 9.5                                 | Yes             | Compatible support with <a href="#">respect</a> to IBM DB2/UDB for LUW 9.5 |
|                                       | DB2 Universal JDBC Driver (5)                  | Yes             |                                                                            |
| IBM DB2/UDB for zSeries 8             | DB2 Client 8.2 (3) (9)                         |                 |                                                                            |
| IBM DB2/UDB for zSeries 9.1           | DB2 Client 9.1 (9)                             |                 |                                                                            |
| IBM Informix Dynamic Server 10.0      | IBM Informix ODBC SDK 2.90                     |                 |                                                                            |
| IBM Informix Dynamic Server 11.1      | IBM Informix ODBC SDK 3.50                     |                 |                                                                            |
|                                       | IBM Informix JDBC (5)                          |                 |                                                                            |
| IBM Informix Dynamic Server 11.5      | IBM Informix ODBC SDK 3.50                     |                 |                                                                            |
|                                       | IBM Informix JDBC (5)                          |                 |                                                                            |
| IBM Informix XPS 8.40                 | IBM Informix ODBC SDK 2.81                     |                 |                                                                            |
| IBM Informix XPS 8.50                 | IBM Informix ODBC SDK 2.90                     |                 |                                                                            |
| IBM Redbrick Decision Server 6.3      | IBM Red Brick ODBC 5                           |                 | Use is discouraged.<br>May be discontinued in the future.                  |
| Ingres 2006                           | Ingres ODBC 3.5 (7)                            | Yes             |                                                                            |
| Microsoft Excel 2007                  | Microsoft ODBC MDAC 2.8                        |                 |                                                                            |
| Microsoft Excel 2010                  | Microsoft Office 2010 System Driver: ODBC      |                 | As of FP 3.4                                                               |
| Microsoft Access 2003                 | Microsoft ODBC MDAC 2.8 (2)                    |                 |                                                                            |
| Microsoft Access 2007                 | Microsoft ODBC MDAC 2.8 (2)                    |                 |                                                                            |
| Microsoft Access 2010                 | Microsoft Office 2010 System Driver: ODBC (2)  |                 | As of FP 3.4                                                               |
| Microsoft SQL Server 2000 SP4         | Microsoft ODBC MDAC 2.8                        | Yes             |                                                                            |
|                                       | Microsoft OLEDB MDAC 2.8                       | Yes             |                                                                            |
|                                       | Microsoft SQL SERVER 2000 JDBC (5)             |                 |                                                                            |
| Microsoft SQL Server 2005 SP1/SP2/SP3 | JDBC SQL Server 2005 (2) (5)                   | Yes             |                                                                            |
|                                       | Microsoft ODBC MDAC 2.8                        | Yes             |                                                                            |
|                                       | Microsoft ODBC SNAC (native client)            | Yes             |                                                                            |
|                                       | Microsoft OLEDB MDAC 2.8                       | Yes             |                                                                            |
|                                       | Microsoft OLEDB SNAC (native client)           | Yes             |                                                                            |
| Microsoft SQL Server 2008             | Microsoft JDBC 1.2 for SQL Server 2005 (2) (5) | Yes             |                                                                            |

| Provider Name          | Data Connector                           | Unicode Support | Remarks                                                                                                                   |
|------------------------|------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------|
|                        | Microsoft ODBC SNAC (native client)      | Yes             |                                                                                                                           |
|                        | Microsoft OLEDB SNAC (native client)     | Yes             |                                                                                                                           |
| MySQL AB 5.0           | MySQL AB ODBC 5.1.4                      |                 |                                                                                                                           |
|                        | MySQL AB JDBC 5.0 (2) (5)                |                 |                                                                                                                           |
| NCR Teradata V2R6.2    | NCR Teradata ODBC 3.06 (TTU 8.2)         | Yes             |                                                                                                                           |
|                        | NCR Teradata JDBC 3.04 (TTU 8.2) (2) (5) | Yes             |                                                                                                                           |
| Teradata 12.0          | Teradata ODBC (TTU 12.00.00.1)           | Yes             |                                                                                                                           |
|                        | Teradata JDBC (TTU 12.00.00.1) (2) (5)   | Yes             |                                                                                                                           |
| Teradata 13.0          | Teradata ODBC (TTU 13.00.00.2)           | Yes             |                                                                                                                           |
|                        | Teradata JDBC (TTU 13.00.00.7) (2) (5)   | Yes             |                                                                                                                           |
| Teradata 13.1          | Teradata ODBC (TTU 13.00.00.2)           | Yes             | Compatible support with <a href="#">respect</a> to Teradata 13.0                                                          |
|                        | Teradata JDBC (TTU 13.00.00.7) (2) (5)   | Yes             |                                                                                                                           |
| Netezza NPS Server 4.0 | Netezza ODBC 4.0                         | Yes             |                                                                                                                           |
|                        | Netezza JDBC Access (5)                  | Yes             |                                                                                                                           |
| Netezza NPS Server 4.5 | Netezza ODBC 4.5                         | Yes             |                                                                                                                           |
|                        | Netezza JDBC 4.5 (5)                     | Yes             |                                                                                                                           |
| Netezza 4.6            | Netezza ODBC 4.5                         | Yes             | Compatible support with <a href="#">respect</a> to "Netezza 4.5".                                                         |
|                        | Netezza JDBC 4.5 (5)                     | Yes             |                                                                                                                           |
| Netezza 5.0            | Netezza ODBC 4.5                         | Yes             | Compatible support with <a href="#">respect</a> to "Netezza 4.5"                                                          |
|                        | Netezza JDBC 4.5 (5)                     | Yes             |                                                                                                                           |
| Oracle 11g R2          | Oracle Net Client 11g R1 (6)             | Yes             | Compatible support with <a href="#">respect</a> to "Oracle 11gR1".<br>(Access requires user/pass for Oracle support site) |
|                        | Oracle JDBC 11g R1 (11.1.0.6) (5) (6)    | Yes             |                                                                                                                           |
| Oracle 11g R1          | Oracle Net Client 11g R1 (6)             | Yes             |                                                                                                                           |
|                        | Oracle JDBC 11g R1 (11.1.0.6) (5) (6)    | Yes             |                                                                                                                           |
| Oracle 10g R1 (10.1)   | Oracle Net Client 10.1 (6)               | Yes             |                                                                                                                           |
|                        | Oracle JDBC 10g R1 (10.1.0.3) (5) (6)    | Yes             |                                                                                                                           |

| Provider Name                                | Data Connector                                | Unicode Support | Remarks                                             |
|----------------------------------------------|-----------------------------------------------|-----------------|-----------------------------------------------------|
| 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             |                                                     |
| PostgreSQL 8.3                               | PostgreSQL 8.3 ODBC                           | Yes             |                                                     |
|                                              | PostgreSQL 8.3 JDBC (5)                       | Yes             |                                                     |
| Progress OpenEdge 10.1B                      | OpenEdge 10.1B ODBC (2)                       |                 |                                                     |
|                                              | OpenEdge 10.1B JDBC (2) (5)                   |                 |                                                     |
| SAP HANA 1.0 (8)                             | SAP HANA ODBC 1.0                             | Yes             | As of FP 3.4                                        |
|                                              | SAP HANA JDBC 0.01                            | Yes             | As of FP 3.4                                        |
| SFDC Framework                               | OpenAccess ODBC driver for SFDC               |                 |                                                     |
| Sybase Adaptive Server Enterprise 15         | Sybase Open Client 15                         |                 |                                                     |
|                                              | jConnect JDBC driver 6.05 (2) (5)             |                 |                                                     |
| Sybase Adaptive Server Enterprise (ASE) 15.5 | Sybase Open Client 15                         |                 | Compatible support with respect to "Sybase ASE 15"  |
| 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 Adaptive Server IQ 15.1               | Sybase ODBC 9 for Adaptive Server IQ 12.7     |                 | Compatible support with respect to "Sybase IQ 12.7" |
| Sybase Adaptive Server IQ 15.2               | Sybase ODBC 9 for Adaptive Server IQ 12.7     |                 | Compatible support with respect to "Sybase IQ 12.7" |
| Sybase SQL Anywhere (ASA) 10                 | Sybase ODBC 9 for Adaptive Server IQ 12.7 (2) |                 |                                                     |
|                                              | Sybase SQL Anywhere ODBC Driver 10 (2)        |                 |                                                     |

(1) OLAP connectivity is NOT supported by Desktop Intelligence. Dashboard and Analytics supports OLAP data sources for Query on Universe on Windows.

(2) Connectivity not supported for Dashboard and Analytics.

(3) Connectivity not supported for Performance Manager. Other Dashboard and Analytics products are supported.

(4) Connectivity not supported for Predictive Analysis.

(5) Connectivity not supported for Desktop Intelligence.

(6) Oracle Real Application Cluster (RAC) is supported.

(7) Supported through Generic ODBC layer.

(8) Supported for Web Intelligence and Universe Designer only

(9) Need to also install DB2 Connect for System z (refer to IBM documentation)

## Source and Data Model Versions for Universe Builder

| Meta Data Model                                                     | Database                      | Middleware             |
|---------------------------------------------------------------------|-------------------------------|------------------------|
| <b>Universe Builder SAP BusinessObjects Data Integrator Plug-in</b> |                               |                        |
| CWM from SAP BusinessObjects Data Integrator 6.X/XI/XIR2            | N/A                           | N/A                    |
| <b>Universe Builder CWM OLAP Plug-in</b>                            |                               |                        |
| CWM OLAP 1.0                                                        | N/A                           | N/A                    |
| CWM OLAP 1.1                                                        | N/A                           | N/A                    |
| <b>Universe Builder CWM Relational Plug-in</b>                      |                               |                        |
| CWM 1.0                                                             | N/A                           | N/A                    |
| CWM 1.1                                                             | N/A                           | N/A                    |
| <b>Universe Builder DB2 Cube Views Plug-in</b>                      |                               |                        |
| IBM DB2 Cube Views 8.1                                              | IBM DB2/UDB for NT/Unix 8.1   | DB2 Client 8.1         |
| <b>Universe Builder DB2 Data Warehouse Center Plug-in</b>           |                               |                        |
| CWM from DB2 Data Warehouse Center 8.X                              | N/A                           | N/A                    |
| <b>Universe Builder Oracle Data Warehouse Plug-in</b>               |                               |                        |
| OLAP/Relational CWM from Oracle Warehouse Builder 10g               | N/A                           | N/A                    |
| OLAP/Relational CWM from Oracle Warehouse Builder 9i                | N/A                           | N/A                    |
| <b>Universe Builder Oracle OLAP Plug-in</b>                         |                               |                        |
| Oracle Option OLAP 10.2.0.2.0                                       | Oracle 10gR2 (10.2.0.2.0) (2) | Oracle Net Client 10.2 |
| Oracle Option OLAP 10.1.0.1                                         | Oracle 10g R1 (10.1.0.1)      | Oracle Net Client 10.1 |
| Oracle Option OLAP 10.1.0.2                                         | Oracle 10g R1 (10.1.0.2)      | Oracle Net Client 10.1 |
| Oracle Option OLAP 10.1.0.3                                         | Oracle 10g R1 (10.1.0.3)      | Oracle Net Client 10.1 |
| Oracle Option OLAP 10.1.0.4                                         | Oracle 10g R1 (10.1.0.4) (1)  | Oracle Net Client 10.1 |
| Oracle Option OLAP 9.2.0.5                                          | Oracle 9.2                    | Oracle Net Client 9.2  |

Remark: When the Database & Middleware are not applicable (N/A), the source is an XML file compliant with the metadata format.

(1) Oracle database server requires Patch 4504204

(2) The following Oracle patches are required on the server OLAP 10.2.0.2.0:

Patch 4722589: Description SQL VIEW JOINING TWO ACTIVE CATALOG TABLE FUNCTION VIEWS NOT WORKING

Patch 4429146: Description INCORRECT LIMIT GENERATED ON TABLE FUNCTION WHEN LABEL CLAUSE USED IN LIMITMAP

Failure to properly install the Oracle patches will cause Universe Builder to fail. In addition, Oracle Cubes created in earlier versions must be migrated thru analytical Workspace Manager for cubes to be functional.

## Crystal Reports Reporting Data Sources

| Provider Name                                   | Data Connector                                                      | Unicode Support | Remarks |
|-------------------------------------------------|---------------------------------------------------------------------|-----------------|---------|
| <b>OLAP</b>                                     |                                                                     |                 |         |
| Hyperion Essbase Server 7.1.x                   | Hyperion Essbase API 7.1.x                                          | Yes             |         |
| Hyperion System 9                               | Hyperion Essbase client 9.0                                         |                 |         |
|                                                 | Hyperion Essbase client 9.2                                         |                 |         |
|                                                 | Hyperion Essbase client 9.3                                         |                 |         |
| Microsoft SQL Server Analysis Services 2000 SP4 | Microsoft SQL Server 2000 Analysis Services 8.0 OLE DB Provider SP4 | Yes             |         |
| Microsoft SQL Server Analysis Services 2005 SP1 | Microsoft SQL Server 2005 Analysis Services 9.0 OLE DB Provider SP1 | Yes             |         |
| Microsoft SQL Server Analysis Services 2005 SP2 | Microsoft SQL Server 2005 Analysis Services 9.0 OLE DB Provider SP2 | Yes             |         |
| Microsoft SQL Server Analysis Services 2008     | Microsoft SQL Server 2008 Analysis Services 10.0 OLE DB Provider    | Yes             |         |
| <b>RDBMS</b>                                    |                                                                     |                 |         |
| Generic JDBC Data Sources                       | Java 1.5                                                            | Yes             |         |
| Generic ODBC Data Sources                       | ODBC                                                                | Yes             |         |
| Generic OLEDB Data Sources                      | OLEDB                                                               | Yes             |         |
| GreenPlum Database 3.2                          | PostgreSQL ODBC 8.2                                                 | Yes             |         |
|                                                 | PostgreSQL JDBC 8.2                                                 | Yes             |         |
| HP Neoview 2.3.1                                | HP Neoview ODBC 2.3.1                                               | Yes             |         |
| HP Neoview 2.4                                  | HP Neoview ODBC Driver 2.4                                          | Yes             |         |
| IBM DB2/UDB for iSeries 5.4                     | DB2 Connect 9.1                                                     |                 |         |
|                                                 | IBM iSeries Access (ODBC) 5.4                                       |                 |         |
|                                                 | DB2 Universal JDBC Driver                                           | Yes             |         |
|                                                 | DataDirect ODBC 5.3 (3)                                             | Yes             |         |
| IBM DB2/UDB for NT/Unix/Linux 8.2               | DB2 Client 8.2                                                      | Yes             |         |
|                                                 | DB2 JDBC 8.2                                                        | Yes             |         |
|                                                 | DB2 OLEDB 8.2                                                       | Yes             |         |
|                                                 | DataDirect ODBC 5.3 (3)                                             | Yes             |         |
| IBM DB2/UDB for NT/Unix/Linux 9.1 (1)           | DB2 Client 9.1                                                      | Yes             |         |
|                                                 | DB2 JDBC 9.1                                                        | Yes             |         |



| Provider Name                     | Data Connector                             | Unicode Support | Remarks                                                                    |
|-----------------------------------|--------------------------------------------|-----------------|----------------------------------------------------------------------------|
|                                   | DB2 OLEDB 9.1                              | Yes             |                                                                            |
|                                   | DataDirect ODBC 5.3 (3)                    | Yes             |                                                                            |
| IBM DB2/UDB for NT/Unix/Linux 9.5 | DB2 Client 9.5                             |                 |                                                                            |
|                                   | DB2 Universal JDBC Driver                  | Yes             |                                                                            |
|                                   | DB2 OLEDB 9.5                              | Yes             |                                                                            |
|                                   | DataDirect ODBC 5.3 (1)                    | Yes             |                                                                            |
| IBM DB2/UDB for NT/Unix/Linux 9.7 | DB2 Client 9.5                             | Yes             | Compatible support with <a href="#">respect</a> to IBM DB2/UDB for LUW 9.5 |
|                                   | DB2 Universal JDBC Driver                  | Yes             |                                                                            |
| IBM DB2/UDB for NT/Unix/Linux 9.8 | DB2 Client 9.5                             | Yes             | Compatible support with <a href="#">respect</a> to IBM DB2/UDB for LUW 9.5 |
|                                   | DB2 Universal JDBC Driver                  | Yes             |                                                                            |
| IBM/DB2/UDB for zSeries 8         | DB2 Connect 8.2                            | Yes             |                                                                            |
|                                   | DB2 Universal JDBC Driver (5)              | Yes             |                                                                            |
|                                   | DataDirect ODBC 5.3 (3)                    | Yes             |                                                                            |
| IBM DB2/UDB for zSeries 9.1       | DB2 Connect 9.1                            | Yes             |                                                                            |
| IBM Informix Dynamic Server 10.0  | IBM Informix ODBC SDK 2.90                 | Yes             |                                                                            |
|                                   | DataDirect ODBC 5.3 (3)                    | Yes             |                                                                            |
| IBM Informix Dynamic Server 11.1  | IBM Informix ODBC SDK 3.50                 | Yes             |                                                                            |
|                                   | DataDirect ODBC 5.3 (3)                    | Yes             |                                                                            |
|                                   | IDS Client 11.1                            |                 |                                                                            |
| IBM Informix Dynamic Server 11.5  | IBM Informix ODBC SDK 3.50                 | Yes             |                                                                            |
|                                   | IDS Client 11.5                            |                 |                                                                            |
| Ingres 2006                       | Ingres ODBC 3.5                            | Yes             |                                                                            |
| Microsoft Access 2003             | DAO 3.6                                    | Yes             |                                                                            |
|                                   | Microsoft ODBC MDAC 2.8                    | Yes             |                                                                            |
|                                   | Microsoft OLEDB MDAC 2.8                   | Yes             |                                                                            |
| Microsoft Access 2007             | 2007 Office System Driver: ODBC            | Yes             |                                                                            |
|                                   | 2007 Office System Driver: OLEDB           | Yes             |                                                                            |
| Microsoft Access 2010             | Microsoft Office 2010 System Driver: ODBC  | Yes             | As of <b>FP 3.4</b>                                                        |
|                                   | Microsoft Office 2010 System Driver: OLEDB | Yes             | As of <b>FP 3.4</b>                                                        |
| Microsoft SQL Server 2000 SP4     | JDBC SQL Server 2000                       | Yes             |                                                                            |
|                                   | Microsoft ODBC MDAC 2.8                    | Yes             |                                                                            |
|                                   | Microsoft OLEDB MDAC 2.8                   | Yes             |                                                                            |
|                                   | DataDirect ODBC 5.3 (3)                    | Yes             |                                                                            |

| Provider Name                            | Data Connector                       | Unicode Support | Remarks                                                                                                                   |
|------------------------------------------|--------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------|
| Microsoft SQL Server 2005<br>SP1/SP2/SP3 | JDBC SQL Server 2005                 | Yes             |                                                                                                                           |
|                                          | Microsoft ODBC MDAC 2.8              | Yes             |                                                                                                                           |
|                                          | Microsoft ODBC SNAC (Native Client)  | Yes             |                                                                                                                           |
|                                          | Microsoft OLEDB MDAC 2.8             | Yes             |                                                                                                                           |
|                                          | Microsoft OLEDB SNAC (Native Client) | Yes             |                                                                                                                           |
|                                          | DataDirect ODBC 5.3 (3)              | Yes             |                                                                                                                           |
| Microsoft SQL Server 2008                | JDBC SQL Server 2008                 | Yes             |                                                                                                                           |
|                                          | Microsoft ODBC MDAC 2.8              | Yes             |                                                                                                                           |
|                                          | Microsoft ODBC SNAC (Native Client)  | Yes             |                                                                                                                           |
|                                          | Microsoft OLEDB MDAC 2.8             | Yes             |                                                                                                                           |
|                                          | Microsoft OLEDB SNAC (Native Client) | Yes             |                                                                                                                           |
| MySQL AB 5.0                             | MySQL AB ODBC 5.1.4                  | Yes             |                                                                                                                           |
|                                          | MySQL AB JDBC 5.0                    | Yes             |                                                                                                                           |
| NCR Teradata V2R6.2                      | NCR Teradata ODBC 3.06 (TTU 8.2)     | Yes             |                                                                                                                           |
|                                          | NCR Teradata JDBC 3.04 (TTU 8.2)     | Yes             |                                                                                                                           |
| Teradata 12.0                            | Teradata ODBC TTU 12.00.00.01        | Yes             |                                                                                                                           |
|                                          | Teradata JDBC TTU 12.00.00.01        | Yes             |                                                                                                                           |
| Teradata 13.0                            | Teradata ODBC (TTU 13.00.00.2)       | Yes             |                                                                                                                           |
|                                          | Teradata JDBC (TTU 13.00.00.7)       | Yes             |                                                                                                                           |
| Teradata 13.1                            | Teradata ODBC (TTU 13.00.00.2)       | Yes             | Compatible support with <a href="#">respect</a> to Teradata 13.0                                                          |
|                                          | Teradata JDBC (TTU 13.00.00.7)       | Yes             |                                                                                                                           |
| Netezza NPS Server 4.0                   | Netezza ODBC 4.01                    | Yes             |                                                                                                                           |
|                                          | Netezza JDBC Access                  | Yes             |                                                                                                                           |
| Netezza NPS Server 4.5                   | Netezza ODBC 4.5                     | Yes             |                                                                                                                           |
|                                          | Netezza JDBC 4.5                     | Yes             |                                                                                                                           |
| Oracle 11g R2 (11.2)                     | JDBC Oracle 11G R1 (4)               | Yes             | Compatible support with <a href="#">respect</a> to "Oracle 11gR1".<br>(Access requires user/pass for Oracle support site) |
|                                          | ODBC Oracle 11G R1 (4)               | Yes             |                                                                                                                           |
|                                          | OLEDB Oracle 11G R1 (4)              | Yes             |                                                                                                                           |

| Provider Name                        | Data Connector                  | Unicode Support | Remarks |
|--------------------------------------|---------------------------------|-----------------|---------|
|                                      | Oracle Native Client 11G R1 (4) | Yes             |         |
| Oracle 11g R1 (11.1)                 | JDBC Oracle 11G R1 (4)          | Yes             |         |
|                                      | ODBC Oracle 11G R1 (4)          | Yes             |         |
|                                      | OLEDDB Oracle 11G R1 (4)        | Yes             |         |
|                                      | Oracle Native Client 11G R1 (4) | Yes             |         |
|                                      | DataDirect ODBC 5.3 (3) (4)     | Yes             |         |
| Oracle 10g R1 (10.1)                 | JDBC Oracle 10.1 (4)            | Yes             |         |
|                                      | ODBC Oracle 10.1 (4)            | Yes             |         |
|                                      | OLEDDB Oracle 10.1 (4)          | Yes             |         |
|                                      | Oracle Native Client 10.1 (4)   | Yes             |         |
|                                      | DataDirect ODBC 5.3 (3) (4)     | Yes             |         |
| Oracle 10g R2 (10.2)                 | JDBC Oracle 10.2 (4)            | Yes             |         |
|                                      | ODBC Oracle 10.2 (4)            | Yes             |         |
|                                      | OLEDDB Oracle 10.2 (4)          | Yes             |         |
|                                      | Oracle Native Client 10.2 (4)   | Yes             |         |
|                                      | DataDirect ODBC 5.3 (3) (4)     | Yes             |         |
| Oracle 9.2                           | JDBC Oracle 9.2                 | Yes             |         |
|                                      | ODBC Oracle 9.2                 | Yes             |         |
|                                      | OLEDDB Oracle 9.2               | Yes             |         |
|                                      | Oracle Native Client 9.2        | Yes             |         |
|                                      | DataDirect ODBC 5.3 (3)         | Yes             |         |
| Progress OpenEdge 10.0B              | OpenEdge SQL 10.0B ODBC         | Yes             |         |
|                                      | OpenEdge SQL 10.0B JDBC         | Yes             |         |
| PostgreSQL 8.2                       | PostgreSQL 8.2 ODBC             | Yes             |         |
|                                      | PostgreSQL 8.2 JDBC             | Yes             |         |
| Sybase Adaptive Server Enterprise 15 | Sybase Open Client 15           |                 |         |
| <b>Technology</b>                    |                                 |                 |         |
| ADO. NET                             | MS .NET Framework 1.0           | Yes             |         |
|                                      | MS .NET Framework 1.1           | Yes             |         |
|                                      | MS .NET Framework 2.0           | Yes             |         |
| COM                                  | N/A                             | Yes             |         |
| Microsoft Excel 2000                 | DAO 3.6                         | Yes             |         |
|                                      | ODBC                            | Yes             |         |
|                                      | OLEDDB                          | Yes             |         |
| Microsoft Excel 2003                 | DAO 3.6                         | Yes             |         |
|                                      | ODBC                            | Yes             |         |

| Provider Name            | Data Connector                          | Unicode Support | Remarks |
|--------------------------|-----------------------------------------|-----------------|---------|
|                          | OLEDDB                                  | Yes             |         |
| Microsoft Excel 2007 (2) | ODBC                                    |                 |         |
|                          | OLEDDB                                  |                 |         |
| Microsoft Exchange 2000  | Crystal Reports Outlook/Exchange driver |                 |         |
| Microsoft Exchange 2003  | Crystal Reports Outlook/Exchange driver | Yes             |         |
| Field Definitions        | N/A                                     | Yes             |         |
| Java Bean                | JDK 1.5                                 | Yes             |         |
| Salesforce.com           | Crystal Reports Salesforce.com driver   | Yes             |         |
| XML                      | JDK 1.5                                 | Yes             |         |

(1) IBM DB2 v9.1 requires a minimum of Windows 2003 SP1 to be the Operating System for Windows deployments.

(2) DAO technology cannot be used to access the Microsoft Office 2007 file formats: Microsoft Access 2007 .accdb, Microsoft Excel 2007 .xlsx (XML) and .xlsb (Binary). These file formats are supported via ODBC and OLEDDB.

(3) DataDirect drivers for Crystal Reports are available from SAP Business Objects. See the Crystal Reports Start Page for download details.

(4) Oracle Real Application Cluster (RAC) is supported.

(5) Supported for all operating systems listed in the Supported Operating Systems section, except Linux (Red Hat/SUSE).

### Crystal Reports Reporting Data Sources Supported for Scheduling Only

| Provider Name                    | Data Connector                          | Unicode Support |
|----------------------------------|-----------------------------------------|-----------------|
| <b>RDBMS</b>                     |                                         |                 |
| IBM Informix Dynamic Server 10.0 | IDS Client 10.0                         |                 |
| <b>Technology</b>                |                                         |                 |
| ACT 6                            | ACT 6                                   |                 |
| Borland Database Engine 5.1      | BDE 5.1                                 |                 |
| Microsoft Exchange 5.5           | Crystal Reports Outlook/Exchange driver |                 |
| File System                      | N/A                                     | Yes             |
| Lotus Notes 6                    | ODBC Lotus Notes 6                      | Yes             |
| Lotus Notes 7                    | ODBC Lotus Notes 7                      | Yes             |
| Microsoft IIS Log                | N/A                                     |                 |
| Microsoft Outlook 2000           | Microsoft Office 2000                   |                 |
| Microsoft Outlook 2003           | Microsoft Office 2003                   |                 |
| Microsoft Outlook 2007           | Microsoft Office 2007                   |                 |

| Provider Name                         | Data Connector                        | Unicode Support |
|---------------------------------------|---------------------------------------|-----------------|
| Microsoft Outlook 2010 (as of FP 3.4) | Microsoft Office 2010                 |                 |
| NT Event Log                          | N/A                                   |                 |
| Pervasive SQL 2000                    | ODBC Pervasive 2000                   | Yes             |
|                                       | Pervasive SQL Client 2000             |                 |
| Pervasive SQL 8                       | ODBC Pervasive 8                      | Yes             |
| Pervasive SQL 10                      | ODBC Pervasive 10                     | Yes             |
|                                       | OLDEDB Pervasive 10                   | Yes             |
|                                       | JDBC Pervasive 10                     | Yes             |
|                                       | Pervasive SQL Client 10               | Yes             |
| Salesforce.com                        | Crystal Reports Salesforce.com driver | Yes             |
| Text                                  | DataDirect ODBC 5.3                   | Yes             |
| Web Log                               | N/A                                   |                 |
| Xbase                                 | N/A                                   |                 |

### Scheduled and on demand reporting

Schedule 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 Reports instances as concurrent on-demand reports will be handled in parallel.

### Generic ODBC, OLEDB and JDBC: Limitation

(OLEDB and JDBC Supported for Crystal Reports Only)

(ODBC Supported for Crystal Reports, Desktop Intelligence and Web Intelligence 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.

### OLAP Data Sources for Voyager

| Provider Name                 | Data Connector                                      |
|-------------------------------|-----------------------------------------------------|
| EPM MDX Connector             | SAP BusinessObjects EPM Profitability MDX 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                         |

| Provider Name                            | Data Connector                                                      |
|------------------------------------------|---------------------------------------------------------------------|
| MS SQL Server Analysis Services 2000 SP4 | Microsoft SQL Server 2000 Analysis Services 8.0 OLE DB Provider SP4 |
| MS SQL Server Analysis Services 2005 SP1 | Microsoft SQL Server 2005 Analysis Services 9.0 OLE DB Provider SP1 |
| MS SQL Server Analysis Services 2005 SP2 | Microsoft SQL Server 2005 Analysis Services 9.0 OLE DB Provider SP2 |
| MS SQL Server Analysis Services 2008     | Microsoft SQL Server 2008 Analysis Services 10.0 OLE DB Provider    |

**Note:** SAP BusinessObjects Voyager now has added connectivity support to the SAP BusinessObjects Profitability application on Windows only. Refer to release notes for more details.

## Support for SAP Application Servers

SAP BusinessObjects Integration XI, version 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 SAP BusinessObjects Integration XI, version for SAP solutions, please visit the [support area](#) of the website.

The following list of products is applicable to SAP application server support:

- Crystal Reports (OLAP and Relational)
- Dashboard Builder (OLAP)
- Live Office (OLAP and Relational)
- QaaWS (OLAP)
- Voyager (OLAP)
- Web Intelligence (OLAP)

## Other Tools

### Reverse Proxy Servers

- Apache HTTP Server 2.2
- WebSEAL 6.0 (from IBM Tivoli Access Manager)
- Microsoft Internet Security and Acceleration (ISA) Server 2006

### LDAP Directory

- IBM Tivoli Directory Server 5.2
- IBM Tivoli Directory Server 6.0
- IBM Tivoli Directory Server 6.1
- IBM Tivoli Directory Server 6.2
- 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

### Active Directory

- Microsoft Active Directory 2000
- Microsoft Active Directory 2003
- Microsoft Active Directory 2008 (including LDS support)

### Access Management

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

### Office

- Microsoft Office 2010 (starting with FP 3.4)\*\*
- Microsoft Office 2007 SP1
- Microsoft Office 2007 SP2 **Compatible Support\*** with respect to Microsoft Office 2007 SP1
- Microsoft Office 2003 SP3
- Microsoft Office XP SP3

~~• Microsoft Office XP SP2~~ Support EOL by Microsoft

\* **Compatible support** description in [Platforms and Technologies Support Policy Guidelines](#)

\*\* **Live Office** requires full install. Please consult Release notes.

### Desktop Virtualization Support

- Citrix Presentation Server 4 (1) (2)
- Citrix Presentation server 4.5 – 5 **Compatible Support\*** with respect to Citrix Presentation Server 4
- Windows Terminal Services (3)

(1) Citrix is supported for SAP BusinessObjects desktop and web client products only.

(2) Citrix is not supported for Chinese and Korean.

(3) Windows Terminal Services is supported on the versions of Windows Server listed in the Supported Operating Systems section above.

\***Compatible support** description in [Platforms and Technologies Support Policy Guidelines](#)

### Reader

- Acrobat Reader 8.1.2
- Acrobat Reader 9.0
- Acrobat Reader 9.1.x - 9.3.x **Compatible Support\*** with respect to Acrobat Reader 9.0

\* **Compatible Support** description in [Platforms and Technologies Support Policy Guidelines](#)

## **.NET Framework**

- .NET 1.1
- .NET 2.0
- .NET 3.0
- .NET 3.5



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