

SAP BusinessObjects Design Studio
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What's New Guide: SAP BusinessObjects Design Studio



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1 About This Guide

This guide lists new and modified features in SAP BusinessObjects Design Studio that have been implemented since the previous release. It also lists new and modified chapters of the documentation.

➔ Tip

To help you find chapters in the relevant documentation guides, the headings of new and modified features in this guide are identical to the headings in other guides, where features are described in detail.

2 About the Documentation Set

The documentation set for SAP BusinessObjects Design Studio comprises the following guides and online help products:

➔ Tip

The guides and tutorials are regularly updated and enhanced. Make sure that you have the latest version by checking the SAP Help Portal on a regular basis.

Administrator Guide

The Administrator Guide contains detailed information, which users need in order to install, configure and manage SAP BusinessObjects Design Studio. The guide is available on the SAP Help Portal at <http://help.sap.com/boad>

Application Designer Guide

The Application Designer Guide contains the conceptual information, procedures and reference material, which application designers need in order to create analysis applications. The guide is available on the SAP Help Portal at <http://help.sap.com/boad>

End User Guide

The End User Guide contains procedures and background information for users working with analysis applications. This guide is available on the SAP Help Portal at <http://help.sap.com/boad>.

Developer Guide

The *Developer Guide: Design Studio SDK* contains procedures, reference material and background information, which enables developers to create 3rd-party components with the Design Studio SDK and enhance the analysis applications with custom components. The guide is available on the SAP Help Portal at <http://help.sap.com/boad>.

What's New Guide

The What's New Guide lists new and modified features in SAP BusinessObjects Design Studio that have been implemented since the previous release. The guide is available on the SAP Help Portal at <http://help.sap.com/boad>

Online Help

The Online Help contains the same information as the *Application Designer Guide* and the *Developer Guide: Design Studio SDK*, plus an additional chart properties guide called *Charts: Additional Information*. Choose ► [Help](#) ► [Help Contents](#) ► to open the guides in the design tool. You can also set the online help as a view within the design tool. Choose ► [View](#) ► [Help](#) ►.

3 New and Modified Features in Design Studio

This section provides a list of new and modified features in the design tool. You can find more detailed information on the features in the *Application Designer Guide: Designing Analysis Applications*.

3.1 Application Properties

Application properties have been enhanced. The following new additional property is available for applications in the *Property* view:

Behavior

- **Maximum Number of Steps Back:**
A new *Application* property called *Maximum Number of Steps Back* has been added within the *Behavior* application property to allow application users to undo a configurable number of steps using the `State.BackOneStep()` ; method or revert all changes in their current analysis application using the `State.BackToStart()` ; method. Set ► *Application Properties* ► *Behaviour* ► *Maximum Number of Steps Back* to an integer value more than zero. This property is set to zero or disabled by default. So, if you set the integer value to 10, the user will be able to undo 10 steps within their current application. The recommended maximum value is 20. Once the property is set to a value more than zero, the reset feature is then also enabled.

Note

You can refer to the chapters called “Applying Undo Steps or Resetting within an Application” and “API Reference” in the *Application Designer Guide: Designing Analysis Applications*.

Related Information

[Applying Undo Steps or Resetting within an Application](#) [page 18]

[API Reference](#) [page 14]

3.2 Filtering in Component View

A filter field has been added to the top of the *Components* view. This field allows the designer to enter text and thereby filter for a specific component. If the designer enters a text, a simple substring filtering operation is performed. The following aspects are important when using this function:

- When entering a filter text, the application designer cannot use wildcards.
- The components groups (for example, *Analytic Components* or *Basic Components*) are automatically hidden if no match was found in the group, or expanded if they are currently collapsed and contain a match with the filter string.

3.3 Global Script Functions

In local mode and in BI platform mode, application designers can now create any number of *Global Scripts Objects*. This is a new technical component type, which provides a grouping of global script functions. On each global scripts object, it is possible to create any number of script functions. Each script function has a configurable return type and can have any number of typed input parameters. The following types can be used for return values and input parameters:

- primitive types (int, boolean, String, float)
- primitive type void - only as return value)
- DataSourceAlias
- all UI component types (Button, Tabstrip, ...) including SDK extension components

Note

Array types are currently not supported.

The global scripts objects and the script functions they contain are displayed in the tree in the Outline view.

Besides creating new script functions, the application designer can also:

- edit existing script functions by reopening the Create Script Function dialog box
- rename existing functions (which automatically refactors each occurrence in scripts)
- delete script functions
- find all references to the script functions in scripts

3.4 Enabling Text Translation in Analysis Applications

In local mode and in SAP NetWeaver mode, you can now provide all texts of your analysis applications in different languages.

In addition to the texts from the data sources, analysis applications can contain translatable texts, like labels on buttons or messages, which are created by the application designer. Whereas component texts like labels on buttons are created as property values, you can now also create dynamic texts that consist of different translation-relevant text parts. You create these dynamic texts with scripting and can use them for messages, for example.

To enable the translation of these texts, you need make your application translatable by adding a [Text Pool](#) component to your application.

The system collects the texts of your analysis application in the [Text Pool](#) component and saves them for translation. The storage and translation mechanism of the texts depends on the platform you use.

Related Information

[Working With Translatable Texts in Analysis Applications](#) [page 26]

[Coordinating the Translation of Translatable Texts in Local Mode](#) [page 27]

3.5 User Interface Reference and Components

3.5.1 Checkbox Group

A new basic component is now available: the checkbox group. The checkbox group displays several checkboxes, each for one item. All checkboxes are aligned in a vertical fashion. Checkbox groups enable the user to interact within the application. To do this, the application designer adds a script to the [On Select](#) property of the checkbox group. The script is triggered when the user activates or deactivates one checkbox in the application.

3.5.2 Chart Component



3.5.2.1 Chart Properties

Chart properties have been enhanced. The following new additional property is available for charts in the [Additional Property](#) view:

X-Axis and Y-Axis

- Extend Label Capacity:
A new [Chart](#) property called [Extend Label Capacity](#) has been added within the [X-Axis](#) and [Y-Axis](#) properties to allow application users to extend the maximum space taken by the axis labels from the default 25% to 75% of the entire chart area.

Note

For more detail on [Chart](#) additional properties, see the chapter called “Chart Area Additional Properties” in the *Application Designer Guide: Designing Analysis Applications* and *Charts: Additional Information* under [Help](#)  [Help Contents](#)  in the design tool.

3.5.2.2 Clear Selection

The scripting API can be used to allow application users to clear their current [Chart](#) selection as well as clearing the filters set on the [Chart](#).

The following method can be used in conjunction with the `CHART.clearFilter()` ; method:

- `CHART.clearSelection()` ;
You can find more detailed information on in the *Application Designer Guide: Designing Analysis Applications* in the chapter called “API Reference” and the chapter called “Analytic Components”.

Related Information

[API Reference](#) [page 14]

3.5.2.3 Get Selected Members

The chart scripting function `getSelectedMembers()` ; , allows the application user to select more than one member in their chart and return an array of all currently selected members using a dimension identifier . The `Get`

`Selected Members` function can be used in conjunction with the `setFilter` function, which can be used to set a filter for an array of measures and dimensions in the internal key format.

Note

The `getSelectedMembers()` function is recommended for all chart selection modes, except for single. The `getSelectedMember()` function is only compatible with chart selection mode single.

Example

The dimension in a Calendar Year/Quarter has a list of members signifying the years and quarters. ie [1.2003,2.2003,3.2003,4.2003,1.2004,2.2004,3.2004]. If the selection on the chart is [2.2003,1.2004] the `getSelectedMembers()` function would return [2.2003,1.2004]

For more detail on [Chart](#) selection modes and additional properties, see the chapter called “Chart Area Additional Properties” in the *Application Designer Guide: Designing Analysis Applications*.

Related Information

[API Reference](#) [page 14]

3.5.2.4 Time Based Line Chart

The [Time Based Line](#) chart is an integral component of the Real-Time package. The [Time Based Line](#) chart is a chart extension to which the streaming data source can be connected. Effectively the chart decouples the plot area from the X-Axis, allowing the spacings in the plot area be independent from the spacings on the axis. The data shown in the plot area is placed according to its time dimension rather than the index in the data.

For more information, you can refer to the chapter called “Working with Real-Time Dashboards” in the *Application Designer Guide: Designing Analysis Applications*.

Related Information

[Timer Custom Component](#) [page 13]

[Working with Real-Time Dashboards](#) [page 22]

3.5.3 Crosstab Component

The [Crosstab](#) component properties have been enhanced as follows:

- [Conditional Formatting Visible](#)

To return the names of conditional formats using the new *DataSourceAlias* scripting methods, this property needs to be set to *true*. For more information on these new methods, you can refer to the *API Reference* chapter of this guide.

- *Enable Context Menu*

This property specifies whether a context menu can be displayed on the crosstab. The context menu can only be displayed on the crosstab, if the property is set to *true* and the technical component CONTEXT_MENU is available in the application (in the *Outline* view in the *Technical Components* folder).

- *Maximum Width of Header Area*

Specifies the header area width of the crosstab. If the property is set to auto (default setting), the header uses as much horizontal space as it needs. You can limit the crosstab header area by entering a positive integer value > 0, which represents the maximum row and/or dimension header width in pixels.

- *Show Repeater Texts*

Specifies if multiple header cells with the same texts are merged into single cells with row spans or column spans.

Related Information

[Crosstab Component](#) [page 11]

3.5.4 Dimension Filter Component

The *Dimension Filter* component properties have been enhanced as follows:

- Desktop Popup Style

Specifies the style of the value help popup. If the property is set to true, the value help popup is displayed in a slightly different style.

3.5.5 Filter Panel Component

The *Filter Panel* component properties have been enhanced as follows:

- Drag & Drop

By selecting this property, you enable the application user to change the axis of the dimension in navigation mode by using drag & drop.

3.5.6 Fragment Gallery Component

The *Fragment Gallery* is a basic component that is used to store an application users own portable fragment bookmarks at runtime. The *Fragment Gallery*, along with the *Split Cell* plays an integral role in the online composition feature. You can configure the *Fragment Gallery* to display in different ways, for example, vertically or

horizontally. You can also configure the portable fragment bookmarks within the [Fragment Gallery](#) to display as an image, as text or as a combination of image and text.

You can find more detailed information on using the [Fragment Gallery](#) in the *Application Designer Guide: Designing Analysis Applications* in the chapter called “Using the Online Composition Feature”.

Related Information

[Split Cell Container Component](#) [page 13]

[Using the Online Composition Feature](#) [page 19]

[Portable Fragment Bookmarks](#) [page 20]

3.5.7 Split Cell Container Component

The [Split Cell](#) container component enables the end user to place and arrange portable fragment bookmarks, dragged from the fragment gallery, in a tabular manner. Thus the Split Cell component can only be used with the Fragment Gallery component and the portable fragment bookmarks which can be created by using the corresponding API methods.

The Split Cell component is not available for the SAP HANA mode.

3.5.8 Timer Custom Component

The [Timer](#) custom component is an integral part of the Real-Time package. The [Timer](#) custom component can be used with the OOTB [Chart](#) component to create near Real-Time dashboards with single or multiple SAP HANA or SAP BW data sources.

For more information on the Real-Time package, you can refer to the chapter called “Working with Real-Time Dashboards” in the *Application Designer Guide: Designing Analysis Applications*.

Related Information

[Working with Real-Time Dashboards](#) [page 22]

[Time Based Line Chart](#) [page 11]

3.6 API Reference

The API reference has been enhanced as follows:

New Constant `layout.AUTO` for Layout Properties

It is now possible to set AUTO for layout properties with methods like `setLeftMargin()` or `setHeight()` by using the constant `Layout.AUTO`

New Methods

The following methods are new:

- Methods relating to the object `Application`:
 - `getResourceString`
 - `getUserAgent`
 - `searchDataSources`
- Methods relating to the object `Bookmark`:
 - Standard Bookmark:
 - `getBookmarkInfo`
 - Fragment Bookmark:
 - `deleteAllBookmarks`
 - `deleteBookmark`
 - `getAllBookmarkInfos`
 - `getBookmarkInfo`
 - `getBookmarkUrl`
 - `loadBookmark`
 - `saveBookmark`
 - `shareBookmark`
 - Portable Fragment Bookmark:
 - `deleteAllBookmarks`
 - `deleteBookmark`
 - `getAllBookmarkInfos`
 - `getAllBookmarkInfosForApplication`
 - `getBookmarkInfo`
 - `getBookmarkUrl`
 - `loadBookmark`
 - `saveBookmark`
 - `shareBookmark`

-
- Methods relating to the object Button
 - getTooltip
 - setTooltip
 - Methods relating to the object Chart:
 - clearSelection
 - getSelectedMembers
 - Methods relating to the object Checkbox:
 - getTooltip
 - setTooltip
 - Methods relating to the object Checkbox-Group (new object):
 - addItem
 - getSelectedTexts
 - getSelectedValues
 - isEnabled
 - removeAllItems
 - removeItem
 - setEnabled
 - setItems
 - setSelectedValues
 - sort
 - Methods relating to the object DataSourceAlias:
 - getMeasuresDimension
 - getVariableValue
 - getConditionalFormats
 - getConditionalFormatName
 - setConditionalFormatActive
 - isConditionalFormatActive
 - getMeasureFilters
 - getMeasureFilterName
 - isMeasureFilterActive
 - setMeasureFilterActive
 - Methods relating to the object Dimension:
 - isMeasureDimension
 - Methods relating to the object Dimension Filter:
 - setDimension
 - showFilterDialog
 - Methods relating to the objects Dropdown Box, List Box, Radio Button Group
 - getTooltip
 - setTooltip
 - Methods relating to the object Fragment Gallery:
 - addItem
 - addItems

Methods relating to the object Image:

- getTooltip
- setTooltip
- Methods relating to the object Input Field:
 - getTooltip
 - isEditable
 - setEditable
 - setTooltip
- Methods relating to the object Member:
 - getAttributeMember
- Methods relating to the object Pagebook:
 - getPageCount
- Methods relating to the object SdkDataSource (new object):
 - clearAllFilters
 - clearFilter
 - getDimensions
 - getFilterText
 - getMeasureDimension
 - getData
 - getDataAsString
 - getDimensionText
 - getMembers
 - setFilter
- Methods relating to the object State:
 - backOneStep
 - backToStart
 - isBackOneStepAvailable
 - isBackToStartAvailable

4 New and Modified Features in Analysis Applications

This section provides a list of new and modified features for users working with analysis applications on desktop browser and mobile devices. You can find more detailed information on the features in the *End User Guide: SAP BusinessObjects Design Studio*.

4.1 Context Menu

The new technical component *Context Menu* enables the application user to navigate and analyse data at runtime. At design time, the context menu is automatically added to every new application, but can be removed if not required. Depending on the context, the following menu options are available:

- for dimensions
 - sort the dimension
 - change the member display of the dimension
 - choose which display attributes are shown in the result set
 - switch the totals display of the dimension
 - filter members
 - change the drill down
- for attributes
 - sort the dimension according to this attribute
 - change the member display of the attribute
- for result set data cells
 - cell locking (if the query and the data cell is input-enabled)
- for structure members
 - sort the structure member
 - change the drill down
 - filter the structure
 - change the number format of the data cells belonging to this structure member
 - change the totals calculation mode
- jump targets (RRI targets), if these targets are specified for the query

4.2 Report-Report Interface

The feature report-report interface (RRI) allows application users to jump from a Design Studio application to a jump target, as defined in the BW system.

The context menu of an analysis application displays a list of generic RRI targets that are available for the selected query. If query elements have specific targets, the context menu for the jump targets contains an additional entry [More...](#), which retrieves these specific targets and displays them to the application user.

4.3 Applying Undo Steps or Resetting within an Application

New API methods have been introduced to allow application users to undo a configurable number of changes or steps (up to 20) within their current analysis application or revert all changes in their current analysis application back to the original start point.

You can find more detailed information on applying undo steps or resetting your application in the *Application Designer Guide: Designing Analysis Applications* in the chapters called “Changing an Analysis Application” and “API Reference”.

Related Information

[API Reference](#) [page 14]

4.4 Changes to MS Excel Export

When a user specifies and exports a [Crosstab](#) from SAP BusinessObjects Design Studio into Microsoft Excel 2000 or Microsoft Excel 2007, the metadata is separated from the [Crosstab](#) data and displayed in a separate tab in the MS Excel spreadsheet. For example, the [Crosstab](#) itself is represented in sheet 1. Sheet 2 contains the metadata including runtime changes, applied filters and/or variables.

4.5 Working with Bookmarks

There are two new types of bookmarks that can be applied when working with Design Studio analysis applications:

- fragment bookmarks
- portable fragment bookmarks

If you wish to serialize only a selected part of your analysis application, you can apply a fragment bookmark or portable fragment bookmark to your application.

Scripting methods can be used to allow application users perform various functions at runtime with their own bookmarks. These functions include:

- deleting

- listing
- loading via scripting
- loading via Url
- saving
- sharing

You can find more detailed information on working with bookmarking features in the *Application Designer Guide: Designing Analysis Applications* in the chapter called “Working with Bookmarks”.

Note

All aspects of bookmarking are supported on BIP, SAP NetWeaver and local mode. Bookmarking is not supported on the SAP HANA platform.

Related Information

[Fragment Bookmarks](#) [page 20]

[Portable Fragment Bookmarks](#) [page 20]

[Obsolete Bookmarks](#) [page 21]

[Using the Online Composition Feature](#) [page 19]

[Sharing a Bookmark](#) [page 21]

4.5.1 Using the Online Composition Feature

The online composition feature allows application users to create and edit their own applications at runtime, based on a selection of their own saved application portable fragment bookmarks.

To create their own runtime applications, the user drags their own portable fragment bookmarks from a [Fragment Gallery](#) component and drops them into a [Split Cell](#).

You can find more detailed information on Online Composition features in the *Application Designer Guide: Designing Analysis Applications* in the chapter called “Working with Bookmarks”.

Related Information

[Portable Fragment Bookmarks](#) [page 20]

[Fragment Gallery Component](#) [page 12]

[Split Cell Container Component](#) [page 13]

4.5.1.1 Portable Fragment Bookmarks

A portable fragment bookmark is a type of bookmark that can be exchanged between an application users own applications using a common reference called a Group Identifier. Users can capture the state of a selected area of an application using a portable fragment bookmark and consume that bookmark in other applications at runtime. It is the only bookmark type that can be loaded into the *Fragment Gallery* and dropped into a *Splitcell* for usage during the online composition feature.

You can find more detailed information on portable fragment bookmarks in the *Application Designer Guide: Designing Analysis Applications* in the “Working with Bookmarks” chapter.

Related Information

[Working with Bookmarks](#) [page 18]

[Fragment Gallery Component](#) [page 12]

[Split Cell Container Component](#) [page 13]

[Using the Online Composition Feature](#) [page 19]

4.5.2 Fragment Bookmarks

Users may want to identify parts of their application that are to remain unchanged, while other parts of their application change. Fragment bookmarks are used to serialize a fragment or part of an analysis application. If you wish to serialize only a selected part of an analysis application, you must save within a single container component, the element(s) of the analysis application that are to be persisted. Any component or components inside the specified container, including the container itself, will be serialized. The following container components can be saved as fragment bookmarks:

- FilterBar
- Grid layout
- Pagebook
- Panel
- Tabstrip
- Splitcell

You can find more detailed information on fragment bookmarks in the *Application Designer Guide: Designing Analysis Applications* in the chapter called “Working with Bookmarks”.

Related Information

[Working with Bookmarks](#) [page 18]

[Portable Fragment Bookmarks](#) [page 20]

[Obsolete Bookmarks](#) [page 21]

[Using the Online Composition Feature](#) [page 19]

[Sharing a Bookmark](#) [page 21]

4.5.3 Sharing a Bookmark

Application users can now share a bookmark Url, by choosing the [Send by email](#) button within the [Share Bookmark](#) dialog box. This opens an email directly from the current application browser. The subject field of the generated email is pre-populated with the title of both the application and the bookmark the user wants to share. The body of the email contains a copy of the actual bookmark link. Users can then edit the email as required and share a bookmark of their application by sending the email to the appropriate recipients.

You can find more detailed information on sharing a bookmark in the *Application Designer Guide: Designing Analysis Applications* in the chapter called “Working with Bookmarks”.

Related Information

[Working with Bookmarks](#) [page 18]

4.5.4 Obsolete Bookmarks

Standard and portable fragment bookmarks are deemed obsolete if the application user makes a change to them subsequent to them being saved. Fragment bookmarks are never obsolete.

You can find more detailed information on obsolete bookmarks in the *Application Designer Guide: Designing Analysis Applications* in the chapter called “Working with Bookmarks”.

Related Information

[Working with Bookmarks](#) [page 18]

[Fragment Bookmarks](#) [page 20]

[Portable Fragment Bookmarks](#) [page 20]

[Using the Online Composition Feature](#) [page 19]

[Sharing a Bookmark](#) [page 21]

4.6 Working with Real-Time Dashboards

The Real-Time package consists of components that support the ability to create visualizations with streaming data (push based), but also allow users to create visualizations, which have a near Real-Time connection to SAP HANA or SAP BW (pull based). The Real-Time package can be installed as an extension to Design Studio.

A streaming data source component allows you to connect to the streaming data source SAP ESP and then connect to Design Studio charts to create visualizations of these streams of real time data. SAP ESP enables you to create and run your own complex event processing (CEP) applications to derive continuous intelligence from streaming event data in real time.

You can create visualizations with near Real-Time connections to SAP HANA or SAP BW (pull based) data sources by using the Timer custom component in conjunction with the standard out of the box charts within Design Studio. The Timer custom component allows you to set an interval in milliseconds, at which point it runs a user-defined script.

The real-time package contains the following:

- Design Studio extension for an SAP ESP (Event Stream Processor) data source, which allows streaming data from SAP ESP to be connected to standard charts.
- Time Based Line chart as a chart extension which supports time axis scaling as well as a number of other formatting properties.
- A Timer custom component. The Timer custom component allows users to create near Real-Time charts using the OOTB Chart component and connected to SAP HANA or SAP BW.

i Note

For more information on working with Real-Time dashboards and the administrator steps required for installation and configuration, you can refer to the *Application Designer Guide: Designing Analysis Applications* and the *Administrator Guide: SAP BusinessObjects Design Studio* respectively.

Related Information

[Timer Custom Component](#) [page 13]

[Data Source SDK](#) [page 23]

[Time Based Line Chart](#) [page 11]

5 New and Modified Features for Developing Extensions

This section provides a list of new and modified features for developing extensions with the Design Studio SDK. You can find more detailed information on the features in the *Developer Guide: Design Studio SDK*.

5.1 Data Source SDK

In addition to creating SDK components that visualize data from a data source, you can now create SDK components that act as data sources for SDK components themselves. These are called **SDK data sources**. This enhancement enables SDK components to access a broad range of data sources such as local files, Web services, or new types of backend system. You can implement access to the data and supply the data to SDK extension components using the APIs of the Data Source SDK.

5.2 SDK Extensions Using SAPUI5 Controls

The following new functions are called during the rendering lifecycle of SAPUI5-based SDK extension components:

- Function `beforeDesignStudioUpdate`
- Function `afterDesignStudioUpdate`

5.3 Contribution XML

The following additions to the Contribution XML enhance the capabilities of SDK components:

- Property type `Text` - The new property type `Text` flags a property as a translatable text.
- Options for data-bound properties - Data-bound properties provide options to fine-tune the content of a data source (Metadata Runtime JSON and Data Runtime JSON) that is sent from the Runtime to the browser. This improves bandwidth usage.

5.4 JavaScript Function Calls

The new Component JavaScript function `firePropertiesChangedAndEvent` reduces the number of server roundtrips.

5.5 JSON Properties

The Metadata Runtime JSON and Data Runtime JSON have been enhanced as follows:

- The Metadata Runtime JSON of a data-bound property contains the `externalDimensions` property to model result sets with no key figures in the row or column dimensions.
- The Data Runtime JSON of a data-bound property contains the `formattedData` property to provide formatted data.
- The Data Runtime JSON of a data-bound property contains the `columnCount` and `rowCount` property to facilitate rendering of tabular data.
- The `selection` property of the Data Runtime JSON of a data-bound property also contains the correct values for data-bound properties of type `ResultSetSet`.

5.6 SDK Samples

The SDK samples have been adapted to include the new capabilities of the SDK. In addition, the following SDK samples have been added:

- `ConstantDataSource`
- `CSVDataSource`

6 New and Modified Administration Options in Design Studio

This section provides a list of new and modified options for administrators. You can find more detailed information on the options in the *Administrator Guide: SAP BusinessObjects Design Studio*.

6.1 64-Bit Version of Design Tool Installer

The Design Tool installer is now available in two versions: 32-bit and 64-bit.

6.2 New Supported Languages

Message texts and tooltips in the analysis applications are now available in Polish and Hungarian. These new languages are available in Design Studio used in local mode, and in Design Studio with a BI platform or SAP NetWeaver platform.

6.3 Installing CVOM Chart Extensions

You can install new chart types developed with the SAP Lumira SDK to Design Studio. These SDK extensions, also known as CVOM chart extensions, are added to the list of additional chart types for the standard chart component.

You can create and execute local analysis applications containing these new chart types. After deploying the CVOM chart extensions to SAP NetWeaver or the BI platform, application users can launch analysis applications containing the chart extensions from one of the supported platforms.

Note

CVOM chart extensions are not supported in Design Studio if SAP HANA is used as the platform.

6.4 Setting RSADMIN Parameters for Analysis Applications

With Design Studio based on SAP NetWeaver, you can now set RSADMIN parameters for analysis applications. In the BW system, the following RSADMIN parameters can be set for analysis applications:

- Display mixed values
- Display unauthorized values as
- Display division by zero as
- Display non-existent values as
- Display values with mixed units as
- Display overflow values as
- Display attribute texts even if blank

If you use the parameters for Design Studio and also another client tool, for example BEx Web, and you want to use different settings in the two tools, you can override the existing settings with a Design Studio-specific setting that will be ignored by other tools.

6.5 Configuring the Report-Report Interface for Analysis Applications

Before application users can use the report-report interface (RRI) in analysis applications, you need to configure the jump targets for the query that is used as data source in the analysis application.

If the jump target, which is configured for the data source query, is also a query, the target query is launched as a BEx Web application by default. In order to avoid this and ensure that the jump is handled by Design Studio and the target query is displayed as an analysis application, you need to specify a generic analysis template on your platform (SAP NetWeaver, BI platform or local mode).

6.6 Working With Translatable Texts in Analysis Applications

If SAP NetWeaver is your platform, texts like labels on buttons or messages, which are created by application designers, are now translatable. The texts are stored in the BW system in the TLOGO object table `RSOA_T_TEXT` for each analysis application. You can translate the texts with standard translation tools, for example, transaction `SE63`.

At runtime, the texts of the analysis application appear in the BW logon language of the application user. If there are no translated texts available in this language, the texts of the analysis application (`.biapp` file) are displayed. By default, these are English texts.

6.7 Coordinating the Translation of Translatable Texts in Local Mode

In local mode, the translatable texts of an analysis application are stored in the `localization.properties` file that is located in the directory of your analysis application. To prepare the translation of the texts, you can copy the file, append the required ISO language code as required, and save the translated files in the same directory. When executing the analysis application locally, you see the translated texts displayed as specified in your language settings in the Web browser.

6.8 Maintaining Settings in the Design Tool in Local Mode

There is a new setting on the [Preferences](#) page of the design tool used in local mode. Under [Tools](#) [Preferences](#) [Application Design](#), you will find a new section: [Report-Report Interface](#). Here you can specify the locally saved generic analysis template that you want to be used for query jumps in local mode. In analysis applications, application users can jump to predefined queries. These target queries are then displayed in the generic analysis template that you have defined on the [Preferences](#) page.

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