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1  About this Guide

1.1  Who Should Read this Guide?

This guide is intended for users working with analysis applications on desktop browser and mobile devices.
2 Getting Started

2.1 What is SAP BusinessObjects Design Studio?

SAP BusinessObjects Design Studio enables application designers to create analysis applications and dashboards based on BW, SAP HANA and universe data sources - for browsers and mobile devices (iPads, for example). It is the product of choice when full support for BW and HANA data models and engine capabilities is required. The product offers a design tool that allows you to create applications easily and intuitively without the need for native HTML and iPad UI programming skills.

SAP BusinessObjects Design Studio can be used locally and integrated in the following platforms:
- SAP BusinessObjects Business Intelligence (BI platform)
- SAP NetWeaver
- SAP HANA

Note

In local mode, you can create demo analysis applications for evaluating SAP BusinessObjects Design Studio with users at customer locations.

Besides analysis applications, application designers can also create planning applications that support both manual and automated data entry and changes to data. The application user can enter the planning data manually in the crosstab (in cells or rows) or use planning functions and planning sequences (also known as planning objects) in SAP NetWeaver BW Integrated Planning to enter data automatically. For planning data, you have to use a BW backend system as the planning system.

A Real-Time package, also available with Design Studio, allows application designers to create visualizations with streaming data (push based), and to create visualizations, which have a near Real-Time connection to SAP HANA or SAP BW (pull based). Real-Time dashboards apply in the area of operational systems, where data may only be relevant as it occurs and where it may not be necessary to persist the data - for example, utility companies monitoring smart buildings and the financial capital markets.

In addition to the standard palette of components in Design Studio, which are used to visualize data and enable user interaction, you can develop 3rd party components with the Design Studio SDK and enhance your analysis applications with custom components. Besides SDK components that visualize data from a data source, you can also create SDK components that act as data sources for SDK components themselves. This 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 store and provide access to the analysis applications containing the 3rd party components on any of the supported platforms.
3 Working with an Analysis Application

3.1 Working with Bookmarks

You can decide to serialize or bookmark the state of your entire analysis application or serialize only a selected part of your analysis application. You can also decide to create or edit one of your own applications by working with the online composition feature. The application designer uses scripting methods to allow you perform various functions with applications.

For more information on using the online composition feature, you can refer to the “Using the Online Composition Feature” in this guide.

Related Information

Using the Online Composition Feature [page 7]

3.1.1 Deleting Bookmarks

Context

You want to delete one or all of your bookmarks within your analysis application.

Note

You cannot delete bookmarks created by other application users.

Procedure

1. Within the application, select the bookmark you want to delete.
2. Choose the component to call the delete function.
3.1.2 Listing Bookmarks

Context

You want to list all your bookmarks in your analysis application.

Procedure

Within the application, select the component to call the list function.

3.1.3 Loading a Bookmark via Url

Context

You wish to load bookmarks shared with you by other application users via Url in the browser bar.

Procedure

1. Paste the Url into your native browser bar when the Design Studio application is running.
2. You will be presented with the shared analysis application.

3.1.4 Loading a Bookmark via Scripting

Context

You wish to load a bookmark from within your analysis application.

Procedure

Within the application, select the component that calls the load function.
3.1.5 Using the Online Composition Feature

Context

You can create and edit your own applications online, based on a selection of your own bookmarked applications. To create your own online applications, you can apply the drag and drop paradigm to drag your bookmarks from a gallery and drop them onto your layout area and arrange as you wish. In this way, you are creating new applications that you can now save and share with other application users. As part of online composition, the layout area adjusts itself to accommodate the bookmarks or application building blocks as they are dropped in.

It is important to note that there are prescribed user interactions with the dragging and dropping of the bookmarks. To drag and drop your bookmarks successfully, you must do the following:

Procedure

1. Select your chosen bookmark from the gallery and drop it onto your layout area.
2. You can replace the content in an existing area by dropping a bookmark from the gallery into the same area.
3. When adding content, you should drop the bookmark to the right or below an existing area.
4. If you add content to the right, your content is added as a new column in the layout area.
5. You can freely resize the cells by moving the mouse pointer between two cells. A resize bar is displayed. When you drag the resize bar, the areas adjacent to the bar are changed in size accordingly.
6. If you hover with the mouse pointer over the top of an area, a menu bar is displayed. To delete the cell, you have to click the delete symbol in this bar.
7. You can move cells by hovering with the mouse pointer over the top of an area until the menu bar is displayed. By dragging the bar, you can move the cells and drop them within the area as described above.

3.1.6 Personalization

Context

You are in an analysis application and you wish to personalize or save the state of this analysis application so that later you can restore that default state when reloading the application.

Procedure

To set personalization, select the component that allows you to personalize your application.
3.1.7 Saving a Bookmark

Context

You wish to save a bookmark of your entire analysis application or a part of your analysis application.

i Note
Bookmarks can also be saved in local mode for testing and development purposes.

Procedure

Within the application, select the component that calls the save bookmark function. Buttons may be scripted separately to allow you save the entire application or selected parts for usage during the online composition feature.

3.1.8 Sharing a Bookmark

Context

You want to share by email a bookmark you have created. To share your bookmark by email, follow these steps:

Procedure

1. Open the bookmarked application.
2. Within the application, select the component to call Share Bookmark.
3. A dialog box appears containing the URL of the current bookmark.
4. Choose the Send by email button to open an email directly from your current application browser. The subject field of the generated email is pre-populated with the title of both the application and the bookmark you want to share. The body of the email contains a copy of the actual bookmark link.
5. You can then edit the email as required and share a bookmark of your application by sending the email to the appropriate recipients.
6. To exit the Share Bookmark dialog box, choose the Close button.
4 Working with Planning Applications

4.1 Locking Cells

Context

You can lock input-ready crosstab and total cells in planning applications. A locked cell cannot be changed manually when the crosstab is recalculated. The cells are locked for the current user session only. You can also unlock the cells during the session.

Procedure

1. Select the crosstab cell you want to lock.
   The selected cell must be input-enabled and must not have been changed since the last recalculation.
2. Open the context menu of the selected cell and choose Lock cell.
   If you want to unlock the cell, select it and open the context menu. You can now deselect the menu entry Lock cell.

Results

The selected cell is locked for changes and is displayed with a lock icon 🗝.
5 Printing an Analysis Application

Context

You want to print your analysis application.

Note

Printing is not supported when using the SAP BusinessObjects Mobile solution.

Procedure

Within the application, select the component to call the print function. Your analysis application will then be printed.
6  Working with the crosstab

6.1  Adjusting Column width in Crosstab for Desktop Applications

Context
If the content of a column in the displayed crosstab is larger or smaller than the calculated column width, you can adjust the column width to the length of the cell content.

Procedure
1. Hover over the column header cell that you want to adjust, to show the clickable area in the right cell margin.
2. Double-click this area to adjust the column width.

6.2  Adjusting Column Width for Crosstabs for iPad Applications

Context
If the content of a column in the displayed crosstab is larger or smaller than the calculated column width, you can adjust the column width to the width of the cell content.

Procedure
1. Tap and hold the column header cell you want to adjust.
2. Choose Adjust column width.
7 Working with the Filter Panel

7.1 Filtering Data in the Crosstab using the Filter Panel

Prerequisites

You are working in an application that contains a crosstab and a filter panel.

Context

In the filter panel, click the arrow symbol to the right of the dimension name.

Procedure

1. In the Selection tab, select the dimension members you want to use for the filter OR touch the dimension and type in the member names.
2. Choose Show Selected Members to see your selection.
3. Choose Apply in the filter panel.

7.1.1 Excluding Dimension Members in the Filter Panel

Procedure

1. In the filter panel, click the arrow symbol to the right of the dimension name.
2. In the Selection tab, select the dimension members you want to use for the filter.
3. Choose Show Selected Members to see your selection.
4. Choose Exclude, if you want the selected members to be excluded from the crosstab.
5. Choose Apply in the filter panel.
7.1.2 Defining a Range for Dimension Members

Context

The range tab in the filter panel is only displayed for dimension members for which you can define a range.

Procedure

1. In the filter panel, click the arrow symbol to the right of the dimension name.
2. In the Range tab, choose Starts at and select the dimension member the range should start with.
3. Choose Ends at and select the dimension member the range should end with.
4. Choose Apply in the filter panel.

7.1.3 Defining Several Ranges

Procedure

1. In the filter panel, click the arrow symbol to the right of the dimension name.
2. In the Range tab, define the range.
3. Choose Add To List.
4. Repeat the steps to define other ranges.
5. Choose Show Selected Ranges, to see all defined ranges.

7.1.4 Excluding a Range

Procedure

1. In the filter panel, click the arrow symbol to the right of the dimension name.
2. In the Range tab, define the range.
3. Choose **Add To List**.
4. Choose **Show Selected Ranges**.
5. Choose **Exclude** to exclude the members defined in the range.
6. Choose **Apply** in the filter panel.

### 7.1.5 Defining a Range: Greater Than or Equal/Less Than or Equal

**Procedure**

1. In the filter panel, click the arrow symbol to the right of the dimension name.
2. For **greater than or equal ranges**: in the **Range** tab, choose **Starts at** and select the dimension member the range should start with. For **less than or equal ranges**: in the **Range** tab, choose **Ends at** and select the dimension member the range should end with.
3. Choose **Apply** in the filter panel.

### 7.2 Assigning Dimensions to Rows or Columns of the Result Set

**Procedure**

1. Choose either the rows symbol or the columns symbol on the left of the chosen dimension in the filter panel.
2. Choose **Apply** to implement the change in the crosstab.
7.3 Reordering Dimensions in Rows or Columns

Procedure

In the header of the filter panel, choose group view symbol (rows or columns) to reorder the dimensions.
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