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# Business Objects Enterprise XI Release 2 SP5 for Windows

## Overview

This document lists specific platforms and configurations for Business Objects Enterprise XI Release 2 SP5 for Windows.

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# Introduction

This document contains information specific to platforms and configurations for the BusinessObjects Enterprise XI Release 2 SP5. 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 Products

- BusinessObjects Desktop Intelligence XI R2
- BusinessObjects Enterprise XI (Win32 Clients) R2
- BusinessObjects Live Office XI R2
- BusinessObjects OLAP Intelligence XI R2 (2)
- BusinessObjects Set Architect XI R2
- BusinessObjects Set Analyzer XI R2
- Crystal Reports Designer XI R2
- Universe Builder BusinessObjects Data Integrator plug-in XI R2
- Universe Builder CWM OLAP plug-in XI R2
- Universe Builder CWM Relational plug-in XI R2
- Universe Builder DB2 Cube Views plug-in XI R2
- Universe Builder DB2 Data Warehouse Center plug-in XI R2
- Universe Builder Oracle Data Warehouse plug-in XI R2
- Universe Builder Oracle OLAP plug-in XI R2
- BusinessObjects Query as a Web Service (Client Tool) (1)

(1) BusinessObjects Query as a Web Service requires .NET Framework 1.1 and is available in English only.

(2) OLAP Intelligence has reached end-of-life as of XI R2 SP2. No new features or new platform support will be added for this product. For the list of platforms supported by OLAP Intelligence, please refer to SP2 platform support documentation. This can be found by visiting https://www.sdn.sap.com/irj/sdn/businessobjects-articles

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## Server Products

- BusinessObjects Enterprise XI R2
- BusinessObjects Web Intelligence XI R2
- Crystal Reports XI R2
- BusinessObjects Dashboard Manager XI R2
- BusinessObjects OLAP Intelligence (Server Components) XI R2 (2)
- BusinessObjects Performance Manager XI R2
- BusinessObjects Polestar (3)
- BusinessObjects Predictive Analysis XI R2
- BusinessObjects Process Analysis XI R2
- BusinessObjects Set Analysis (Server Components) XI R2
- BusinessObjects Encyclopedia XI R2
- BusinessObjects Process Tracker XI R2 (1)
- BusinessObjects Voyager

(1) Process Tracker is installed separately. Note that BusinessObjects Enterprise Premium XI Release 2 includes Process Tracker, where Process Tracker is currently not supported on IIS. (See Application Servers section below.)

(2) OLAP Intelligence has reached end-of-life as of XI R2 SP2. No new features or new platform support will be added for this product.

(3) Please refer to BusinessObjects Polestar Platform support document (referred as PAR)

# Languages

- Chinese Simplified
- Chinese Traditional
- Dutch
- English (1) (2)
- French
- German
- Italian
- Japanese
- Korean
- Polish
- Portuguese (Brazil)
- Russian

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- Spanish
- Swedish

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

(2) BusinessObjects Query as a Web Service (Client Tool) is supported in English only.

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# Supported Operating Systems

## Desktop Products

- Windows 2000 SP4 Professional
- Windows XP SP2 Professional
- Windows XP SP3 Professional
- Windows Vista (1)
- Windows Vista SP1 (1)
- Windows 2000 SP4 Advanced Server
- Windows 2000 SP4 Datacenter Server
- Windows 2000 SP4 Server
- Windows Server 2003 R2 Enterprise Edition (1)
- Windows Server 2003 SP1 (1)
- Windows Server 2003 SP2 (1)

(1) 32-bit and 64-bit O/S editions supported.

## Server Products

- Windows 2000 SP4 Advanced Server
- Windows 2000 SP4 Datacenter Server
- Windows 2000 SP4 Server
- Windows Server 2003 R2 Enterprise Edition (1)
- Windows Server 2003 SP1 (1)
- Windows Server 2003 SP2 (1)

(1) 32-bit and 64-bit O/S editions supported.

### BusinessObjects and Microsoft Critical Patches

The patch level necessary on Windows 2000 SP4 is Update Rollup 1 (KB891861).

BusinessObjects supports and recommends install of all Microsoft critical patches for the operating systems listed above.

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# Minimum Hardware Requirements for BusinessObjects Enterprise XI Release 2

- 700-MHz Pentium III-class processor
- 2 GB RAM
- 5.70 GB hard disk space for complete install (BusinessObjects Enterprise without Performance management)
- 6.70 GB hard disk space for complete install (BusinessObjects Enterprise with Performance management)
- 3.75 GB hard disk space for patch install

**Note:** Windows support is on 32-bit and 64-bit versions of Windows operating system. 32-bit Windows which are supported by BusinessObjects are ones that operate on either 32 or 64-bit (x64) AMD/Intel chipsets. 64-bit Windows which are supported by BusinessObjects are ones that operate on 64-bit (x64) AMD/Intel chipsets. . BusinessObjects Enterprise software for Windows is not warranted or supported for use on other chipsets.

# Supported Application Servers

| Application Servers | JDK |
|---|---|
| JBoss 4.0.4 | JDK 1.4.2_xx(2) |
| IIS 5.0 | N/A |
| IIS 6.0 | N/A |
| Oracle OAS 10G Rel.2 (10.1.2) | JDK 1.4.2_xx (2) |
| SAP WAS 6.40 SP19 | JDK 1.4.2_xx (1) |
| Tomcat 5.0.27 | JDK 1.4.2_13+ |
| | JDK 1.5.0_xx |
| Tomcat 5.5 | JDK 1.5.0_xx |
| WebLogic 8.1 SP4 | JDK 1.4.2_xx (2)<br>JRockit 1.4.2_xx (2) |
| WebLogic 9.2 | JDK 1.5.0_04+<br>JRockit 5.0+ |
| WebSphere 5.1.1.x (excluding 5.1.1.4) | JDK 1.4.2_xx |
| WebSphere 6.0.2.x | JDK 1.4.2_xx |
| WebSphere 6.1.0.7 | JDK 1.5.0_xx |

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(1) Not supported for Performance Management and Process Tracker

(2) Not supported for Process Tracker.

**Note:** Due to security vulnerabilities identified by the SANS Institute in JDK/JRE versions 1.4.2_12 and lower, BusinessObjects Enterprise XI Release 2 SP5 will ship with 1.4.2_13. It is recommended that any JVM be updated to a minimum of 1.4.2_13.

### Application Server Incremental Release Support Policy

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

### JDK Version Support Policy

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

### Specific Patches Required for Oracle Application Server

See release notes for exact patch level support.

### Support of IBM WebSphere and BEA WebLogic Editions

Network Editions of the Applications Server listed above are NOT supported. The Express Edition of WebSphere and WebLogic application servers are supported.

### IBM WebSphere 5.1.1.4 is not supported

Several issues have been found when applying the cf4 patchset for WebSphere 5.1.1. Moving forward to 5.1.1.5/6 or back to 5.1.1.3 both appears to fix the issue. In consequence BusinessObjects will not support this particular version of WebSphere. All other 5.1.1x versions are supported.

### Supported HTTP Servers

Any supported by Application Server vendor.

### BusinessObjects Web Services

BusinessObjects web services support only Java Web Application Servers

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# Supported Portal Servers

- Microsoft SharePoint Portal Server 2003 (32-bit editions only) (1)
- Microsoft Windows SharePoint Services (WSS 2.0) 2003 (32-bit only) (1)
- Microsoft SharePoint Portal Server 2007 (32-bit editions only) (1)
- Microsoft Windows SharePoint Services (WSS 3.0) 2007 (32-bit only) (1)(2)
- Oracle Portal Server 10g R2 (10.1.2) (JSR 168)
- SAP Portal Server 6 SP19
- BEA WebLogic Portal 8.1 SP4 (JSR 168)
- BEA WebLogic Portal 9.2 (JSR168)
- IBM WebSphere Portal 6 (JSR 168)
- IBM WebSphere Portal 6.1 (JSR 168/286)

(1) Portal Integration Kit for SharePoint supports 32-bit SharePoint running on either 32-bit or 64-bit Windows Servers provided SharePoint itself supports the operating system.

(2) Installation of the Portal Integration Kit for SharePoint Services (WSS 3.0) must be done via command line installation using the following syntax (setup.exe SP2007=1)

## Portal Server Minor Release Support Policy

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

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# Supported Browsers

| Browser OS | Browser | JVM |
|---|---|---|
| Macintosh | Safari 3.0 (2) (5) | Apple 1.4.2_xx<br>Apple 1.5.0_xx |
| | Safari 3.1 (5) | Apple 1.4.2_xx<br>Apple 1.5.0_xx<br>Apple 1.6.0_xx |
| Windows | Firefox 2.0 (1)(4) | Sun 1.5.0_xx<br>Sun 1.6.0_02+ |
| | Firefox 3.0 (1)(5) | Sun 1.5.0_xx<br>Sun 1.6.0_02+ |
| | IE 6.0 SP2 | Sun 1.4.2_xx<br>Sun 1.5.0_xx<br>Sun 1.6.0_02+ |
| | IE 7.0 (3) | Sun 1.4.2_xx<br>Sun 1.5.0_xx<br>Sun 1.6.0_02+ |

(1) SVG is not supported (EPM).

(2) Supported for Infoview only

(3) Browser not supported for OLAP Intelligence and Process Tracker.

(4) Not Supported for EPM products and Process Tracker

(5) Not Supported for Voyager

## Restriction of Crystal Reports Explorer

Please note that the Crystal Reports Explorer add-on leverages IE specific components and will not work with any browsers other than IE.

## SVG and Flash support for EPM

SVG version 3.0.3 and above are supported for Internet Explorer. Flash version 7 and above are supported for Internet Explorer and Firefox.

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# Data Source Middleware Support

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 BusinessObjects Enterprise Suite products are designed to exclusively use 64-bit data source middleware connectivity.

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# CMS Database (Repository) & Audit Supported 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 |
| Microsoft SQL Server 2000 SP4 | Microsoft ODBC MDAC 2.8 |
| Microsoft SQL Server 2005 RTM / SP1 / SP2 | Microsoft ODBC MDAC 2.8<br><br>Microsoft ODBC SNAC (Native Client) |
| Microsoft SQL Server 2008 | Microsoft ODBC MDAC 2.8 |
| MySQL 4.1.23 | 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 | Oracle NET Client 11 (1) |
| Sybase Adaptive Server Enterprise 12.5.2 | Sybase Open Client 12.5.2 |
| Sybase Adaptive Server Enterprise 15 | Sybase Open Client 12.5.2 |

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

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# Performance Management Repository Supported Databases

| 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 |
| | Microsoft ODBC MDAC 2.8 |
| Microsoft SQL Server 2000 SP4 | Microsoft OLEDB MDAC 2.8 |
| Microsoft SQL Server 2005 RTM / SP1 / SP2 | Microsoft OLEDB MDAC 2.8 |
| | Microsoft OLEDB SNAC (Native Client) |
| | Microsoft ODBC MDAC 2.8 |
| | Microsoft OLEDB MDAC 2.8 |
| Microsoft SQL Server 2008 | Microsoft ODBC MDAC 2.8 |
| | Microsoft ODBC SNAC (Native Client) |
| NCR Teradata V2R6 | NCR Teradata ODBC 3.04 |
| NCR Teradata V2R6.1 | NCR Teradata ODBC 3.05 |
| NCR Teradata V2R6.2 | NCR Teradata ODBC 3.06 |
| Teradata v12 | Teradata ODBC 12 ( TTU 12.0) |
| 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 | Oracle NET Client 11 (1) |
| 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

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

| Provider Name | Data Connector |
|---|---|
| Oracle 9.2 | Oracle NET Client 9.2 |
| Oracle 10g R1 (10.1) | Oracle NET Client 10.1 |
| Oracle 10g R2 (10.2) | Oracle NET Client 10.2 |
| Oracle 11g | Oracle NET Client 11 |
| Microsoft SQL Server 2000 SP4 | Microsoft ODBC MDAC 2.8 |
| | Microsoft OLEDB MDAC 2.8 |
| Microsoft SQL Server 2005 | Microsoft ODBC MDAC 2.8 |
| | Microsoft ODBC SNAC (native client) |
| | Microsoft OLEDB MDAC 2.8 |
| | Microsoft OLEDB SNAC (native client) |
| Microsoft SQL Server 2008 | Microsoft ODBC MDAC 2.8 |
| IBM DB2/UDB for NT/Unix 8.2 | DB2 Client 8.1 |
| | DB2 Client 8.2 |
| IBM DB2/UDB for NT/Unix 9.1 | DB2 Client 8.1 |
| | DB2 Client 9.1 (1) (2) |
| IBM DB2/UDB for NT/Unix 9.5 | DB2 Client 9.1 |
| | DB2 Client 9.5 |
| NCR Teradata V2R6 | NCR Teradata ODBC 3.04 |
| NCR Teradata V2R6.1 | NCR Teradata ODBC 3.05 |
| NCR Teradata V2R6.2 | NCR Teradata ODBC 3.06 |
| Sybase Adaptive Server Enterprise 12.5 | Sybase Open Client 12.5 |
| Sybase Adaptive Server Enterprise 12.5.1 | Sybase Open Client 12.5.1 |
| Sybase Adaptive Server IQ 12.7 | Sybase ODBC 9 for Adaptive Server IQ 12.7 |

Please see release notes for Oracle and DB2 connectivity for this product.

(1) Supported for Set Analysis.

(2) Supported for Set Analyzer

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# Web Intelligence, Desktop Intelligence and Performance Management Data Sources

| Provider Name | Data Connector | Unicode Support |
|---|---|---|
| **OLAP** | | |
| Hyperion Essbase Server 7.0 | Hyperion Essbase API 7.0 (1) | |
| Hyperion Essbase Server 7.1.x | Hyperion Essbase API 7.1.x (1) | |
| Microsoft SQL Server Analysis Services 2000 SP4 | MS SQL Server OLAP Client 2000 SP4 (1) | |
| SAP BW Server 3.5 | SAP GUI 640 (1) | |
| SAP BI 7 SP10 | SAP GUI 640(1) | |
| **RDBMS** | | |
| Generic ODBC Data Sources | UNIX ODBC or DataDirect ODBC manager (2) | |
| BusinessObjects Data Federator XI Release 2 | ODBC for Data Federator | |
| HP NeoView 2.2 | HP NeoView ODBC 2.2 (5) | Yes |
| HP NeoView 2.3.1 | HP NeoView ODBC 2.3.1 (5) | Yes |
| Ingres 2006 Enterprise Release 2 | Ingres ODBC driver 3.5 | Yes |
| IBM DB2/UDB for iSeries 5.2 | DB2 Client 8.1 | |
| | DB2 ODBC Client 8.1 | |
| | IBM iSeries Access (ODBC) 5.2 | |
| IBM DB2/UDB for iSeries 5.3 | DB2 Client 8.2 | |
| | DB2 ODBC Client 8.2 | |
| | IBM iSeries Access (ODBC) 5.3 | |
| IBM DB2/UDB for NT/Unix/Linux 8.2 | DB2 Client 8.2 | Yes |
| | DB2 ODBC Client 8.2 | Yes |
| IBM DB2/UDB for NT/Unix/Linux 9.1 | DB2 Client 9.2 | Yes |
| | DB2 ODBC Client 9.1 | Yes |
| IBM DB2/UDB for NT/Unix/Linux 9.5 | DB2 Client 9.5 | Yes |
| | DB2 ODBC Client 9.5 | Yes |
| IBM DB2/UDB for zSeries 8 | DB2 Client 8.2 (3) | |
| IBM Informix Dynamic Server 9.4 | IBM Informix ODBC SDK 2.81 | |
| IBM Informix Dynamic Server 10.0 | DB2 ODBC Client 8.2 (3) | |
| | IBM Informix ODBC SDK 2.90 | |
| IBM Informix XPS 8.40 | IBM Informix ODBC SDK 2.81 | |
| IBM Informix XPS 8.50 | IBM Informix ODBC SDK 2.90 | |

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| Provider Name | Data Connector | Unicode Support |
|---|---|---|
| IBM Red Brick Decision Server 6.3 | IBM Red Brick ODBC 5 | |
| Microsoft Access 2003 | Microsoft ODBC MDAC 2.8 (2) | |
| Microsoft SQL Server 2000 SP4 | Microsoft ODBC MDAC 2.8 | Yes |
| Microsoft SQL Server 2005 RTM / SP1 / SP2 | Microsoft OLEDB MDAC 2.8 | Yes |
| | Microsoft ODBC MDAC 2.8 | Yes |
| Microsoft SQL Server 2008 | Microsoft ODBC SNAC (native client) | Yes |
| | Microsoft OLEDB MDAC 2.8 | Yes |
| | Microsoft OLEDB SNAC (native client) | Yes |
| | Microsoft ODBC MDAC 2.8 | Yes |
| MySQL 4.1.10a | Microsoft OLEDB MDAC 2.7 | |
| | MySQL ODBC Connector 3.51.12 | |
| MySQL 4.1.13a | MySQL ODBC Connector 3.51.12 | |
| MySQL 4.1.23 | MySQL ODBC Connector 3.51.12 | |
| MySQL 5.0 | MySQL ODBC Connector 3.51.12 | Yes |
| | MySQL ODBC Connector 5.1.4 | |
| NCR Teradata V2R6 | NCR Teradata ODBC 3.04 | Yes |
| NCR Teradata V2R6.1 | NCR Teradata ODBC 3.05 | Yes |
| NCR Teradata V2R6.2 | NCR Teradata ODBC 3.06 | Yes |
| Teradata v12 | Teradata ODBC 12 ( TTU 12.0) | Yes |
| Netezza NPS Server 3.1 | Netezza ODBC 3.1(5) | Yes |
| Netezza NPS Server 4.0 | Netezza ODBC 4.0(5) | Yes |
| Netezza NPS Server 4.5 | Netezza ODBC 4.5 (5) | Yes |
| Oracle 9.2 | Oracle NET Client 9.2 | Yes |
| Oracle 10g R1 (10.1) | Oracle NET Client 10.1(6) | Yes |
| Oracle 10g R2 (10.2) | Oracle NET Client 10.2(6) | Yes |
| Oracle 11g | Oracle NET Client 11 (6) | Yes |
| Sybase Adaptive Server Enterprise 12.5 | Sybase Open Client 12.5 | |
| Sybase Adaptive Server Enterprise 15 | Sybase Open Client 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 | |

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| Provider Name | Data Connector | Unicode Support |
|---|---|---|
| Sybase SQL Anywhere (ASA) 10 | Sybase ODBC 9 for Adaptive Server IQ 12.7 (4) | |

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

(2) Connectivity not supported by EPM.

(3) Connectivity not supported for Performance Manager. Other EPM products are supported.

(4) Not supported for Performance Management.

(5) Not supported for Predictive Analysis and Set Analysis

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

## Support of SAP BW Server

BusinessObjects XI R2 Integration Kit for SAP MUST be installed in order to use SAP BW Server as a data source from Web Intelligence, Crystal Reports, Desktop Intelligence, Voyager and OLAP Intelligence products. The exact patch levels required for SAP BW servers and API are specified in the platforms.txt for BusinessObjects XI R2 Integration Kit for SAP.

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# Source and Data Model Versions for Universe Builder

| Meta Data Model | Database | Middleware |
|---|---|---|
| **Universe Builder BusinessObjects Data Integrator Plug-in** | | |
| CWM from BusinessObjects Data Integrator 6.X/XI/XIR2 | N/A | N/A |
| **Universe Builder CWM OLAP Plug-in** | | |
| CWM OLAP 1.0 | N/A | N/A |
| CWM OLAP 1.1 | N/A | N/A |
| **Universe Builder CWM Relational Plug-in** | | |
| CWM 1.0 | N/A | N/A |
| CWM 1.1 | N/A | N/A |
| **Universe Builder DB2 Cube Views Plug-in** | | |
| IBM DB2 Cube Views 8.1 | IBM DB2/UDB for NT/Unix 8.1 | DB2 Client 8.1 |
| **Universe Builder DB2 Data Warehouse Center Plug-in** | | |
| CWM from DB2 Data Warehouse Center 8.X | N/A | N/A |
| **Universe Builder Oracle Data Warehouse Plug-in** | | |
| OLAP/Relational CWM from Oracle Warehouse Builder 10g | N/A | N/A |
| OLAP/Relational CWM from Oracle Warehouse Builder 9i | N/A | N/A |
| **Universe Builder Oracle OLAP Plug-in** | | |
| 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.O:

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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.

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# Crystal Reports Supported Data Sources (OLAP)

| Provider Name | Data Connector | Unicode Support |
|---|---|---|
| Hyperion Essbase Server 7.0 | Hyperion Essbase API 7.0 | Yes |
| Hyperion Essbase Server 7.1.x | Hyperion Essbase API 7.1.x | Yes |
| 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[1] | Microsoft SQL Server 2005 Analysis Services 9.0 OLE DB Provider SP1 | Yes |
| Microsoft SQL Server Analysis Services 2005 SP2[1] | Microsoft SQL Server 2005 Analysis Services 9.0 OLE DB Provider SP2 | Yes |
| SAP BW Server 3.5 | SAP GUI 640 | Yes |
| SAP BI 7 SP10 | SAP GUI 640 | Yes |

**1** -The minimum version level for Microsoft SQL Server Analysis Services 2005 is SP1. The 2005 RTM version is not supported.

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# Crystal Reports Supported Data Sources (RDBMS)

| | | |
|---|---|---|
| Generic JDBC Data Sources | JDK 1.4 | Yes |
| Generic ODBC Data Sources | ODBC | Yes |
| Generic OLEDB Data Sources | OLEDB | Yes |
| HP NeoView 2.2 | HP NeoView ODBC 2.2 | Yes |
| HP NeoView 2.3.1 | HP NeoView ODBC 2.3.1 | Yes |
| Ingres 2006 Enterprise Release 2 | Ingres ODBC driver 3.5 | Yes |
| IBM DB2/UDB for iSeries 5.2 | DB2 Client 8.1 | Yes |
| | IBM iSeries Access (JDBC) 5.2 | Yes |
| | IBM iSeries Access (ODBC) 5.2 | Yes |
| | IBM iSeries Access (OLEDB) 5.2 | Yes |
| | DB2 ODBC Client 8.1 | Yes |
| IBM DB2/UDB for iSeries 5.3 | DB2 Client 8.2 | Yes |
| | IBM iSeries Access (JDBC) 5.3 | Yes |
| | IBM iSeries Access (ODBC) 5.3 | Yes |
| | IBM iSeries Access (OLEDB) 5.3 | Yes |
| | DB2 ODBC Client 8.2 | Yes |
| IBM DB2/UDB for NT/Unix/Linux 8.2 | DB2 Client 8.2 | Yes |
| | DB2 JDBC 8.2 | Yes |
| | DB2 ODBC Client 8.2 | Yes |
| | DB2 OLEDB 8.2 | Yes |
| IBM DB2/UDB for NT/Unix/Linux 9.1 (1) | DB2 Client 9.1 | Yes |
| | DB2 JDBC 9.1 | Yes |
| | DB2 ODBC Client 9.1 | Yes |
| | DB2 OLEDB 9.1 | Yes |
| IBM DB2/UDB for NT/Unix/Linux 9.5 | DB2 Client 9.5 | Yes |
| | DB2 JDBC 9.5 | Yes |
| | DB2 ODBC Client 9.5 | Yes |
| | DB2 OLEDB 9.5 | Yes |
| IBM/DB2/UDB for zSeries 8 | DB2 Client 8.2 | Yes |
| | DB2 ODBC Client 8.2 | Yes |
| IBM Informix Dynamic Server 10.0 | IBM Informix ODBC SDK 2.90 | Yes |
| IBM Informix Dynamic Server 9.4 | IBM Informix ODBC SDK 2.81 | Yes |
| Microsoft Access 2000 | DAO 3.6 | Yes |
| | Microsoft ODBC Access 2000 | Yes |
| | Microsoft OLEDB Access 2000 | Yes |
| Microsoft Access 2003 | DAO 3.6 | Yes |
| | Microsoft ODBC Access 2003 | Yes |
| | Microsoft OLEDB Access 2003 | Yes |
| Microsoft SQL Server 2000 SP4 | JDBC SQL Server 2000 | Yes |

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| | | |
|---|---|---|
| | Microsoft ODBC MDAC 2.8 | Yes |
| | Microsoft OLEDB MDAC 2.8 | Yes |
| Microsoft SQL Server 2005 RTM / SP1 /SP2 | 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 |
| Microsoft SQL Server 2008 | Microsoft ODBC MDAC 2.8 | Yes |
| | Microsoft OLEDB MDAC 2.8 | Yes |
| MySQL 4.1.10a | JDBC MySQL | Yes |
| | MySQL ODBC Connector 3.51.12 | Yes |
| MySQL 4.1.13a | JDBC MySQL | Yes |
| | MySQL ODBC Connector 3.51.12 | Yes |
| MySQL 4.1.23 | JDBC MySQL | Yes |
| | MySQL ODBC Connector 3.51.12 | Yes |
| MySQL 5.0 | MySQL ODBC Connector 3.51.12 | Yes |
| | MySQL ODBC Connector 5.1.4 | Yes |
| | MySQL AB JDBC V5.0 | Yes |
| NCR Teradata V2R6 | NCR Teradata JDBC 03.02.00 | Yes |
| | NCR Teradata ODBC 3.04 | Yes |
| NCR Teradata V2R6.1 | NCR Teradata ODBC 3.05 | Yes |
| NCR Teradata V2R6.2 | NCR Teradata ODBC 3.06 | Yes |
| Teradata V12 | Teradata ODBC 12 ( TTU 12.0 ) | Yes |
| | Teradata JDBC 12 ( TTU 12.0 ) | Yes |
| Netezza NPS Server 3.1 | Netezza ODBC 3.1 | Yes |
| Netezza NPS Server 4.0 | Netezza ODBC 4.0 | Yes |
| Netezza NPS Server 4.5 | Netezza ODBC 4.5 | Yes |
| | Netezza JDBC Access | Yes |
| Oracle 9.2 | JDBC Oracle 9.2 | Yes |
| | ODBC Oracle 9.2 | Yes |
| | OLEDB Oracle 9.2 | Yes |
| | Oracle NET Client 9.2 | Yes |
| Oracle 10g R1 (10.1) (2) | JDBC Oracle 10.1 | Yes |
| | ODBC Oracle 10.1 | Yes |
| | OLEDB Oracle 10.1 | Yes |
| | Oracle NET Client 10.1 | Yes |
| Oracle 10g R2 (10.2) (2) | JDBC Oracle 10.2 | Yes |

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| | | |
|---|---|---|
| | ODBC Oracle 10.2 | Yes |
| | OLEDB Oracle 10.2 | Yes |
| | Oracle NET Client 10.2 | Yes |
| Oracle 11g (2) | JDBC Oracle 11 | Yes |
| | ODBC Oracle 11 | Yes |
| | OLEDB Oracle 11 | Yes |
| | Oracle NET Client 11 | Yes |
| Sybase Adaptive Server Enterprise 12.5 | JDBC Sybase 12.5 | Yes |
| | ODBC Sybase 12.5 | Yes |
| | Sybase Open Client 12.5 | |
| Sybase Adaptive Server Enterprise 15 | Sybase Open Client 15 | |
| **Technology** | | |
| 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 |
| | OLEDB | Yes |
| Microsoft Excel 2003 | DAO 3.6 | Yes |
| | ODBC | Yes |
| | OLEDB | Yes |
| Microsoft Exchange 2000 | Microsoft Office 2000 | |
| Microsoft Exchange 2003 | Microsoft Office 2003 | Yes |
| Field Definitions | N/A | Yes |
| Java Bean | JDK 1.4 | Yes |
| XML and Web Services | JDK 1.4 | Yes |
| Pervasive SQL 10 | ODBC Pervasive 10 | Yes |
| | Pervasive SQL Client 10 | |

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

(2) Oracle Real Application Cluster (RAC) is supported

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# Crystal Reports Reporting Data Sources Supported for Scheduling Only

| Provider Name | Data Connector | Unicode Support |
|---|---|---|
| **RDBMS** | | |
| IBM Informix Dynamic Server 10.0 | IDS Client 10.0 | |
| IBM Informix Dynamic Server 9.4 | IDS Client 9.4 | |
| **Technology** | | |
| ACT 5 | ACT 5 | |
| ACT 6 | ACT 6 | |
| Borland Database Engine 5.1 | BDE 5.1 | |
| Exchange 5.5 | Microsoft Office 2000 | |
| File System | N/A | Yes |
| Lotus Notes 5 | ODBC Lotus Notes 5 | Yes |
| Lotus Notes 6 | ODBC Lotus Notes 6 | Yes |
| Microsoft IIS Log | N/A | |
| Microsoft Outlook 2000 | Microsoft Office 2000 | |
| Microsoft Outlook 2003 | Microsoft Office 2003 | |
| Windows 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 Client 8 | |
| Text | ODBC | 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.

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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.

## Support of SAP BW Server

BusinessObjects XI R2 Integration Kit for SAP MUST be installed in order to use SAP BW Server as a data source from Web Intelligence, Crystal Reports, Desktop Intelligence, Voyager and OLAP Intelligence products. The exact patch levels required for SAP BW servers and API are specified in the Platforms.txt for BusinessObjects XI Release 2 Integration Kit for SAP.

## 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.

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# Voyager OLAP Connectivity

| Provider Name | Data Connector |
|---|---|
| Hyperion Essbase Server 7.0 | Hyperion Essbase API 7.0 |
| Hyperion Essbase Server 7.1.x | Hyperion Essbase API 7.1.x |
| Hyperion System 9 | Hyperion Essbase client 7.X or 9.0 client (working in backwards compatibility mode) |
| Microsoft SQL Server Analysis Services 2000 SP4 | Microsoft SQL Server 2000 Analysis Services 8.0 OLE DB Provider 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 |
| SAP BI 7 SP10 | SAP GUI 640 |
| SAP BW Server 3.5 | SAP GUI 640 |

**Note:** BusinessObjects Voyager now has added connectivity support to the BusinessObjects Profitability application on Windows only.

## Support of SAP BW Server

BusinessObjects XI R2 Integration Kit for SAP MUST be installed in order to use SAP BW Server as a data source from Web Intelligence, Crystal Reports, Desktop Intelligence and OLAP Intelligence products. The exact patch levels required for SAP BW servers and API are specified in the Platforms.txt for BusinessObjects XI Release 2 Integration Kit for SAP.

BusinessObjects XI R2 Integration Kit for SAP with the latest SP patch MUST be installed for Voyager to work with SAP BW as a data source.

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# Other Tools

## 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)
- Novell eDirectory 8.7.3
- Oracle Internet Directory 10gR2 (10.1.2)
- Sun Java System Directory Server 5.1
- Sun Java System Directory Server 5.2

## Active Directory

- Microsoft Active Directory 2000
- Microsoft Active Directory 2003
- Microsoft Active Directory 2003 R2

## Access Management

- eTrust (Netegrity) Siteminder 5.5
- eTrust (Netegrity) Siteminder 6.0

## Microsoft Office

- Microsoft Office 2000 SP3
- Microsoft Office 2003
- Microsoft Office 2003 SP1
- Microsoft Office 2003 SP2
- Microsoft Office XP
- Microsoft Office XP SP1
- Microsoft Office XP SP2
- Microsoft Office XP SP3
- Microsoft Office 2007

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## Admin Platform

- Citrix Metaframe XP 1.0 + FR3
- Citrix Metaframe XPE 1.0 + FR3
- Citrix Presentation Server 4.0

## Product/Language Support on Citrix

- Citrix is supported for desktop products, excluding BusinessObjects OLAP Intelligence Client and Set Architect.
- Citrix is not supported for Chinese and Korean.

## Adobe Reader

- Adobe Reader 7.0
- Adobe Reader 8.1.2
- Adobe Reader 9.0

## Microsoft .NET Framework

- .NET 1.0
- .NET 1.1
- .NET 2.0

## Development Platforms

- Visual Studio .NET 2002
- Visual Studio .NET 2003
- Visual Studio .NET 2005

**Note:** This section refers to the Visual Studio components that are included in Crystal Reports. These components are not supported when running in Visual Studio 2003 on Windows Vista, since Visual Studio 2003 doesn't support Windows Vista. For more information see the Microsoft Visual Studio and Windows Vista FAQ here:

http://msdn2.microsoft.com/en-us/vstudio/aa948854.aspx

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# File Transfer Protocol (FTP) Requirements

The following are the guidelines that must be supported by any FTP Server being used in conjunction with BusinessObjects Enterprise 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 BusinessObjects Enterprise.)
- FTP server needs to support specifying file names starting with a "~" character (if destination file names are generated randomly by BusinessObjects Enterprise.)

# 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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