



PUBLIC

SAP BusinessObjects BI Suite

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What's New

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1 About this document

The *What's New Guide for SAP BusinessObjects Business Intelligence Suite 4.3* provides an overview of the features and enhancements that have been added to the SAP BusinessObjects Business Intelligence Suite since the previous release. It directs you to the available product documentation to get you started using the new features.

2 SAP BusinessObjects Business Intelligence Suite 4.3

2.1 SAP BusinessObjects Business Intelligence Platform

Following are the key new features in SAP BusinessObjects Business Intelligence Platform 4.3:

Fiorified Business Intelligence Launch Pad

- The new home page of Fiorified BI Launch pad contains all key navigation workflows as follows:
Home contains,
 - *Folders* and *Category* tiles to view and manage the reports and folders in hierarchical order.
 - *Inbox* and *Alerts* tiles to read, unread, and manage the reports and alerts.
 - *Recycle Bin* tile to manage the deleted items.
 - *Instances* tile to manage the scheduled instances.
 - *Documents* tile to view and manage the flat list of all reports in the repository.
- You can configure and access **SAP Analytics Cloud** tenant from the SAC tile in the *Applications* tab.
- Following are the enhancements for Publication workflows:
 - You can create a publication from the *Folders* tile.
 - Based on the type of the publication, you can view or download the latest instance of publication from Unified Document Viewer.
 - You can subscribe/unsubscribe to a publication by subscribing to its recurring instance or by rescheduling the publication.
 - If your Crystal report contains parameters, you can personalize a Crystal report in the Schedule dialog box.
 - You can choose recurrence patterns and multiple destinations when scheduling publications.
 - You can use the test mode in the BI Launch pad to send a publication to yourself before sending it to recipients.
 - You can send multiple reports or publications to Enterprise recipients via *BI Inbox*, *E-mail*, *FTP Server*, the *File system*, or to Dynamic recipients via *E-mail*.
 - You can send publications to dynamic recipients such as Non-Enterprise users, either outside of your network or not configured with users, groups, profiles, and security.
- Fiorified BI Launch pad now supports the RTL languages (**Hebrew** and **Arabic**).
- You can modify Crystal and Web Intelligence reports to update the content using the **Modify** option in the contextual menu.
- Any third-party document (word, PDF, text etc..) can be replaced with a new document using the **Replace** option.
- You can customize the homepage, and hide some of the options in it at user and user group level.
- You can also personalize the BI Launch pad with the SAP Fiori themes (**Belize**, **Belize Deep**, **High Contrast Black**, and **High Contrast White**).

- You can now add any document as a **Shortcut Object**.
- You can view an external link in the Unified Viewer, where you can perform all the actions that are mentioned for a hyperlink. The https links are automatically opened in a new window.
- **Notifications:** You can now set up notifications for schedule status in Fiorified BI Launch pad.
- **Retry options:** In the schedule page, you can now set the *Number of retries allowed* and *retry interval in seconds* option to retry a schedule job after a set of retrieval intervals.

BI Workspace and Content Linking

- **BI Workspace:** You can create new BI Workspaces in BI Launch pad. The BI Workspace Opendoc link launches the workspace in new Fiorified UI. You can also view and edit the BI Workspace created in BI 4.2 or BI 4.1 as part of editing legacy BI Workspace.
- **Text module:** BI Workspace now offers an enriched and simplified Text Module functionality, which contains a rich text editor to let you format the texts, insert images, and hyperlink inside Text module without programming.
- **Content Linking:** You can configure a dynamic communication between Web Intelligence documents and Crystal report modules on the same BI Workspace tab or subtab.

View Open Document

- **Fiori Logon page**
When compared to the logon page in classic viewer for View OpenDocument, users can now logon to the Fiorified View OpenDocument, and view it in the Unified Document viewer.
- **Details panel**
The Details panel in the old OpenDocument is now removed in the new OpenDocument.
- In the existing BI Platform, LogonNoSSO.jsp is used for manual Logon in case if the SSO is configured in `http://<server>:<port>/BOE/OpenDocument/logonNoSso.jsp?<Supported parameters>`.

SAP Authentication for SAP Entitlement Systems

SAP Authentication is now supported for a user who has access to different client systems of the same entitlement system.

SAP BusinessObjects ONE Uninstaller

SAP BusinessObjects ONE Uninstaller is an interactive command line tool, written in java as an executable jar that can optimize the footprint of BI packages installed in BI system. This tool enables the removal of redundant/obsolete intermediate versions such as Service Pack(s) and Patch(es) without following traditional uninstallation process.

For more information, refer to [2846512](#).

Install Screen to Highlight the Deprecation Activities

You can now view the details of deprecated feature and product while installing the Business Intelligence Platform Server and Client package updates. For more information, refer to [2801797](#). Once the update is installed, you can perform the suggested actions given in the SAP Note.

Allow Report Scheduling to Multiple Destinations

You can now schedule a report to multiple destinations in one go while scheduling the BI content in the Central Management Console (CMC) and Fiorified Business Intelligence Launch Pad.

Partial Success Destination Auditing

A new *Partial Success* status has been introduced when scheduling a document to multiple destinations. If one destination fails, the *Partial Success* status is displayed.

Track Auditing Status

In the CMC, you can now track the status of the Auditing Level metric value under *Central Management Service Metrics* when the *Auditing* is selected as *Off*.

Auditing for failed logon events

In SAP BusinessObjects BI Platform 4.x, if an event is corrupted and can't be inserted in the database, all subsequent events for the same server are blocked.

Recurrence Pattern Option: *Business Hours*

Business Hours: You can now set recurrence options to schedule an object, or one or more components of an object package. The object runs on the particular days of the week, and during the particular hours of the day that are specified under business days and Business Hours.

Automation Framework is now Workflow Assistant

Automation Framework is renamed as *Workflow Assistant* and is now part of the ► *Central Management Console (CMC)* ► *Manage* ▾ section.

You can now manage landscapes through the *Systems* tab in the *Workflow Assistant*.

Multilingual Support

Workflow Assistant now supports the Right to Left languages for BI content.

Managing Hybrid Scenarios

System for Cross-Domain Identity Management (SCIM) based user provisioning APIs are now supported for hybrid scenarios between SAP Analytics Cloud and SAP BusinessObjects Business Intelligence Platform.

Enhanced Credential Mapping

For Data Source referencing, an administrator creates a data source reference in the BI platform user properties, where the database credentials are defined.

This data source reference is used as part of Credential Mapping, which is a mode of authentication available in the Connections.

HANA Workload Classes implementation for CMS DB and Audit DB as part of HANA Audit

SAP HANA Workload classes now provide a way to assign resource limits to individual client applications connected to SAP HANA.

Alert when the Audit system is OFF

The new CMS metrics within the existing framework of CMS metrics is now able to send alert in different alerting mechanisms such as Monitoring, BI Launch pad, and Solution Manager integration.

2.2 SAP BusinessObjects Web Intelligence

New interface design

We've redesigned the interface to make it feel modern and simple, while trying to preserve your usage habits and workflows. One single interface for web and desktop deployment (Rich Client). On the web, this interface replaces the DHMTL and Java modes.

Web Intelligence Rich Client

Web Intelligence Rich Client now shares its interface with the Web version. It comes with a new home page that displays previews of document using thumbnails.

- Use the home page as the starting point for your work.
- Import documents from your BI Platform repository to work on a local copies.
- Edit documents on your local hard drive.

Document as a data source

Reuse existing documents and their metadata to get a jumpstart in your report creation, and unlock new workflows. Share datasets, queries, variables, enrichment and more to reduce the data preparation and save valuable time. Just select a Web Intelligence document that has been saved on the BI Platform repository, pick up the objects you need and get straight to the report design.

Formula language

- New functions added: `DocumentParentFolder`, `DocumentPath`, and `NumberOfColumns`
- Enhanced functions: `Trim`, `LeftTrim`, `RightTrim`
- Comments are now supported in the function's code.

Support for SAP BW InfoProviders

We've extended the support of SAP BW InfoProviders so you can take advantage of the full extent of your SAP BW environment. With access to InfoCubes, MultiProviders, Advanced DataStore Objects, CompositeProviders, Open ODS Views, S4/HANA CDS views and more, we've broadened the scope of SAP BW data sources, while reducing the effort to maintain the lifecycle of BEx queries.

Support for S4/HANA CDS views as BW InfoProviders

We now support S4/HANA CDS views as BW InfoProviders

SAP HANA HTTP connections

We've added support for the HTTP protocol so you can create HTTP connections to your on-premise SAP HANA system, or SAP HANA Cloud Platform, through HANA InfoAccess (InA) services.

SAP HANA smart refresh

We've enhanced query processing on HTTP connections with smart refresh, a query optimization process that allows SQL access and speeds up data retrieval on the HANA database. Depending on the complexity of the query, the application can decide to run SQL rather than HTTP access to the HANA database to retrieve data, and speed up performance.

SNC encryption for the Rich Client

The Rich Client now supports Secure Network Communication encryption for SAP BW OLAP connections.

Security rights

The security rights names have been simplified. We've also added new [Query: Edit Free Hand SQL](#) and [Query: View Free Hand SQL](#) application rights.

Exporting report data to Excel, CSV, TXT, PDF and HTML is now secured by the [Export the report's data](#) right whereas exporting cube data to CSV is secured by the [Export the cube's data](#) right.

Performance

Documents with the [Refresh on open](#) option are automatically purged when saved.

New samples

We've added timestamp data so you can experiment with building time hierarchies with time dimensions, and included GPS coordinates to geographic data. A brand new ZZ_Time_Dimensions sample illustrates the use of

time dimensions, and the ZZ_Input Controls sample has been enhanced with the list of values sorting, and variable as default values features.

2.3 SAP BusinessObjects Web Intelligence and BI Semantic Layer SDKs

SAP BusinessObjects Web Intelligence

RESTful Web Service SDK

SAP BusinessObjects RESTful Web Service SDK for Web Intelligence and the BI Semantic Layer 4.3 (June 2020)

New features supported in SAP BusinessObjects Web Intelligence RESTful Web Service SDK. For more information, please refer to the *SAP BusinessObjects RESTful Web Service SDK User Guide for Web Intelligence and the BI Semantic Layer*.

- Report element calculations:
 - Get all calculations associated to a report element.
 - Get details of a calculation.
 - Create calculations.
 - Delete calculations.
- Publications
 - Get the details of a publication.
- Referenced cells
 - Get the list of referenced cells in a document.
 - Get the definition of a referenced cell.
 - Create a referenced cell.
 - Edit a referenced cell.
 - Delete a referenced cell.

Enhancements to existing APIs:

- Documents
 - Purge a document.
 - Search
 - Use new `limit` and `offset` parameters when searching for resources on the server.
 - Input controls
 - Reorder report input controls.
 - Reorder document input controls.
 - Report elements
 - Create custom number or datetime formats.
 - Set a table cell as a section.
 - Order a report element.
 - Delete all breaks in a report element.
 - Get the list of alerters of a report element.
 - Edit the alerters of a report element.
 - Delete the alerter of a report element.
 - Get the details of a hierarchy member.
 - Report element axes
 - Update all the breaks on a table axis.
 - Delete all the breaks on a table axis.
 - Configuration
 - Get all the marker palettes.
 - Get all the gradient orientations.
 - Get all the locales.
 - Aggregate configuration calls.
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2.4 SAP Crystal Reports

If not specified, the new features listed below apply to both Crystal Reports 2020 and Crystal Reports for Enterprise.

64-bit Crystal Reports

The following Crystal Reports packages are now 64-bit only:

- Crystal Reports 2020 Designer (CR2020)
- Crystal Reports for Enterprise Designer (CR4E)
- Crystal Reports Viewer 2020
- Business View Manager
- Crystal Reports 2020 Servers in BI Platform, on Windows, Linux, and Unix
- Crystal Reports Server Embedded (CRSE)

Consequently, 64-bit middleware, like database drivers, user function libraries (UFLs) are required in 64-bit Crystal Reports.

To allow OEM partners and developers upgrade their solution at their own pace, Crystal Reports .NET Runtime (as part of BI Platform .NET Runtime package) is still provided in both 64-bit and 32-bit.

Expose Crystal Reports 2020 as OData data source

Crystal Reports 2020 recurring schedules can be exposed as OData service (OData v4), and consumed in other applications (for example, SAP Analytics Cloud). For more information, prerequisite, configuration steps, service URL, and examples, refer to the *Crystal Reports 2020 OData Service on recurring schedules* section in the *Fiorified Business Intelligence Launch Pad User Guide*.

Crystal Reports Publication and Scheduling in Fiorified BI Launchpad

Crystal Reports publications can now be created, managed, and scheduled in the newly designed Fiorified BI Launch Pad user interface. Crystal Reports scheduling user interface in the Fiorified BI Launch Pad has also been updated to align with the new publication user interface.

Freeze Panel in Crystal Reports Web Viewer

A new [Freeze Panel](#) button has been added to the Crystal Reports Web Viewer in the BI Launch Pad and Central Management Console. Similarly to Excel, you can now freeze certain parts of current report page, then scroll and compare them with other parts of the page or even other pages easily.

Export to XLSX with page layout

This exporting format is an enhancement on the existing 'Microsoft Excel (XLS)' exporting format, without the 65536 rows and 256 columns restrictions. Compared to the existing 'Microsoft Excel – Data Only (XLSX)' exporting format, this new 'Microsoft Excel (XLSX)' exporting format retains most of the page layout and formatting.

New Platform, Data Sources,...

- Certification of new Operating Systems, Browsers,...
- Certification of new Database and new DB versions, e.g Snowflake, OData as CR4E data source

Refer to the Product Availability Matrix (PAM) for more information.

Deprecated and Removed Features

- Embed Flash in Crystal Reports
- Crystal Reports Java Applet and ActiveX Viewer
- Crystal Reports ActiveX Print Control
- Flash based CR4E Parameter Prompting

2.5 Data Access

New data source support for 4.3.

64-bit application support

The 4.3 release supports 64-bit applications only.

Improved JavaBean connection support

We provide a simpler way for implementing your JavaBean drivers.

DSN-less ODBC connections

We now provide support for DSN-less ODBC connections.

Multi-credential support

You can now use secondary authentication credentials. This feature does not apply to multi-source universes or Data Federator.

Updated HANA support

We provide support for HANA 2.0 SPS04.

New database support

We've provided support for the following database connections:

- Denodo
- Snowflake
- Google BigQuery
- newDb2
- Impala3

2.6 The Information Design Tool

The following new features and enhancements are available in the 4.3 release of the Information Design Tool:

Information Design Tool Enhancements

What's New

The tool now supports 64-bit operating systems.

Extensions are now visible in the Local Projects view and Repository Resources view.

Calculated columns can now be used in lists of values.

What's New

You can now use mapped HANA variables in your documents.

SNC Encryption is supported on SAP BW OLAP connections.

Multidimensional universes on BW InfoProviders and on S/4HANA CDS views set as cubes.

You can now enable SQL access on SAP HANA HTTP connections. This gives an increase in performance when refreshing queries.

2.7 SAP BusinessObjects Analysis, edition for OLAP

Credential Mapping

Administrators can now set the authentication mode to credential mapping.

For more information, please refer to the *Authentication* and *Creating OLAP data source connections* sections in the *SAP BusinessObjects Analysis, edition for OLAP Administrator's Guide*.

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