

# SAP BusinessObjects Data Services XI 3.2 Supported Platforms – Linux 32-bit



## Applies to:

SAP BusinessObjects Data Services XI 3.2

For more information, visit the [Business Objects homepage](#).

## Summary

This document contains information specific to platforms and configurations for the SAP BusinessObjects Data Services XI 3.2 release (version 12.2.0.0) for Linux 32-bit

**Company:** SAP

**Created on:** 10 June 2009

## Table of Contents

|   |    |
|---|----|
| Introduction .....  | 3  |
| Products.....   | 3  |
| Languages .....   | 3  |
| Supported Operating Systems .....   | 4  |
| Desktop Products.....   | 4  |
| Server Products .....   | 4  |
| Patch Level for Linux 32-bit .....  | 4  |
| Minimum Hardware Requirements for SAP BusinessObjects Data Services XI 3.2.....   | 5  |
| Data Services Designer .....  | 5  |
| Data Services Job Server .....  | 5  |
| Data Services Access Server .....   | 5  |
| Data Services Management Console .....  | 5  |
| Data Services Address Server .....  | 5  |
| Disk Space Requirements for Referential Data .....                                | 6  |
| Repository Space Requirements for Data Cleansing Packages .....                   | 7  |
| Temporary Disk Space for Data Cleansing Package Installation <sup>(1)</sup> ..... | 7  |
| Supported Connectivity.....   | 8  |
| Supported Application Servers .....   | 8  |
| Application Server Incremental Release Support Policy .....                       | 8  |
| JDK Version Support Policy .....  | 8  |
| Supported Browsers.....   | 8  |
| Application Connectivity .....  | 9  |
| Database Connectivity .....   | 10 |
| Database Middleware Support.....  | 12 |
| Mainframe Connectivity.....   | 12 |
| Technology Connectivity .....   | 12 |
| Message Client Library Support.....   | 12 |
| Files Connectivity .....  | 13 |
| Files Connectivity .....  | 13 |
| Other Tools .....   | 13 |
| Simple Network Management Protocol.....   | 13 |
| Finding More Information.....   | 14 |
| Copyright.....  | 15 |

## Introduction

This document contains information specific to platforms and configurations for the SAP BusinessObjects Data Services XI 3.2 (version 12.2.0.0) release for Linux 32-bit. For the latest information on updates to this document, please visit the support area of the web site at: <http://service.sap.com/bosap-support>

**Note:** Anything that is highlighted using red font indicates that it is an update, addition or correction made after the prior release of the Supported Platforms document that was published with this product.

## Products

This information is specific to SAP BusinessObjects Data Services version 12.2.0.0.

## Languages

English

## Supported Operating Systems

### Desktop Products

The SAP BusinessObjects Data Services Designer component is supported on Windows only. For more information about these components, please check the SAP BusinessObjects Data Services Supported Platforms document on Windows available here:

[SAP - Business Objects Customer Support site](#)

### Server Products

- Red Hat Linux Enterprise Server 4
- Red Hat Linux Advanced Server 4
- Red Hat Linux Enterprise Server 5.0
- Red Hat Linux Advanced Server 5.0
- SuSE Enterprise Server 9 SP3
- SuSE Enterprise Server 10

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

### Patch Level for Linux 32-bit

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

| Platform /OS     | Achitecture | Mode               | Patch                              | Requirement             |
|------------------|-------------|--------------------|------------------------------------|-------------------------|
| Linux SuSE-9     | x86         | 32-bit &<br>64-bit | libgcc43-<br>4.3.2_20080703-6.1    | Critical                |
| Linux SuSE-9 SP1 | x86         | 32-bit &<br>64-bit | libstdc++43-<br>4.3.2_20080703-6.1 | Critical                |
| Linux (all)      | x86         | 32-bit &<br>64-bit | X Window, OpenGL<br>libraries      | Critical <sup>(1)</sup> |

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

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

 If you have missing libraries on your system, the dependent libraries can be found as operating system patches. As an example on Linux, the respective patches are:
- Linux RedHat 4:
    - X Window: xorg-x11-libs-6.8.1-23.EL or higher.
    - OpenGL: xorg-x11-Mesa-libGL-6.8.2-1.EL.13.20, xorg-x11-Mesa-libGLU-6.8.2-1.EL.13.20
  - SuSE 10:
    - X Window: xorg-x11-libs-6.9.0-50.58
    - OpenGL: Mesa-6.4.2-19.12, Mesa-6.4.2-19.12

## Minimum Hardware Requirements for SAP BusinessObjects Data Services XI 3.2

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

### Data Services Designer

The SAP BusinessObjects Data Services Designer component is supported on Windows only. For more information, please check the SAP BusinessObjects Data Services Supported Platforms document on Windows available here:

[SAP - Business Objects Customer Support site](#)

### Data Services Job Server

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

### Data Services Access Server

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

### Data Services Management Console

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

### Data Services Address Server

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

## Disk Space Requirements for Referential Data

| Referential Data                           | Drive Space | Comments  |
|--|-------------|---|
| U.S. Directory                             | 810 MB      |   |
| U.S. Z4 Change                             | 209 MB      |   |
| U.S. eLOT                                  | 494 MB      |   |
| U.S. DPV                                   | 660 MB      | If caching of DPV and LACSLink directories on UNIX platforms, it is recommended that "Data Segment Size" limits are set above 1 GB, especially with the use of higher Degree Of Parallelism values. Users can run "ulimit -d" to see what the "Data Segment Size" value is currently set to, "ulimit -d <value>" to set it to a new value and "ulimit -d unlimited" to allow the value to grow. |
| U.S. LACS <sup>Link</sup>                  | 473 MB      |   |
| U.S. Centroid Geo (2006-2007) – Tele Atlas | 708 MB      |   |
| U.S. Address Geo - Tele Atlas              | 4.75 GB     |   |
| US Geo Directory - NAVTEQ                  | 29 GB       |   |
| Australia Address Directory                | 206 MB      |   |
| Canada Address Directory                   | 43 MB       |   |
| Canada Geo Directory – NAVTEQ              | 2 GB        |   |
| France Geo Directory – NAVTEQ              | 2 GB        |   |
| Japan (Native Script) Address Directory    | 315 MB      | This is the directory for the addressing engine which handles native Japanese writing systems.  |
| Other International (All World) - Minimum  | 3.0 GB      | This is minimum directory requirements for the Global Address Cleanse transform (ga_country.dir, ga_loc12_gen.dir, ga_loc12_gen_nogit.dir, ga_loc34_gen.dir, ga_region_gen.dir).  |
| Other International (All World) - Maximum  | 10.3 GB     | There are many other countries and all are purchased individually. This is the space if all are purchased.  |

## Repository Space Requirements for Data Cleansing Packages

| Language   | Pre-Install Package (MB) | Oracle Repository Space (MB) | SQL Server Repository Space (MB) | DB2 Repository Space (MB) | MySQL Repository Space (MB) |
|------------|--------------------------|------------------------------|----------------------------------|---------------------------|-----------------------------|
| Arabic     | 25                       | 45                           | 145                              | 30                        | 45                          |
| Benelux    | 175                      | 280                          | 213                              | 210                       | 285                         |
| English    | 365                      | 660                          | 575                              | 505                       | 710                         |
| Danish     | 35                       | 55                           | 38                               | 35                        | 55                          |
| Dutch      | 70                       | 110                          | 325                              | 75                        | 110                         |
| French     | 55                       | 85                           | 250                              | 60                        | 80                          |
| German     | 220                      | 395                          | 350                              | 300                       | 430                         |
| Italian    | 45                       | 75                           | 235                              | 55                        | 75                          |
| Japanese   | 120                      | 195                          | 165                              | 135                       | 200                         |
| Portuguese | 50                       | 85                           | 285                              | 60                        | 80                          |
| Spanish    | 105                      | 185                          | 600                              | 130                       | 180                         |
| Swedish    | 20                       | 30                           | 25                               | 30                        | 30                          |
| Swiss      | 300                      | 380                          | 445                              | 395                       | 455                         |

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

| Language   | Oracle (MB) | SQL Server (MB) | DB2 (MB) | MySQL (MB) |
|------------|-------------|-----------------|----------|------------|
| Arabic     | 75          | 28              | 85       | 26         |
| Benelux    | 489         | 360             | 550      | 173        |
| English    | 1280        | 945             | 1260     | 470        |
| Danish     | 83          | 61              | 95       | 29         |
| Dutch      | 181         | 69              | 200      | 64         |
| French     | 143         | 54              | 160      | 50         |
| German     | 770         | 555             | 750      | 280        |
| Italian    | 145         | 100             | 145      | 50         |
| Japanese   | 330         | 245             | 320      | 113        |
| Portuguese | 125         | 48              | 170      | 44         |
| Spanish    | 316         | 120             | 350      | 111        |
| Swedish    | 45          | 35              | 55       | 20         |
| Swiss      | 933         | 675             | 1100     | 326        |

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

## Supported Connectivity

### Supported Application Servers

| Application Servers                  | JDK          |
|--------------------------------------|--------------|
| Tomcat 5.5                           | Sun 1.5.0_xx |
| WebLogic 9.2 MP2                     | Sun 1.5.0_xx |
|                                      | JRockit 5.0+ |
| WebLogic 10                          | Sun 1.5.0_xx |
|                                      | JRockit 5.0+ |
| WebSphere Application Server 6.1.0.7 | Sun 1.5.0_xx |

#### Application Server Incremental Release Support Policy

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

#### JDK Version Support Policy

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

### Supported Browsers

Browsers to access Data Services Management Console are supported on Windows only. For more information, please check the SAP BusinessObjects Data Services Supported Platforms document on Windows available here:

[SAP - Business Objects Customer Support site](#)



## Application Connectivity

| Data Source  | Version                            | Client  | Source | Target |
|--|------------------------------------|---|--------|--------|
| Oracle E-Business Suite  | 11i                                | Oracle Net Client   | x      | x      |
|  | Release 12                         | Oracle Net Client   | x      | x      |
| PeopleTools <sup>(1)</sup> to connect to PeopleSoft Applications | 8.40 or higher compatible versions | Oracle Net Client   | x      | x      |
| Salesforce.com   | 12.0                               | AppExchange API for Enterprise version 12.0                                     | x      | x      |
| SAP BW <sup>(2)</sup>  | 3.1c                               | RFC SDK 7.10 and JCO 3.0  | x      | x      |
|  | 3.5                                | RFC SDK 7.10 and JCO 3.0  | x      | x      |
| SAP Netweaver BW <sup>(2)</sup>                                  | 7.0                                | RFC SDK 7.10 and JCO 3.0  | x      | x      |
| SAP R/3 via ABAP <sup>(3)</sup>                                  | 3.1i                               | RFC SDK 7.10  | x      |        |
|  | 4.6                                | RFC SDK 7.10  | x      |        |
|  | 4.7                                | RFC SDK 7.10  | x      |        |
| SAP ERP via ABAP <sup>(3)</sup>                                  | ECC 5.0                            | RFC SDK 7.10  | x      |        |
|  | ECC 6.0                            | RFC SDK 7.10  | x      |        |
| SAP R/3 via IDOC <sup>(3)</sup>                                  | 3.1i                               | RFC SDK 7.10  | x      | x      |
|  | 4.6                                | RFC SDK 7.10  | x      | x      |
|  | 4.7                                | RFC SDK 7.10  | x      | x      |
| SAP ERP via IDOC <sup>(3)</sup>                                  | ECC 5.0                            | RFC SDK 7.10  | x      | x      |
|  | ECC 6.0                            | RFC SDK 7.10  | x      | x      |
| Siebel   | 7.5.2                              | DB2 Connect Enterprise or Personal edition, or Oracle Net Client <sup>(4)</sup> | x      | x      |
|  | 7.7                                | DB2 Connect Enterprise or Personal edition, or Oracle Net Client <sup>(4)</sup> | x      | x      |
|  | 8.0                                | DB2 Connect Enterprise or Personal edition, or Oracle Net Client <sup>(4)</sup> | x      | x      |

- (1) **SAP BusinessObjects Data Services with PeopleTools**  
 PeopleSoft 8 support is implemented for Oracle only. The version of the Oracle client connecting to the underlying PeopleSoft database must be supported by SAP BusinessObjects Data Services.  
 PeopleTools versions 8.40 and 8.49 were used in certification testing.  
 Certification for PeopleSoft is based on the version of PeopleTools used to connect to the PeopleSoft Applications. Please check with the vendor for PeopleSoft application versions which are compatible with the listed versions of PeopleTools.
- (2) **SAP BusinessObjects Data Services with SAP Netweaver Business Warehouse**  
 Loading SAP Netweaver Business Warehouse (BW) 7.0 is supported only for SAP BW 3.x data sources which can exist in BW 7.0 in emulation mode. Support for native SAP Netweaver BW 7.0 objects is not provided. Please check for updates in the Supported Platform documentation.  
 Extracting from SAP BW through Open Hub is only supported for SAP BW 7.0 and above, not for older versions  
 The RFC SDK and JCO libraries needed for SAP BW loading and extraction are now bundled with the Data Services install. Please refer to the Installation Guide for details on settings for the JCO library to be included in the system path.
- (3) **SAP BusinessObjects Data Services with SAP Netweaver ERP or R/3**

When using the “Direct Download” transport method or using the “Upload generated (ABAP) programs” functionality in an SAP Applications Datastore, the full SAP GUI library must be installed. If not accessing this functionality, the libraries required for connectivity, RFC SDK and JCO, are shipped and installed with Data Services.

- (4) **SAP BusinessObjects Data Services with Siebel**  
Siebel support is implemented for DB2, and Oracle only. The version of the database client connecting to the underlying Siebel database must be supported by SAP BusinessObjects Data Services.

## Database Connectivity

| Data Source <sup>(1)</sup>                                      | Version  | Client                             | Repo | Source | Target |
|---|----------|------------------------------------|------|--------|--------|
| ODBC to Generic Data Sources <sup>(2)</sup>                     | n/a      | DataDirect ODBC Driver V5.2        |      | X      | X      |
|   | n/a      | DataDirect ODBC Driver V5.3        |      | X      | X      |
|   | n/a      | SQL Anywhere 9.0.1                 |      | X      | X      |
| HP NeoView  | 2.3      | HP Neoview ODBC 2.3                |      | X      | X      |
|   | 2.4      | HP Neoview ODBC 2.4                |      | X      | X      |
| IBM DB2/UDB for iSeries   | 5.2      | IBM iSeries Access (ODBC) 5.2      |      | X      | X      |
|   | 5.2      | DB2 Connect Enterprise Edition 8.2 |      | X      | X      |
|   | 5.3      | IBM iSeries Access (ODBC) 5.3      |      | X      | X      |
|   | 5.3      | DB2 Connect Enterprise Edition 8.2 |      | X      | X      |
|   | 5.4      | IBM iSeries Access (ODBC) 5.4      |      | X      | X      |
|   | 5.4      | DB2 Connect Enterprise Edition 9.5 |      | X      | X      |
|   | 6.1      | DB2 iSeries Access (ODBC) 6.1      |      | X      | X      |
|   | 6.1      | DB2 Connect Enterprise Edition 9.5 |      | X      | X      |
| IBM DB2/UDB for Windows/UNIX/Linux                              | 8.2      | DB2 Connect Enterprise Edition 8.2 | X    | X      | X      |
|   | 8.2      | DB2 Connect Personal Edition 8.2   | X    | X      | X      |
|   | 9.1      | DB2 Connect Enterprise Edition 9.1 | X    | X      | X      |
|   | 9.1      | DB2 Connect Personal Edition 9.1   | X    | X      | X      |
|   | 9.5      | DB2 Connect Personal Edition 9.5   | X    | X      | X      |
|   | 9.5      | DB2 Connect Enterprise Edition 9.5 | X    | X      | X      |
| IBM DB2/UDB for zSeries   | 8.2      | DB2 Connect Enterprise Edition 9.5 |      | X      | X      |
|   | 8.2      | DataDirect ODBC Driver V5.3        |      | X      | X      |
| Informix IDS  | 7.3.1    | Informix Client 2.90               |      | X      | X      |
|   | 9.4      | Informix Client 2.90               |      | X      | X      |
|   | 10       | Informix Client 2.90               |      | X      | X      |
| Microsoft SQL Server via Data Direct ODBC Driver <sup>(7)</sup> | 2000 SP4 | DataDirect ODBC Driver V5.3        |      | X      | X      |
|   | 2005     | DataDirect ODBC Driver V5.3        |      | X      | X      |
|   | 2005 SP1 | DataDirect ODBC Driver V5.3        |      | X      | X      |

|  |               |   |   |   |   |
|--|---------------|---|---|---|---|
|  | 2005 SP2      | DataDirect ODBC Driver V5.3               |   | x | x |
|  | 2008          | DataDirect ODBC Driver V5.3               |   | x | x |
| MySQL  | 4.1           | MySQL ODBC Connector 3.51.10              |   | x | x |
|  | 5.0           | MySQL ODBC Connector 3.51.23              | x | x | x |
|  | 5.0           | MySQL ODBC Connector 3.51.24              | x | x | x |
|  | 5.0           | MySQL ODBC Connector 3.51.25              | x | x | x |
| Netezza <sup>(3)</sup>                           | NPS 3.1.4     | Netezza ODBC driver 3.1.4                 |   | x | x |
|  | NPS 4.0       | Netezza ODBC driver 4.0                   |   | x | x |
|  | NPS 4.5       | Netezza ODBC driver 4.5                   |   | x | x |
| Oracle   | 9.2           | Oracle Net Client 9.2                     | x | x | x |
|  | 10g R1 (10.1) | Oracle Net Client 10.1                    | x | x | x |
|  | 10g R2 (10.2) | Oracle Net Client 10.2                    | x | x | x |
|  | 11g           | Oracle Net Client 11                      | x | x | x |
| Sybase Adaptive Server Enterprise <sup>(4)</sup> | 12.5          | Sybase Open Client 12.5                   | x | x | x |
|  | 15.0          | Sybase Open Client 15.0                   | x | x | x |
| Sybase Adaptive Server IQ <sup>(5)</sup>         | 12.6          | Sybase ODBC 9 for Adaptive Server IQ 12.6 |   | x | x |
|  | 12.7          | Sybase ODBC 9 for Adaptive Server IQ 12.7 |   | x | x |
| Teradata <sup>(6)</sup>                          | V2R6          | Teradata ODBC 3.04                        |   | x | x |
|  | V2R6.1        | Teradata ODBC 3.05                        |   | x | x |
|  | V2R6.2        | Teradata ODBC 3.05                        |   | x | x |
|  | 12.0          | Teradata ODBC 12.0                        |   | x | x |

(1) SAP BusinessObjects Rapid Marts are only supported when the SAP BusinessObjects Data Services repository is:

- DB2
- Oracle
- SQL Server

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

(3) Netezza connectivity is not supported to Windows 64-bit servers due to limitations in the Netezza client.

(4) Sybase Adaptive Server Enterprise is not supported as a repository for the cleansing packages.

(5) Sybase IQ version 12.6 requires ESD 4.

(6) The following apply to SAP BusinessObjects Data Services support of Teradata as a source and/or target. The versions of Teradata TTU client supported include:

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

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

Teradata support requires the following patches:

On Linux:

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

- (7) Data Direct drivers are provided free of charge for use with Data Services to connect to MS SQL Server for Unix/Linux. Please check SDN for download and details on drivers and versions available: <http://www.sdn.sap.com/irj/boc/ds> (Downloads in the Knowledge Center).

For detailed configuration information, see [SAP Note 1305167](#) in the SAP Service Marketplace.

### Database Middleware Support

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

### Mainframe Connectivity

| Data Source | Version | Client               | Source | Target |
|-------------|---------|----------------------|--------|--------|
| Attunity    | 5.0     | Attunity Connect 5.0 | x      | x      |
|             | 5.1     | Attunity Connect 5.1 | x      | x      |

### Technology Connectivity

| Data Source         | Version             | Client | Source | Target |
|---------------------|---------------------|--------|--------|--------|
| HTTP/HTTPS          | 1.0                 | N/A    | x      | x      |
|                     | 1.1                 | N/A    | x      | x      |
| JMS                 | J2EE 1.5 compatible | N/A    | x      | x      |
| SOAP <sup>(1)</sup> | 1.1                 | N/A    | x      | x      |
| WSDL <sup>(1)</sup> | 1.1                 | N/A    | x      | x      |

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

### Message Client Library Support

| Message Client Library Support |                | Compiler Version                                   |
|--------------------------------|----------------|--|
| C++ API <sup>(1)</sup>         | Linux (32-bit) | g++ : gcc version 3.4.4 20050721 (Red Hat 3.4.4-2) |
| JAVA API                       | JDK 1.5.0.xx   | JAVA version 5.0                                   |

- (1) Additional message client libraries are available for other platforms as part of the Data Services Windows package. For more information please check the SAP BusinessObjects Data Services Supported Platforms document on Windows available here: [SAP - Business Objects Customer Support site](#)

## Files Connectivity

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

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

## Other Tools

### Simple Network Management Protocol

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

## Finding More Information

For more information and resources, refer to the product documentation and visit the support area of the web site at: <http://help.sap.com/>, or visit the [Business Objects homepage](#)

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