

# SAP® BusinessObjects™ Business Intelligence Solutions

Comparison of Features by Version for the SAP BusinessObjects BI Platform



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# Empower Your Organization with Self-Service Access to Key Business Data

The components in the SAP® BusinessObjects™ Business Intelligence (BI) platform have evolved and continue to evolve rapidly. This document is a reference to help you understand when key features were introduced in the BI platform. This information should help you plan [how to evolve your infrastructure](#), plan your upgrades, and deploy the right component to the right audience. This document covers the SAP BusinessObjects BI suite and the Edge edition of SAP BusinessObjects BI software.

SAP BusinessObjects BI solutions are designed to empower your organization to achieve remarkable results by enabling self-service access to relevant information. The solutions help you to transform decisions by providing fact-based information, regardless of where your data resides. Using SAP BusinessObjects BI solutions, your organization gains increased visibility of key performance indicators (KPIs) across lines of business, improves relationships with customers and suppliers, saves time and money, and can respond faster when exceptions occur.



SAP BusinessObjects business intelligence solutions help you to [achieve remarkable results](#) by enabling self-service access to relevant information.

The SAP BusinessObjects BI platform is a comprehensive BI solution that includes many components. Designed to work together, the components address major BI use cases, such as enterprise reporting, dashboards, data discovery, online analytical processing (OLAP) analysis, and predictive analysis. You can use these components over the Web or on your mobile device.

In addition to addressing specific functional needs, the BI platform is also designed to address the needs of different audiences such as business users, business analysts, data scientists, administrators, and developers.

## FIND OUT MORE

Although this document is not an exhaustive reference of every feature in the BI platform, we attempted to identify features that are important to most implementations. There may be features not described in this document that are important to your specific deployment.

This document does not replace the product availability matrix, which details the specific supported platforms for each release and support pack. These are available at [www.sdn.sap.com/irj/boc/support?rid=/webcontent/uuid/e01d4e05-6ea5-2c10-1bb6-a8904ca76411](http://www.sdn.sap.com/irj/boc/support?rid=/webcontent/uuid/e01d4e05-6ea5-2c10-1bb6-a8904ca76411).

For more information, visit us on the Web at [www.sap.com](http://www.sap.com).

# Features-by-Version Matrix

	SAP® BusinessObjects™ BI platform 4.1	SAP BusinessObjects BI platform 4.0, feature pack 3 (FP3) or later	SAP BusinessObjects BI platform 4.0, support package 2 (SP2) or earlier	SAP BusinessObjects XI software 3.1	SAP BusinessObjects XI software release 2 (R2)
Release date	May 2013	November 26, 2010		September 30, 2008	November 24, 2005
End of mainstream support	December 31, 2016	December 31, 2015 According to the new support model used with the 4.X line, each point release (4.1, 4.2, and so on) will be supported for a minimum of two years, and there will be a minimum of one year support overlap with each subsequent point release.		December 31, 2015	June 30, 2010
User interface language support	Arabic, Chinese (Traditional), Chinese (Simplified), Czech, Danish, Dutch, English, Finnish, French, German, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (Brazil), Russian, Slovene, Slovakian, Spanish, Swedish, Thai, Turkish, Romanian	Chinese (Traditional), Chinese (Simplified), Czech, Danish, Dutch, English, Finnish, French, German, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (Brazil), Russian, Slovakian, Spanish, Swedish, Thai, Turkish, Romanian	Chinese (Traditional), Chinese (Simplified), Czech, Danish, Dutch, English, Finnish, French, German, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (Brazil), Russian, Slovakian, Spanish, Swedish, Thai, Turkish	Chinese (Traditional), Chinese (Simplified), Czech, Danish, Dutch, English, Finnish, French, German, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (Brazil), Russian, Slovakian, Spanish, Swedish, Thai	Dutch, English, French, German, Italian, Japanese, Korean, Polish, Portuguese (Brazil), Russian, Spanish, Swedish
<b>Platform</b>					
Web-based management console	✓	✓	✓	✓	✓
Security for groups, users, folders, and content	✓	✓	✓	✓	✓
Batch publishing of content to the repository	✓	✓	✓	✓	✓
Page-level caching for scalability	✓	✓	✓	✓	✓
Single-sign-on security integration with Lightweight Directory Access Protocol (LDAP), Kerberos, eTrust SiteMinder, and Windows Active Directory	✓	✓	✓	✓	✓
Bulk actions on multiple selected items	✓	✓	✓	✓	
Repository diagnostic tool	✓	✓	✓	✓	
Auditing of user activity and system events	✓	✓	✓	✓	✓
Federation for cross-site replication	✓	✓	✓	✓	

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Business Intelligence Archive Resource (BIAR) engine for promoting content	✓	✓	✓	✓	✓
BIAR engine command line tool	✓	✓	✓	✓	
Lifecycle management to promote content between development, test, and production systems	✓ Integrated into the central management console	✓ Integrated into the central management console	✓ Separate application from the central management console	✓ Separate installation starting with SP2	
• Granular security rights for promoting objects	✓	✓			
• Recurring promotion jobs	✓	✓	✓		
• Version support for lifecycle management job and content	✓	✓	✓		
Translation manager	✓	✓	✓	✓	
Internet Protocol version 6 (IPv6) support	✓	✓	✓	✓	
64-bit operating system (OS) required	✓	✓	✓		
System diagnosis and monitoring	✓	✓	✓		
• Graphical view of business intelligence (BI) deployment	✓	✓			
Monitoring dashboard	✓	✓	✓		
Version control	✓	✓	✓		
Support for the Federal Information Processing Standards (FIPS) 140 cryptography standard	✓	✓	✓		
SAP® Solution Manager application management solution support	✓	✓	✓		
Hot backup and restore	✓	✓			
Custom user attributes	✓	✓			
Support the SAP HANA® platform as BI system repository and audit database	✓	✓			
Simplified parallel install for clustered environments	✓				
System configuration wizard	✓				

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Support for storing SAP BusinessObjects Desktop Intelligence™ software documents when used with SAP BusinessObjects Desktop Intelligence in SAP BusinessObjects Enterprise XI 3.1 SP6	✓				
Support for right-to-left languages	✓				
BI platform for developers					
Core services software development kit (SDK) – Java, Microsoft .NET, and Web services					
• Session management	✓	✓	✓	✓	✓
• User authentication (Enterprise, LDAP, Active Directory, SAP)	✓	✓	✓	✓	✓
• Browse enterprise folders	✓	✓	✓	✓	✓
• Schedule SAP Crystal Reports® software for offline viewing	✓	✓	✓	✓	✓
• Schedule SAP BusinessObjects Web Intelligence® software document without parameters for offline viewing	✓	✓	✓	✓	✓
• Set SAP Crystal Reports software runtime report parameters	✓	✓	✓	✓	✓
• OpenDocument – Viewing content	✓	✓	✓	✓	✓
• Single-sign-on security integration with Microsoft Active Directory or trusted authentication when using Web services application programming interface (API)	✓				
• JavaScript Object Notation (JSON) format support with Web services API	✓				

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Content management SDK – Java, .NET					
• Add, edit, remove content from repository	✓	✓	✓	✓	✓
• Burst and publish (sending documents to external users, groups)	✓	✓	✓	✓	
• Manage instances – find instances, schedule refresh, and so on	✓	✓	✓	✓	✓
• Create and modify schedule calendars	✓	✓	✓	✓	
• Manage user permissions	✓	✓	✓	✓	✓
• Multilingual content support	✓	✓	✓	✓	
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Search SDK for searching repository for report and document content – Java	✓	✓	✓		
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Platform administration SDK – Java					
• Object security	✓	✓	✓	✓	✓
• Events and alerting	✓	✓	✓		
• Server administration	✓	✓	✓	✓	✓
• Federation	✓	✓	✓	✓	
• Monitoring – Create probes, alerts, watch lists, metrics	✓	✓	✓		
• Auditing	✓	✓	✓		
• Cryptographic key management	✓	✓	✓		
<b>End-user portal</b>	BI launch pad	BI launch pad	BI launch pad	InfoView	InfoView
Discussions	✓	✓	✓	✓	✓
Tab-based user interface	✓	✓	✓		
SAP StreamWork® application integration	✓	✓			
Support for changing the look and feel of the BI launch pad	✓	✓			

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Microsoft SharePoint portal integration kit	SharePoint 2010, SharePoint 2007 x64	SharePoint 2010, SharePoint 2007 x64	SharePoint 2010, SharePoint 2007 x64	SharePoint 2007	
Java portal integration kit for Oracle WebLogic and IBM WebSphere	✓	✓	✓	✓	
SAP Enterprise Portal component portal integration kit	✓	✓	✓	✓	
SAP Jam social software platform application integration	✓				
Third-party document overwrite support within the BI launch pad	✓				
<b>Semantic layer* and data access</b>					
Data-level security	✓	✓	✓	✓	✓
Universe designer for creating .UNV files	✓	✓	✓	✓	✓
Business views semantic layer and business view manager	✓	✓	✓	✓	✓
Information design tool for creating .UNX files	✓	✓	✓		
Data federation administration tool	✓	✓	✓		
Query as a Web service on universes	✓	✓	✓	✓	
Support for BEGIN_SQL	✓	✓	✓	✓	
Universe (UNV) support for stored procedures	✓	✓	✓	✓	
Multilingual universes (UNV and UNX)	✓	✓	✓	✓	
Online analytical processing (OLAP) universe (UNV) with flattened access to OLAP cubes	✓	✓	✓	✓	
Multidimensional universe (UNX) with hierarchical access to OLAP cubes	✓	✓	✓		
Multiple data sources in a single universe (UNX)	✓	✓	✓		
Access to Hadoop Hive in single and multisource universes (UNX)	✓	✓			
Multidimensional access to Oracle Essbase 11 (UNX)	✓	✓			

\* What SAP refers to as a "semantic layer"



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Access to Oracle E-Business Suite (UNX)	✓	✓			
Use custom user attributes to control data-level security	✓	✓			
Linked universe technology (UNV)	✓	✓	✓	✓	✓
Universe views (UNX)	✓	✓	✓		
List of values and prompts as reusable objects	✓	✓	✓		
Table views and families in the UNX data foundation	✓	✓	✓		
Guided universe creation and information design tool self-training viewlets	✓	✓			
Universe security editor	✓	✓	✓		
Universe creation wizard	✓				
Optional input columns	✓				
Information design tool welcome page	✓				
Federation layer in information design tool (SAP Data Federator software designer replacement)	✓				
Access to Oracle Exadata, Teradata 14, OData, Web Services, XML, SQL server 2012, Hive on Amazon (UNX)	✓				
Single-sign-on connection to SAP Sybase® IQ software and Teradata	✓				
Universes for developers					
Universe (UNX) SDK – Java					
• Edit row-level security (for multitenancy scenarios)	✓	✓			
• Publish and retrieve a universe	✓	✓			
• Update universe connections	✓	✓			

	SAP® BusinessObjects™ BI platform 4.1	SAP BusinessObjects BI platform 4.0, feature pack 3 (FP3) or later	SAP BusinessObjects BI platform 4.0, support package 2 (SP2) or earlier	SAP BusinessObjects XI software 3.1	SAP BusinessObjects XI software release 2 (R2)
• Read and modify universe content	✓	✓ SP5			
• Convert universes (UNV to UNX)	✓	✓ SP5			
• Create resources from scratch (connection, data foundation, business layer)	✓				
• Create and edit a secured connection – both relational and OLAP	✓				
• Get and edit some data foundation parameters – name, description, list of tables	✓				
• Get and edit some data foundation tables	✓				
• Get and edit business layer parameters – name, description, root folder	✓				
• Get and edit business item lists (relational business layer)	✓				
• Get and edit business item parameters (name, select, where, status, object access level)	✓				
<hr/>					
Universe (UNV) SDK – component object model (COM)					
• Create data foundation (universe structure of tables and joins)	✓	✓	✓	✓	✓
• Create business layer (mapped to tables and columns in the data foundation)	✓	✓	✓	✓	✓
• Publish and retrieve a universe	✓	✓	✓	✓	✓
• Update and manage Universe connections	✓	✓	✓	✓	✓
• Create, edit, row-level security	✓	✓	✓	✓	✓
• Create, activate, import, export universe	✓	✓	✓	✓	✓

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• Add and delete classes, objects, preconditions, tables, columns, joins, contexts, custom hierarchies	✓	✓	✓	✓	✓
• Edit, delete, refresh list of values	✓	✓	✓	✓	✓
<b>Features for OEM customers</b>					
Repackage the BI platform to minimize the redistributed components	✓	✓			
Custom branding	✓	✓			
• Installer	✓	✓			
• BI launch pad	✓	✓			
• OpenDocument	✓	✓			
• BI workspace	✓	✓			
• SAP Crystal Reports	✓	✓			
Multitenant support	✓	✓			
• Support for delegated administration	✓	✓			
• Tool to automate tenant provisioning	✓	✓			
• Record tenant ID in auditing data	✓				
• Restrict concurrent logon sessions per tenant	✓				
<b>Scheduling and distribution for SAP Crystal Reports and SAP BusinessObjects Web Intelligence software</b>					
Scheduling to a pre-defined distribution list	✓	✓	✓	✓	✓
Event-based scheduling	✓	✓	✓	✓	✓
Schedule to e-mail, file share, and paper	✓	✓	✓	✓	✓
View-time security for scheduled SAP Crystal Reports using business views	✓	✓	✓	✓	✓
Publications (report bursting)	✓	✓	✓	✓	
• Data-driven publishing	✓	✓	✓	✓	
• Personalized publications	✓	✓	✓	✓	

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<b>SAP Crystal Reports software</b>					
Supported desktop report design software	Both SAP Crystal Reports 2011 and SAP Crystal Reports for enterprise	Both SAP Crystal Reports 2011 and SAP Crystal Reports for enterprise		SAP Crystal Reports 2008	SAP Crystal Reports XI R2
<b>Data</b>					
• Direct access to online database connectivity (ODBC), Java database connectivity (JDBC), IBM DB2, Microsoft SQL Server, Oracle, Teradata, and other data sources	✓	✓	✓ 2011	✓	✓
• Verify database function to ensure report query matches underlying data source	✓	✓ 2011	✓ 2011	✓	✓
• Support for business views semantic layer	✓ 2011	✓ 2011	✓ 2011	✓	✓
• Support for universe (UNV)	✓ 2011	✓ 2011	✓ 2011	✓	✓
• Support for Structured Query Language (SQL) commands	✓	✓ 2011	✓ 2011	✓	✓
• Support for universe (UNX)	✓ enterprise	✓ enterprise	✓ enterprise		
• XML and Web services driver	✓ 2011	✓ 2011	✓ 2011	✓	
• Access OLAP data without using an OLAP grid	✓ enterprise	✓ enterprise	✓ enterprise		
• Access relational data in a hierarchical format	✓ enterprise	✓ enterprise	✓ enterprise		
• Common query panel for accessing UNX universes	✓ enterprise	✓ enterprise	✓ enterprise		
• Level-based member selector	✓ enterprise	✓ enterprise			
• Create subreports based on any data source with no restrictions to the main report's data source	✓ enterprise				
<b>Charts</b>					
• Tree map	✓ enterprise	✓ enterprise			
• Tag cloud	✓ enterprise	✓ enterprise			
• Box plot	✓ enterprise	✓ enterprise			
• Bar	✓	✓	✓	✓	✓

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• Line	✓	✓	✓	✓	✓
• Pie	✓	✓	✓	✓	✓
• Numeric axis	✓	✓	✓	✓	✓
• Area	✓	✓	✓	✓	✓
• Doughnut	✓	✓	✓	✓	✓
• 3-D riser	✓	✓	✓	✓	✓
• 3-D surface	✓	✓	✓	✓	✓
• XY scatter	✓	✓	✓	✓	✓
• Radar	✓	✓	✓	✓	✓
• Bubble	✓	✓	✓	✓	✓
• Stock	✓	✓	✓	✓	✓
• Gauge	✓	✓	✓	✓	✓
• Gantt	✓	✓	✓	✓	✓
• Funnel	✓	✓	✓	✓	✓
• Histogram	✓	✓	✓	✓	✓
Support for translation manager	✓ enterprise	✓ enterprise	✓ enterprise		
Embed Adobe Flash objects and SAP BusinessObjects Dashboards software integration	✓	✓	✓	✓	
Prompting					
• On-report parameter panels	✓	✓	✓	✓	
• On-report filter and sort controls	✓	✓	✓	✓	
• Level-based member selector	✓ enterprise	✓ enterprise			
Custom calculated rows and columns in cross-tabs	✓	✓	✓	✓	
Support for read-only RPT files (RPTR)	✓ 2011	✓ 2011	✓ 2011		
Export to Microsoft Excel (XLSX)	✓	✓	✓	✓	
Smart guidelines to move and resize columns	✓ enterprise	✓ enterprise	✓ enterprise		
Platform alerting integration	✓ enterprise	✓ enterprise	✓ enterprise		
Web-based library of common reports	✓ enterprise	✓ enterprise			

	SAP® BusinessObjects™ BI platform 4.1	SAP BusinessObjects BI platform 4.0, feature pack 3 (FP3) or later	SAP BusinessObjects BI platform 4.0, support package 2 (SP2) or earlier	SAP BusinessObjects XI software 3.1	SAP BusinessObjects XI software release 2 (R2)
SAP Crystal Reports for developers					
Viewer SDK – JavaScript					
• Refresh	✓	✓			
• Report viewing	✓	✓			
• Prompts – for parameter values (not dynamic cascading prompts)	✓	✓			
• Page navigation	✓	✓			
• Client-side printing	✓	✓			
• Event listeners for mouse clicks and mouse-over events	✓	✓			
• Action listeners for printing and exporting events	✓	✓			
• Methods to customize color and font	✓	✓			
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RESTful Web services API					
• Export a report to PDF, Microsoft Excel, Microsoft Word, RTF, Text, XML, TTX, and comma-separated variables (CSV) formats	✓ enterprise	✓ enterprise			
• Retrieve report metadata	✓ enterprise	✓ enterprise			
• Get rows of data and calculations	✓ enterprise	✓ enterprise			
• Open data protocol (Odata) support to push data into the report	✓ enterprise	✓ enterprise			
• Get and set report parameters	✓ enterprise	✓ enterprise			
• Retrieve data in XML or JSON format	✓ enterprise	✓ enterprise			
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Report application server (RAS) SDK					
• Viewer SDK – Java and .NET					
• Refresh	✓ 2011	✓ 2011	✓ 2011	✓	✓

	SAP® BusinessObjects™ BI platform 4.1	SAP BusinessObjects BI platform 4.0, feature pack 3 (FP3) or later	SAP BusinessObjects BI platform 4.0, support package 2 (SP2) or earlier	SAP BusinessObjects XI software 3.1	SAP BusinessObjects XI software release 2 (R2)
• Report viewing	✓ 2011	✓ 2011	✓ 2011	✓	✓
• Prompts - for parameter values (not dynamic cascading prompts)	✓ 2011	✓ 2011	✓ 2011	✓	✓
-----					
Report modification and exporting - Java and .NET SDK					
• Create, edit, remove tables, table joins, and data sources in the report	✓ 2011	✓ 2011	✓ 2011	✓	✓
• Create, edit, remove the data structures in the report	✓ 2011	✓ 2011	✓ 2011	✓	✓
• Modify the layout and format of the areas, sections, and report objects in the report	✓ 2011	✓ 2011	✓ 2011	✓	✓
• Modify and import subreports	✓ 2011	✓ 2011	✓ 2011	✓	✓
• Modify custom functions	✓ 2011	✓ 2011	✓ 2011	✓	✓
• Get unformatted data directly from the report	✓ 2011	✓ 2011	✓ 2011	✓	✓
• Export reports to a specific format and modify the page size	✓ 2011	✓ 2011	✓ 2011	✓	✓
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OpenDocument URL format					
• Support long Open- Document parameter strings in custom applications	✓ enterprise				

#### SAP BusinessObjects Web Intelligence software

##### Data

• Support for universe (UNV)	✓	✓	✓	✓	✓
• Synchronized multiple data providers	✓	✓	✓	✓	✓
• OLAP universes	✓	✓	✓	✓	✓
• Personal data providers (Microsoft Excel, TXT, CSV)	✓	✓	✓	✓	
• Query on query	✓	✓	✓	✓ with SP2	
• Query stripping for OLAP sources	✓	✓	✓	✓ with SP3	
• Query stripping for relational sources	✓				

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• Query stripping for SAP HANA	✓				
• Support for universe (UNX)	✓	✓	✓		
• Support for hierarchical and OLAP data sources via UNX universes	✓	✓	✓		
• Support for Hadoop Hive via UNX universes	✓	✓			
• Access to ABAP® programming language functions, SAP queries, and info sets via universe (UNX)	✓	✓			
Rank	✓	✓	✓	✓	✓
Custom sort	✓	✓	✓	✓	✓
Formula language	✓	✓	✓	✓	✓
Conditional formatting and alerters	✓	✓	✓	✓	✓
Desktop intelligence report conversion tool	✓	✓	✓	✓	
Support for translation manager	✓	✓	✓	✓	
Export to Microsoft Excel (XLS)	✓	✓	✓	✓	
Export to Microsoft Excel (XLSX)	✓	✓	✓		
Export document to PDF	✓	✓	✓	✓	
Document autosave	✓	✓	✓	✓	
Track data changes	✓	✓	✓	✓	
Fold and unfold	✓	✓	✓	✓ with SP2	
Merge and unmerge data provider	✓	✓	✓	✓	✓
Merge and unmerge hierarchical dimension	✓				
Freeze headers	✓				
Custom color palettes	✓				
Measure delegation workflow improvement	✓				



	SAP® BusinessObjects™ BI platform 4.1	SAP BusinessObjects BI platform 4.0, feature pack 3 (FP3) or later	SAP BusinessObjects BI platform 4.0, support package 2 (SP2) or earlier	SAP BusinessObjects XI software 3.1	SAP BusinessObjects XI software release 2 (R2)
Prompting					
• Optional prompts	✓	✓	✓	✓	
Input controls	✓	✓	✓	✓ with SP2	
Level-based member selector	✓	✓			
Input control support for hierarchies	✓	✓			
OpenDocument	✓	✓	✓	✓	✓
Elements linking	✓	✓	✓		
Table					
• Vertical and horizontal	✓	✓	✓	✓	✓
• Cross-table	✓	✓	✓	✓	✓
• Drill up, drill down in table	✓	✓	✓	✓	✓
• Table with hierarchical dimensions	✓	✓	✓		
Charts					
• 3-D				✓	✓
• Bar	✓	✓	✓	✓	✓
• Line	✓	✓	✓	✓	✓
• Combined column and line	✓	✓	✓	✓	✓
• Pie	✓	✓	✓	✓	✓
• Area	✓	✓	✓	✓	
• XY scatter	✓	✓	✓	✓	
• Polar	✓	✓	✓	✓	
• Radar	✓	✓	✓	✓	
• Tree map	✓	✓	✓		
• Heat map	✓	✓	✓		
• Tag cloud	✓	✓	✓		
• Box plot	✓	✓	✓		

	SAP® BusinessObjects™ BI platform 4.1	SAP BusinessObjects BI platform 4.0, feature pack 3 (FP3) or later	SAP BusinessObjects BI platform 4.0, support package 2 (SP2) or earlier	SAP BusinessObjects XI software 3.1	SAP BusinessObjects XI software release 2 (R2)
• Doughnut	✓	✓	✓		
• Bubble	✓	✓	✓		
• Waterfall	✓	✓			
• Drill up, drill down on charts	✓	✓	✓	✓	✓
• Charts with hierarchical dimensions	✓	✓			
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Customizations					
• Personalized SAP BusinessObjects Web Intelligence clients (WRC, WRIA, HTML)	✓				
• Customization per user group in central management console	✓				
• Customization of user interface elements	✓				
• Customization of user interface features	✓				
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SAP BusinessObjects Web Intelligence software for developers					
ReBean Java SDK – Viewing and refreshing					
• Open and close report	✓	✓	✓	✓	✓
• Document instance get and set properties	✓	✓	✓	✓	✓
• Get HTML, CSV, and XML view	✓	✓	✓	✓	✓
• Page navigation	✓	✓	✓	✓	✓
• Set multilingual options	✓	✓	✓	✓	✓
• Get report data and metadata (list of values, prompts, drill info, images)	✓	✓	✓	✓	✓
• Export to PDF, Microsoft Excel, CSV	✓	✓	✓	✓	✓
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	SAP® BusinessObjects™ BI platform 4.1	SAP BusinessObjects BI platform 4.0, feature pack 3 (FP3) or later	SAP BusinessObjects BI platform 4.0, support package 2 (SP2) or earlier	SAP BusinessObjects XI software 3.1	SAP BusinessObjects XI software release 2 (R2)
Web services API					
• Browse central management service to locate documents	✓				
• Get document details	✓				
• Open, close, refresh, purge, save document	✓				
• Manage prompts and list of values	✓				
• Access and export documents, individual reports, and report elements	✓				
• Export to Microsoft Excel (XLS, CSV, PDF, XML, HTML)	✓				
• Get a page of a report	✓				
• Get a list of data providers	✓				
• Get details of a data provider	✓				
• Rename, sort, or delete a data provider from a document	✓				
• Change data provider source workflows	✓				
• Get and set schedule details, including destinations, recurrences, prompts, all formats, and options	✓				
• Get and update query specification associated with a data provider	✓				
• Create a blank document	✓				
• Add, delete, and set report specification in a document	✓				
• Get, create, delete, update, and track data change, alerters, styles, skins, variable	✓				
• Manage drill and create drill snapshots	✓				
• Manage document state through storage token (snapshot)	✓				
• Get from server default document configuration	✓				

	SAP® BusinessObjects™ BI platform 4.1	SAP BusinessObjects BI platform 4.0, feature pack 3 (FP3) or later	SAP BusinessObjects BI platform 4.0, support package 2 (SP2) or earlier	SAP BusinessObjects XI software 3.1	SAP BusinessObjects XI software release 2 (R2)
<b>SAP BusinessObjects Dashboards software</b>	SAP BusinessObjects Dashboards 4.0 SP4 or later	SAP BusinessObjects Dashboards 4.0 SP4 or later	SAP BusinessObjects Dashboards 4.0 SP2 or earlier	Xcelsius® software 2008	Xcelsius 4.5
<b>Charts</b>					
• Candlestick and open-high-low-close (OHLC) charts	✓	✓	✓	✓	✓
• Tree maps	✓	✓	✓	✓	
• Geographical maps for North America	✓	✓	✓	✓	✓
• Geographical maps for Europe and Asia	✓	✓	✓	✓	
• Panel container	✓	✓	✓	✓	
• Tab set	✓	✓	✓	✓	
• Trend analyzer	✓	✓	✓	✓	
• Dual axis charts	✓	✓	✓	✓	
• Bullet charts	✓	✓	✓	✓ with SP3	
• Canvas container	✓	✓	✓	✓ with SP3	
• Sparkline charts	✓	✓	✓	✓ with SP3	
• Chart range slider	✓	✓	✓	✓ with SP3	
• Chart sorting	✓	✓	✓	✓ with SP3	
• Waterfall charts	✓	✓		✓ with SP4	
<b>Components</b>					
• List view	✓	✓	✓	✓	✓
• Panel set	✓	✓	✓	✓	✓
• Hierarchical tree view	✓	✓			
• Hierarchical scorecard	✓	✓			
<b>Data</b>					
• SAP BusinessObjects Live Office software connector	✓	✓	✓	✓	✓
• Embedded spreadsheet	✓	✓	✓	✓	
• Data manager	✓	✓	✓	✓	
• SAP Crystal Reports integration	✓	✓	✓	✓	
• Common query panel for accessing UNX universes	✓	✓	✓		
• Support for hierarchical and OLAP data via UNX universes	✓	✓			

	SAP® BusinessObjects™ BI platform 4.1	SAP BusinessObjects BI platform 4.0, feature pack 3 (FP3) or later	SAP BusinessObjects BI platform 4.0, support package 2 (SP2) or earlier	SAP BusinessObjects XI software 3.1	SAP BusinessObjects XI software release 2 (R2)
• Support for Hadoop Hive via UNX universes	✓	✓			
• Level-based member selector	✓	✓			
• Access to ABAP functions, SAP queries, and info sets via universe (UNX)	✓	✓			
• Dedicated cache and processing servers	✓	✓	✓	✓ with SP3	
<b>Adobe Flex design-time SDK</b>					
• Version supported	Flex 4	Flex 4	Flex 2	Flex 2	
• Create new Adobe Flex visual components, such as charts and gauges	✓	✓	✓	✓	
• Create custom Adobe Flex connections	✓	✓	✓	✓	
• Add support for additional Microsoft Excel functions using Adobe Flex	✓	✓	✓	✓	
<b>Mobile HTML5-based design-time SDK</b>					
• Create new visual components, such as charts and gauges	✓				
• Create custom connections	✓				
• Add support for additional Microsoft Excel functions	✓				
<b>SAP BusinessObjects Explorer® software</b>					
<b>Data</b>					
• Support for universes (UNX)	✓	✓	✓		
• Support for XLS and XLSX files	✓	✓	✓	✓	
• Create and manage information spaces	✓	✓	✓	✓	
• Personalize information spaces for data-level security	✓	✓	✓	✓	
• Support for SAP NetWeaver® Business Warehouse Accelerator (SAP NetWeaver BW Accelerator) application	✓	✓	✓	✓	
• Support for Hadoop Hive via UNX universes	✓	✓			

	SAP® BusinessObjects™ BI platform 4.1	SAP BusinessObjects BI platform 4.0, feature pack 3 (FP3) or later	SAP BusinessObjects BI platform 4.0, support package 2 (SP2) or earlier	SAP BusinessObjects XI software 3.1	SAP BusinessObjects XI software release 2 (R2)
Support for simple calculations	✓	✓	✓	✓	
Chart types					
• Bar (vertical and horizontal)	✓	✓	✓	✓	
• Radar	✓	✓	✓	✓	
• Surface	✓	✓	✓	✓	
• Tag cloud	✓	✓	✓	✓	
• Pie	✓	✓	✓	✓	
• Stacked bar	✓	✓	✓	✓	
• Tree maps	✓	✓	✓	✓	
• Scatter	✓	✓	✓	✓	
• Bubble	✓	✓	✓	✓	
• Line	✓	✓	✓	✓	
• Geo maps	✓	✓			
• Table	✓	✓			
Support for two levels of nested dimensions	✓	✓			
Users can create their own compositions of multiple SAP BusinessObjects Explorer visualizations (exploration views)	✓	✓			
Geographic maps with city-level resolution	✓	✓			
Geographical dimension support	✓	✓			
Date and time dimension support	✓	✓			
Search auto-correct and "did you mean?" feature	✓	✓			
Supported features through OpenDocument (viewing via URL)					
• Parameters, information space ID	✓	✓			
• Sorted list of facets, facet values, and measures to display	✓	✓			
• Search criteria	✓	✓			

	SAP® BusinessObjects™ BI platform 4.1	SAP BusinessObjects BI platform 4.0, feature pack 3 (FP3) or later	SAP BusinessObjects BI platform 4.0, support package 2 (SP2) or earlier	SAP BusinessObjects XI software 3.1	SAP BusinessObjects XI software release 2 (R2)
• Chart type, ordering, analysis dimensions to display	✓	✓			
• Control user interface	✓	✓			
End users can edit visualization titles in exploration views	✓				
Undo and redo	✓				
Administrators can map objects from one information space to another data source	✓				
Exploration views now available from BI workspaces	✓				
<b>SAP BusinessObjects Analysis software, edition for OLAP</b>					
Data					
• Microsoft SQL Server Analysis Services support	✓	✓	✓		
• Oracle Essbase	✓				
• Oracle OLAP	✓				
Direct multidimensional access to SAP solutions for EPM. Supports SAP Business Planning and Consolidation versions 7.5 and 10 and SAP Profitability and Cost Management versions 7.5 and 10.	✓	✓			
Focused analysis – Display a subset of data in a subanalysis	✓	✓			
Pivot with – move an item of interest to a background filter and bring a new hierarchy into the cross-tab	✓	✓			
Level-based member selection	✓	✓	✓		
Expand to level	✓	✓			
Display attributes with SAP NetWeaver BW application data sources	✓	✓			
Compact the display of nested hierarchies with SAP NetWeaver BW data sources	✓	✓			

	SAP® BusinessObjects™ BI platform 4.1	SAP BusinessObjects BI platform 4.0, feature pack 3 (FP3) or later	SAP BusinessObjects BI platform 4.0, support package 2 (SP2) or earlier	SAP BusinessObjects XI software 3.1	SAP BusinessObjects XI software release 2 (R2)
Supported features through OpenDocument (viewing via URL)	✓				
• Support for setting SAP NetWeaver BW and SAP HANA prompts via OpenDocument	✓				
Prompting					
• SAP BW variables (key date, characteristic, hierarchy, hierarchy node, characteristic interval, complex characteristic, formula, currency)	✓	✓	✓		
• Enhanced prompt dialog to handle large number of prompts	✓				
• Support for SAP NetWeaver BW variants	✓				
• Prompt merging	✓				
• Manual entry of prompt values	✓	✓ with SP5			
• Support SAP HANA hierarchies and prompts	✓	✓ with SP4			
Support for the report-to-report interface as a sender	✓				
Visualize conditional formatting defined in the SAP Business Explorer (SAP BEx) tool query (exceptions)	✓				
<b>SAP Landscape Integration</b>					
Check marks apply to SAP Crystal Reports for enterprise, SAP BusinessObjects Web Intelligence, SAP BusinessObjects Dashboards, and SAP BusinessObjects Explorer unless otherwise noted.					
SAP integration kit	Built into the base product	Built into the base product	Built into the base product	✓	✓
SAP Solution Manager integration	✓ BI Platform	✓ BI Platform	✓ BI Platform		
Access to SAP NetWeaver BW queries using OLAP universe	✓ SAP BusinessObjects Web Intelligence	✓ SAP BusinessObjects Web Intelligence	✓ SAP BusinessObjects Web Intelligence	✓ SAP BusinessObjects Web Intelligence	
Multidimensional access to SAP BEx query via BI consumer services (BICS)	✓	✓	✓ SAP BusinessObjects Dashboards must be deployed to the SAP NetWeaver Portal component		
Relational access to SAP NetWeaver BW 7.x and later via universe (UNX)	✓	✓	✓	✓	
Access SAP ERP via universe (UNX) (classic info sets, ABAP functions, SAP queries)	✓	✓			



	SAP® BusinessObjects™ BI platform 4.1	SAP BusinessObjects BI platform 4.0, feature pack 3 (FP3) or later	SAP BusinessObjects BI platform 4.0, support package 2 (SP2) or earlier	SAP BusinessObjects XI software 3.1	SAP BusinessObjects XI software release 2 (R2)
Direct access to SAP ERP tables, ABAP functions, SAP queries, and info sets	✓ SAP Crystal Reports 2011	✓ SAP Crystal Reports 2011	✓ SAP Crystal Reports 2011	✓ SAP Crystal Reports 2008	✓ SAP Crystal Reports XI R2
Support for report-to-report interface as sender	✓ SAP Crystal Reports for enterprise; SAP BusinessObjects Dashboards; SAP BusinessObjects Analysis, edition for OLAP; SAP BusinessObjects Analysis, edition for Microsoft Office 1.3+	✓ SAP Crystal Reports for enterprise; SAP BusinessObjects Dashboards; SAP BusinessObjects Analysis, edition for Microsoft Office 1.3+			
Lifecycle management integration with SAP change and transport system (ABAP transports)	✓	✓	✓		
Hierarchical access to SAP solutions for EPM via universe (UNX). Supports SAP Business Planning and Consolidation version 10, SAP Profitability and Cost Management version 10, and SAP Financial Consolidation version 10.	✓	✓			
Support for SAP solutions for EPM, SAP Business Planning and Consolidation versions 7.5 and 10, and SAP Profitability and Cost Management versions 7.5 and 10.	✓ SAP BusinessObjects Analysis, edition for OLAP	✓ SAP BusinessObjects Analysis, edition for OLAP			
Support for SAP NetWeaver Identity Management component integration	✓				
Prompting					
• Support for variable variants	✓ SAP BusinessObjects Analysis, edition for OLAP; SAP BusinessObjects Analysis, edition for Microsoft Office	✓ SAP BusinessObjects Analysis, edition for Microsoft Office	✓ SAP BusinessObjects Analysis, edition for Microsoft Office		
• Support for merging variables	✓ SAP BusinessObjects Analysis, edition for OLAP; SAP BusinessObjects Analysis, edition for Microsoft Office; SAP BusinessObjects Design Studio	✓ SAP BusinessObjects Analysis, edition for Microsoft Office	✓ SAP BusinessObjects Analysis, edition for Microsoft Office		
• Support for optional input columns in the information design tool when used with SAP ERP	✓				

SAP® BusinessObjects™ BI platform 4.1	SAP BusinessObjects BI platform 4.0, feature pack 3 (FP3) or later	SAP BusinessObjects BI platform 4.0, support package 2 (SP2) or earlier	SAP BusinessObjects XI software 3.1	SAP BusinessObjects XI software release 2 (R2)
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## SAP HANA Integration

Applies to the BI4 SP5 versions of SAP BusinessObjects Web Intelligence; SAP Crystal Reports 2011; SAP Crystal Reports for enterprise; SAP BusinessObjects Dashboards; SAP BusinessObjects Explorer; SAP BusinessObjects Analysis, edition for OLAP; the 1.3 version of SAP BusinessObjects Analysis, edition for Microsoft Office; and the 1.0 version of SAP BusinessObjects Design Studio.

• Support for SAP HANA tables, analytic views and calculation views in single and multisource universes (UNX)	SAP BusinessObjects Web Intelligence, SAP BusinessObjects Dashboards, SAP Crystal Reports for enterprise	SAP BusinessObjects Web Intelligence, SAP BusinessObjects Dashboards, SAP Crystal Reports for enterprise		
• Support for SAP HANA analytic view and calculation views with a direct access	SAP BusinessObjects Analysis, edition for Microsoft Office; SAP BusinessObjects Analysis, edition for OLAP; SAP BusinessObjects Design Studio; SAP Visual Intelligence software	SAP BusinessObjects Analysis, edition for Microsoft Office; SAP BusinessObjects Analysis, edition for OLAP; SAP BusinessObjects Design Studio; SAP Visual Intelligence		
• Support for SAP HANA tables, analytic views and calculation views with a freehand SQL access	SAP Crystal Reports 2011; SAP Crystal Reports for enterprise	SAP Crystal Reports 2011; SAP Crystal Reports for enterprise		
• Support for SAP HANA variables and input parameters	SAP BusinessObjects Analysis, edition for Microsoft Office; SAP BusinessObjects Analysis, edition for OLAP; SAP BusinessObjects Design Studio; SAP BusinessObjects Web Intelligence; SAP Crystal Reports for enterprise; SAP Crystal Reports 2011; SAP BusinessObjects Dashboards	SAP BusinessObjects Analysis, edition for Microsoft Office; SAP BusinessObjects Analysis, edition for OLAP; SAP BusinessObjects Design Studio; SAP BusinessObjects Web Intelligence; SAP Crystal Reports for enterprise; SAP Crystal Reports 2011; SAP BusinessObjects Dashboards		
• Support for SAP HANA hierarchies	SAP BusinessObjects Analysis, edition for Microsoft Office; SAP BusinessObjects Analysis, edition for OLAP; SAP BusinessObjects Design Studio	SAP BusinessObjects Analysis, edition for Microsoft Office; SAP BusinessObjects Analysis, edition for OLAP; SAP BusinessObjects Design Studio		
• Support for SAP HANA single sign-on	SAP BusinessObjects Web Intelligence; SAP BusinessObjects Dashboards; SAP Crystal Reports for enterprise (via universe)	SAP BusinessObjects Web Intelligence; SAP BusinessObjects Dashboards; SAP Crystal Reports for enterprise (via universe)		
• Support for SAP HANA multilingual settings	SAP BusinessObjects Explorer; SAP BusinessObjects Analysis, edition for Microsoft Office	SAP BusinessObjects Explorer; SAP BusinessObjects Analysis, edition for Microsoft Office		

	SAP® BusinessObjects™ BI platform 4.1	SAP BusinessObjects BI platform 4.0, feature pack 3 (FP3) or later	SAP BusinessObjects BI platform 4.0, support package 2 (SP2) or earlier	SAP BusinessObjects XI software 3.1	SAP BusinessObjects XI software release 2 (R2)
Automatic relational universe generation on SAP HANA views	Information design tool				
Automatic generation of a universe on multiple unjoined SAP HANA views. The system chooses the best view to answer the query at runtime.	SAP BusinessObjects Web Intelligence; SAP BusinessObjects Dashboards; SAP Crystal Reports for enterprise (via universe)				
Dimensional connection to SAP HANA analytic and calculation views	SAP Crystal Reports for enterprise				

SAP BusinessObjects Analysis software, edition for Microsoft Office	1.4	1.3	1.2	1.1
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Data				
• Support for SAP HANA	✓	✓	✓	✓
• Support for SAP NetWeaver BW	✓	✓	✓	✓
• Save analysis as an analysis view to share it with other applications such as SAP Crystal Reports or SAP BusinessObjects Analysis, edition for OLAP	✓	✓	✓	✓
• Support for SAP NetWeaver BW workspaces	✓	✓		
• Support for conditions defined with SAP BEx query designer	✓	✓		
Prompting				
• Support for merging variables	✓	✓	✓	
• Save prompt values as variants	✓	✓		
Enter planning data automatically using planning functions of SAP NetWeaver BW integrated planning	✓	✓	✓	✓
Visualize conditional formatting defined in the SAP BEx query (exceptions)	✓	✓		
Lock and unlock selected cross-tab cells	✓	✓	✓	
Save workbooks to the SAP NetWeaver BW application	✓	✓		
Launch directly from SAP NetWeaver BW in the SAP user interface	✓	✓		
Support for converting simple SAP BEx analyzer workbooks	✓	✓		
Integration with SAP BusinessObjects Design Studio software to create mobile and Web applications	✓			
Schedule (broadcast) workbooks using the SAP BusinessObjects BI platform	✓			

SAP BusinessObjects Design Studio	1.1	1.0
Data		
• Support for SAP HANA	✓	✓
• Support for SAP NetWeaver BW	✓	✓
Design		
• Prompting screen and variable support	✓	
• HTML5-based charts	✓	
• Customizable cascading style sheets (CSS)	✓	
• Input variables for context passing	✓	

<b>SAP BusinessObjects Mobile software</b>	SAP BusinessObjects BI platform 4.1	SAP BusinessObjects BI platform 4.0, support package 5 (SP5) or later	SAP BusinessObjects BI platform 4.0, support package 4 (SP4) or earlier	SAP BusinessObjects XI software 3.1	SAP BusinessObjects XI software release 2 (R2)
Support for Android devices	✓	✓	✓		
Support for SAP BusinessObjects Dashboards software	✓	✓			
Support for SAP BusinessObjects Design Studio	✓	✓			
Support for SAP BusinessObjects Explorer, including exploration views	✓				
Support for Linux-based Web application server	✓	✓			
Support for IBM AIX-based Web application server	✓				



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