



What's New in SAP BusinessObjects XI 3.1 Service Pack 3

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Welcome to SAP
BusinessObjects XI 3.1
Service Pack 3



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chapter

SAP BusinessObjects Enterprise XI 3.1 Service Pack 3

This document provides an overview of the new features and enhancements available in SAP BusinessObjects XI 3.1 Service Pack 3 and directs you to the available product documentation to get you started using the new features.

For the list of support platforms and databases and application servers, refer to the *Supported Platforms and Technology document* for this release. It is available on the BusinessObjects Support section of the SAP Service Marketplace.

For more information about this release, refer to *SAP BusinessObjects XI 3.1 and Crystal Reports 2008 Service Pack 3 Known Issues and Limitations* and *SAP BusinessObjects XI 3.1 and Crystal Reports 2008 Service Pack 3 Fixed Issues*. These are available on the SAP Service Marketplace at: <http://service.sap.com/releasenotes>. Navigate to the BusinessObjects -> SAP BusinessObjects Business Intelligence (BI) section.

SAP BusinessObjects XI

SAP BusinessObjects Enterprise XI is the business intelligence platform that supports the entire range of performance management, reporting, querying, and analysis applications. It also provides industry-standard, proven architecture and platform support for semantic layers, data integration, and security. SAP BusinessObjects Enterprise XI provides full web-based administration and configuration of the entire system.

SAP BusinessObjects Enterprise XI 3.1 Service Pack 3:

- Extends the robust information infrastructure provided by earlier releases and integrates seamlessly with existing product line
- Supports all deployment models and lets you fine-tune administration and configuration of the entire system
- Brings together features from across the Business Objects product line to meet your evolving reporting needs, from using Web Intelligence anywhere to improving Crystal Reports interactivity and personalization
- Delivers innovation to drive user productivity and self-service reporting
- Delivers more reporting with fewer reports
- Includes a variety of major enhancements spread across our data access methods, administration capabilities, and report design options
- Simplifies business monitoring with dashboard functionality and improved user experience

- Delivers the strongest self-service query and analysis solution for SAP customers

To learn about new features of previous releases, visit our support websites below.

Related Topics

- [*SAP Service Marketplace*](#)



Installation and Deployment Information



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chapter

Provided with this release

SAP BusinessObjects Enterprise XI 3.1 SP3 is delivered both as a full build version and as a patch install.

Improved install times

The packaging and install times have been reduced to 50-75% of previous packaging and install times.

Installer

This release uses Microsoft Installer for the install process.

Support for the following operating systems

Support is provided for the following Operating Systems:

- AIX 6.1
- Windows 7*
- Windows Server 2008 R2*
- Windows Server 2008 SP2
- Windows Vista SP2**

Note:

- * New Operating Systems support applies only to the full install version of SP3.
- ** Through reference to Windows Vista SP1.

Additional web browser support

Support is provided for the following web browsers:

- Firefox 3.5
- Safari 4.0

Updated Salesforce.com Web Service API

The Salesforce.com Web Service API included in Crystal Reports installation includes the latest version (16.0).

Additional web application server support

Support is provided for the following web application server:

- JBoss 4.2.3

Additional language support

The following languages are now supported:

- Hungarian
- Slovak



New Features in Existing Products



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chapter

Web Intelligence

Web Intelligence Query Stripping

Query Stripping enables you to optimize the query generation automatically. With **Query Stripping** enabled, Web Intelligence generates a query containing only those objects that effectively contribute to a report.

Each time you refresh a query, Web Intelligence strips the objects which are not contributing to the report (directly or indirectly) from the report.

This improves the performance of the report by sending the stripped query to the connection server.

Auto scale of Y Axis in a Web Intelligence chart

Web Intelligence enables you to auto scale Y-axis by calculating the nearest value for the maximum and minimum range of values set for each chart block in a given report. Auto scale Y- axis is applicable for all kinds of charts, except the pie-chart.

To enable auto scale Y-axis select **Auto Scale** in the chart **Properties** tab. After enabling the autoscale Y-axis, the minimum and maximum range of values initially set for a document is not displayed.

Controlling Auto-Merge Dimensions

You can set a global option in Web Intelligence to not merge dimensions automatically even if the auto-merge dimensions criteria exist.

Drilling on Merged Dimensions

When you drill upon a merged dimension, the application provides you the query name and context for the object being drilled upon. Select the appropriate context applicable for a document.

Web Intelligence Personal Data Provider refresh feature

You can now refresh Web Intelligence personal Data Provider documents, that were created on a Web Service. You can:

- Refresh the Web Intelligence document created on a URL-based source, from InfoView
- Schedule the Web Intelligence document created on a URL-based source from InfoView

Introscope instrumentation for statistics and diagnostics for Web Intelligence C++ components

For Windows-based versions of SAP BusinessObjects Enterprise XI 3.1 SP3 and later, you can use the SAP Solution Manager diagnostic tool's web-based Introscope viewer to measure and analyze the performance of the Web Intelligence Reporting server. Online or detailed metrics and specific Business Objects dashboards can be viewed using the web-based Introscope viewer. Metrics can be collected and aggregated to show the performance over a period of time.

The Solution Manager must be present on the host where the Web Intelligence Reporting Server to be monitored is running.

Web Intelligence Calculation Changes

Ranking by dimension with the Where operator

Rankings based on a formula containing the Where operator which rank by a given dimension (using the Ranked By option) are now calculated correctly. Previously, the ranking dimension was not taken into account.

Example: Ranking by a dimension with the Where operator

A table contains the following data (the final column contains the formula Sales Revenue Where([Quantity Sold] > 2000)):

State	Month	Sales Revenue	Quantity Sold	[Sales Revenue] Where...
Illinois	1	375,172	2,355	375,172
Illinois	5	362,877	2,093	362,877
Illinois	3	296,490	1,781	
Illinois	4	278,195	1,664	
Florida	1	215,327	1,372	
Illinois	2	174,747	1,191	
Florida	3	195,799	1,137	
Florida	5	195,131	1,116	
Florida	4	158,363	906	
Florida	2	104,562	720	

In SP2 + LAFIX 2.0.10, a top 3 ranking which ranks the last column by [Month] returns the following:

State	Month	Sales Revenue	Quantity Sold	[Sales Revenue] Where...
Illinois	1	375,172	2,355	375,172
Illinois	5	362,877	2,093	362,877

The ranking does not account for the month.

In SP3, the ranking takes account of the month and returns the following:

State	Month	Sales Revenue	Quantity Sold	[Sales Revenue] Where...
Florida	1	215,327	1,372	
Illinois	1	375,172	2,355	375,172
Florida	5	195,131	1,116	
Illinois	5	362,877	2,093	362,877
Florida	3	195,799	1,137	
Illinois	3	296,490	1,781	

Formulas with the Where operator and the ForAll or In context operator

Formulas in the format [measure] Where [measure condition] ForAll/In (dimensions) now take the context operator (ForAll/In) into account. In SP2 the context operator was ignored.

Example: A formula with Where and ForAll

A table contains the following data:

State	Month	Sales Revenue	Quantity Sold
Florida	1	215,327	1,372
Florida	2	104,562	720
Florida	3	195,799	1,137
Florida	4	158,363	906
Florida	5	195,131	1,116
Illinois	1	375,172	2,355
Illinois	2	174,747	1,191

State	Month	Sales Revenue	Quantity Sold
Illinois	3	296,490	1,781
Illinois	4	278,195	1,664
Illinois	5	362,877	2,093

In SP2, the formula `[Sales Revenue] Where ([Quantity Sold] > 2000) ForAll ([State])` took the state into account when evaluating quantity sold and revenue:

State	Month	Sales Revenue	Quantity Sold	Sales Revenue Where...
Florida	1	215,327	1,372	
Florida	2	104,562	720	
Florida	3	195,799	1,137	
Florida	4	158,363	906	
Florida	5	195,131	1,116	
Illinois	1	375,172	2,355	375,172
Illinois	2	174,747	1,191	
Illinois	3	296,490	1,781	
Illinois	4	278,195	1,664	
Illinois	5	362,877	2,093	362,877

The formula now correctly calculates both values across states (the values in the last column are the total revenues across both states; the total quantity sold for both states in month 2 is less than 2000):

State	Month	Sales Revenue	Quantity Sold	Sales Revenue Where...
Florida	1	215,327	1,372	590,499
Florida	2	104,562	720	
Florida	3	195,799	1,137	492,289
Florida	4	158,363	906	436,558
Florida	5	195,131	1,116	558,009
Illinois	1	375,172	2,355	590,499
Illinois	2	174,747	1,191	
Illinois	3	296,490	1,781	492,289
Illinois	4	278,195	1,664	436,558
Illinois	5	362,877	2,093	558,009

Table filters on smart measures

A smart measure in the body of a table that is filtered on the smart measure now returns correct values. In SP2 + LAFIX 2.0.10, the smart measure returned #UNAVAILABLE.

Note:

A smart measure in the table footer correctly returns #UNAVAILABLE because the table filter is not delegated to the database.

Example: A table filtered on a smart measure

A table contains the following data:

Country	Quarter	Revenue
France	Q1	208,565
France	Q2	242,165
France	Q3	226,125
France	Q4	158,565
US	Q1	582,051
US	Q2	579,652
US	Q3	658,572
US	Q4	630,829
		3,286,524

With a filter, `Revenue > 300,000`, the result in SP2 + LAFIX 2.0.10 was as follows:

Country	Quarter	Revenue
US	Q1	#UNAVAILABLE
US	Q2	#UNAVAILABLE
US	Q3	#UNAVAILABLE
US	Q4	#UNAVAILABLE
		#UNAVAILABLE

The result is now as follows:

Country	Quarter	Revenue
US	Q1	582,051
US	Q2	579,652
US	Q3	658,572
US	Q4	630,829
		#UNAVAILABLE

Formulas with the Where operator and In Report context modifier

Formulas with the Where operator and In Report context modifier now ignore table filters.

Example: A filtered table with a Where...In Report formula

A table contains the following data:

Country	Year	Revenue
France	FY1998	295,940
France	FY1999	280,310
France	FY2000	259,170
	Sum:	835,420
US	FY1998	767,614
US	FY1999	826,930
US	FY2000	856,560
	Sum:	2,451,104
	Total:	3,286,524

With a table filter, Year=FY1998, the formula `Revenue Where ([Country]="France" In Report)` returned the revenue for 1998 only in SP2:

Country	Revenue
France	295,940
US	767,614
Revenue Where ([Country]="France" In Report	295,940

The formula now ignores the table filter and returns the total revenue for France:

Country	Revenue
France	295,940
US	767,614
Revenue Where ([Country]="France") In Report	835,420

Universe Designer/Universe Designer Personal

Universe Designer Pre-defined Filter Editor for OLAP Universes

The "Pre-defined filter" editor is a graphic tool for editing pre-defined filters in OLAP universes. Use it to select objects, operators, lists of values, prompts, functions, and other optional elements that can be used to define a filter for your OLAP universe. The pre-defined filter editor inserts the filter expression in the query/object definition.

Universe Designer SDK

New Custom Lov Classes and Methods

Universe Designer SDK now includes the following custom lov classes and methods:

- CustomLovDP Class
- CustomLovObject Class
- CustomLovObjects Class
- CustomLovQuery Class

The ListofValues class has a new method: CustomLovDP

Integration option for Microsoft SharePoint software

Integration option for Microsoft SharePoint software

The SAP BusinessObjects XI 3.1, integration option for Microsoft SharePoint software supports the following new features:

Stick This Report

The **Stick This Report** feature enables you to associate a report to a viewer web part. This feature enables personalization, which removes the dependency on "Content Explorer Web Part" and ensures that you do not get a blank viewer web part in your shared and personal views.

You can use this option in the following ways:

- Provide CUID in the Properties of viewer web part.
- Select **Stick This Report** option from the viewer web part menu.

Note:

This option is available for users with personalization properties.

Extended language support

The SAP BusinessObjects XI 3.1, integration option for Microsoft SharePoint software now supports Italian language.

Installer support

Following two installers are available for SAP BusinessObjects XI 3.1, integration option for Microsoft SharePoint software:

- A complete installer for the SAP BusinessObjects XI 3.1, integration option for Microsoft SharePoint software
- A patch installer for the SAP BusinessObjects XI 3.1, integration option for Microsoft SharePoint software

Lifecycle Management

Lifecycle Management

Lifecycle Management for SAP BusinessObjects Enterprise XI 3.1 is available as two installers:

- A complete installer for Lifecycle Management for SAP BusinessObjects Enterprise XI 3.1
- A patch installer for Lifecycle Management for SAP BusinessObjects Enterprise XI 3.1

Lifecycle Management for SAP BusinessObjects Enterprise XI 3.1 supports distributed installation.

Servers for Xcelsius

New Xcelsius servers

Two additional servers have been added to the system, an Xcelsius Cache Server and Xcelsius Processing Server. These will help process and serve Xcelsius data requests, giving administrators of systems with high Xcelsius loads more options to manage their resources and improve the performance

of their deployments. Additional information is provided in the Server Properties Appendix of the *SAP BusinessObjects Enterprise Administrator's Guide*.

Note:

The new servers are for QaaWS connectivity against relational data sources only.

Data Access

Data Access

The Data Access layer provides new functionality detailed below.

New connectivities

The Data Access layer provides the following new connectivities as part of this service pack:

- Informix Dynamic Server 11.5 through ODBC on all platforms
- Teradata 13 through ODBC and JDBC on all platforms
- HP Neoview database with ODBC driver upgraded to 2.4 on Microsoft Windows and Linux platforms

Connection Server activity in CA Wily Introscope Workstation

Activity of workflows involving Connection Server is traced in CA Wily Introscope workstation. Connection Server functions can be analysed through the different views proposed by the tool, which are the following:

- Dashboard and summary view for overall information
- Trace view, where errors are highlighted and described by messages
- Tree view, where successive function calls of a specific workflow are displayed and time spent on a function is highlighted to track the time-consuming activities easily

For more information, refer to the *SAP BusinessObjects Enterprise Administrator's Guide*.

Documentation of single sign-on support

The Data Access Guide lists the databases and network layers that support single sign-on (SSO) authentication of SAP BusinessObjects Enterprise.

Documentation of stored procedure limitations

The Data Access layer does not support all stored procedures as datasources. The Data Access Guide provides you with some restrictions about them. For more information about how to access stored procedures and retrieve data, refer to the *Designer's Guide*.

Crystal Reports

New Universal Web Services Connector

This is a standard protocol that enables WS based communication between Crystal Reports Print Engine and the web services data source that the company wants to expose to Crystal Reports. The Universal Web Services Connector is included in Crystal Reports so all the report designer has to do is enter the URL of the target web service to create the data connection and design the report. For more information, refer to the Crystal Reports user documentation.

HTML interpretation tag “<a>” is now supported

When you add a hyperlink to your report, you can now use the “<a>” tag to display text instead of the hyperlink.

Example:

```
<a href="http://www.sap.com">SAP.COM</a>
```

Note:

Only the “href” linking property is supported; other HTML 4.01 linking properties are not supported.

SAP Integration Kits

Option to distinguish between empty and non empty rows for SAP NetWeaver BW Data

When you want your report to show all SAP NetWeaver BW data records, including the empty ones, you can use the new “Show Empty Data” option. This option has been added to the SAP NetWeaver BW MDX driver to allow empty data records to be displayed.

The “Show Empty Data” option can be selected when you create the connection (on SAP System Login).

When the “Show Empty Data” option is selected, empty data rows will be displayed in the report as valid data.

Note:

Setting “Show Empty data” to true will downgrade the data retrieval performance, so the default value for the option is False. This also applies when opening a report created with previous versions of this product.

Documentation available
with SAP BusinessObjects
XI 3.1 Service Pack 3

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chapter

Product rebranding

Please note that from this release, the product is rebranded as SAP BusinessObjects Enterprise. All document titles have been updated accordingly and the full set of documentation is shipped with this release.

In the documentation set, the following User's Guides contain new information, new features, or corrections:

- What's New in SAP BusinessObjects XI3.1 Service Pack 3
- SAP BusinessObjects XI 3.1 Service Pack 3 Release Notes
- SAP BusinessObjects Mobile Release Notes
- SAP BusinessObjects XI 3.1 SP3 Update Installation and Deployment Guide
- Installing and Deploying SAP BusinessObjects Mobile
- Lifecycle Management for SAP BusinessObjects Enterprise Installation and Deployment Guide
- Building reports with SAP BusinessObjects Web Intelligence Rich Client
- Building reports with the SAP BusinessObjects Web Intelligence Java Report Panel
- Building reports with the SAP BusinessObjects Web Intelligence HTML Report Panel
- Building Queries with SAP BusinessObjects Web Intelligence Query - HTML
- Data Access Guide
- Lifecycle Management for SAP BusinessObjects Enterprise User Guide
- Performing On-Report analysis with SAP BusinessObjects Web Intelligence
- Report Conversion Tool Guide
- SAP BusinessObjects Enterprise Administrator's Guide
- SAP BusinessObjects Enterprise Lifecycle Management
- SAP BusinessObjects Enterprise Integration Option for Microsoft SharePoint Installation Guide
- SAP BusinessObjects Enterprise Integration Option for Microsoft SharePoint Getting Started Guide
- Universe Designer Guide
- Universe Designer Personal Online Help
- Universe Designer API Reference
- Universe Designer SDK Object Model Diagrams

- Using SAP BusinessObjects Mobile
- Viewing Documents Using OpenDocument
- Viewing Crystal Reports Using URL Reporting



More Information



appendix



Information Resource	Location
SAP BusinessObjects product information	http://www.sap.com
SAP Help Portal	<p>Select http://help.sap.com > SAP BusinessObjects.</p> <p>You can access the most up-to-date documentation covering all SAP BusinessObjects products and their deployment at the SAP Help Portal. You can download PDF versions or installable HTML libraries.</p> <p>Certain guides are stored on the SAP Service Marketplace and are not available from the SAP Help Portal. These guides are listed on the Help Portal accompanied by a link to the SAP Service Marketplace. Customers with a maintenance agreement have an authorized user ID to access this site. To obtain an ID, contact your customer support representative.</p>
SAP Service Marketplace	<p>http://service.sap.com/bosap-support > Documentation</p> <ul style="list-style-type: none"> • Installation guides: https://service.sap.com/bosap-inst-guides • Release notes: http://service.sap.com/releasenotes <p>The SAP Service Marketplace stores certain installation guides, upgrade and migration guides, deployment guides, release notes and Supported Platforms documents. Customers with a maintenance agreement have an authorized user ID to access this site. Contact your customer support representative to obtain an ID. If you are redirected to the SAP Service Marketplace from the SAP Help Portal, use the menu in the navigation pane on the left to locate the category containing the documentation you want to access.</p>
Developer resources	<p>https://boc.sdn.sap.com/</p> <p>https://www.sdn.sap.com/irj/sdn/businessobjects-sdklibrary</p>

Information Resource	Location
SAP BusinessObjects articles on the SAP Community Network	https://www.sdn.sap.com/irj/boc/businessobjects-articles These articles were formerly known as technical papers.
Notes	https://service.sap.com/notes These notes were formerly known as Knowledge Base articles.
Forums on the SAP Community Network	https://www.sdn.sap.com/irj/scn/forums
Training	http://www.sap.com/services/education From traditional classroom learning to targeted e-learning seminars, we can offer a training package to suit your learning needs and preferred learning style.
Online customer support	http://service.sap.com/bosap-support The SAP Support Portal contains information about Customer Support programs and services. It also has links to a wide range of technical information and downloads. Customers with a maintenance agreement have an authorized user ID to access this site. To obtain an ID, contact your customer support representative.
Consulting	http://www.sap.com/services/bysubject/businessobjectscounseling Consultants can accompany you from the initial analysis stage to the delivery of your deployment project. Expertise is available in topics such as relational and multidimensional databases, connectivity, database design tools, and customized embedding technology.

