SAP Design Studio 1.6 SP2 Overview and Roadmap

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Agenda

Overview

Design Studio 1.6SP2 Update

Roadmap
Leverage enterprise assets as they are

- Connect to BW, HANA and 3rd party enterprise data through existing data models
- Leverage planning infrastructure (BW-IP, BPC embedded model)
- Leverage existing user authorizations and data security in BW and BI Platform

Leverage future investments in BI4 platform, e.g.

- Performance and reliability
- Commentary infrastructure
- Refer to the BI4 roadmap for more details

Leverage investments in BI4 Client Suite

- Close Interoperability with Lumira
- Close Interoperability with Analysis Office
SAP Design Studio 1.6 SP2

- Drag & Drop Powerful Visualizations and Controls: Tables, Charts, Geo Map, Filters, Graphics etc.
- Personalized Online Composition for End-Users
- Access Enterprise Data Sources: BW, HANA, UNX, ESP Event Streaming
- Full OLAP & Planning Support, Dashboards
- Rapid Prototyping with Offline Data (CSV)
- Standard Apps for Analysis, Planning, Data Exploration, Self-Service
- State of the art HTML5 Rendering & Mobile Support

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How IT and Business Users use Design Studio

Design Studio

Create & Deploy

Modify (optional)

Deploy

Custom Apps

Analysis, Explore, Re-compose, Personalize & Share

Personal Views

Self-Service Dashboards

Design Studio Technology

Design Studio design tool (Eclipse)

Design Studio app (HTML5)

Design Studio bookmark (HTML5)
Agenda

Overview

Design Studio 1.6SP2 Update

Roadmap
End user
- Resizable, movable dialogs
- Display scaling factors in Info Chart
- Waterfall Info Charts

Analyst
- Ad-hoc currency conversion
- Build virtual hierarchy of stacked dimensions
- Cascading Filter for Universe and CSV as Data Source

Designer, developer, admin
- New standard components, e.g. Dialog, Filter Bar, Link, Multi-Line Text Input, Switch, Progress Bar (Fiori Library)
- Info Chart Enhancements
- Initial View Editor: Simple Calculations
- Designer UI Enhancement: Compact Palette View
Resizable, movable Dialog

- New component available in fiori Library
- Container component
- Free-defined buttons for dialog footer
- Movable, resizable and full screen maintained in property sheet

![Add/Edit Dialog Footer Buttons](image1)

![Script Editor](image2)

![Settings](image3)
Displaying Scaling Factors in Info Chart
- Showing data label including scaling factor with Tooltips

Waterfall Info Chart
- New chart type
- Semantic coloring (e.g. Negative, Positive and Total)
- Configurable connection line
- “Set as Total” possible in design time
Ad-hoc Currency Conversion

- New API for opening currency conversion dialog
- Conversion based on target currency and conversion type defined in BW backend
- Can be added as custom entry in context menu
Compact Display Hierarchy (Virtual hierarchy of stacked dimensions)

- Standard entry within context menu
- Available in common and Fiori library
- Displays a virtual hierarchy of dimensions
Filter Bar

- New component in Fiori library
- End user can select dimensions filters to show and set filter value
- Toggle button to show or hide filter bar
- Defining „On Toggle“ Event via API
Other New Components in Fiori Library

**Link**
- Component for http link
- Target web address is automatically opened in another window

**Text Area**
- Enables user to enter multi-line texts

**Progress Indicator**
- Represents percentage value

**Segmented Button**
- Shows a button group in segmented way

**Switch**
- Has on/off, blank and accept/reject mode
SAP BusinessObjects Design Studio 1.6 SP2
Design Experience Improvements

Compact Palette View
• New View for designer
• All components are displayed as icons

Dynamic Calculation in Initial View Editor
• Available now in initial view editor if Data Source is BW
• Add dynamic calculations of key figures via context menu
Agenda

Overview

Design Studio 1.6SP2 Update

Roadmap
| Discovery & Analysis | Lumira
Explorer
Analysis for OLAP |
|---------------------|---------------------|
| Dashboards & Applications | Design Studio
Dashboards
BEx Web |
| Office Integration | Analysis for Microsoft Office
EPM Add-in
Live Office
BEx Analyzer |
| Reporting | Crystal Reports
Web Intelligence
Desktop Intelligence |

* One Server Add-On for SAP BusinessObjects

**component names not final
SAP Lumira 2.x
SAP Lumira & SAP BusinessObjects Design Studio merge into ONE product with TWO user interfaces

Designer

Discovery

Personalize Designer applications

Extend SAP Discover stories

Common Technology

This is the current state of planning and may be changed by SAP at any time.
SAP BusinessObjects Lumira 2.x

Deployment

Note: SAP BusinessObjects Lumira 2.x consists of following
Discovery Client, Designer Client, Lumira Server for BI Platform and Lumira Server for Teams
SAP BusinessObjects Lumira 2.x
High-Level Architecture (Layers)
SAP BusinessObjects Lumira
Direction and Approach

SAP BusinessObjects Lumira 2.x plans to combine Lumira & Design Studio into one product:

Deliver both clients on common technology stack
- Combine strength of both the clients
- Enable seamless inter-operability between the clients
- Deliver a revamped user experience
- One product for data discovery and application design

Respect existing customer investment
- Provide conversion from SAP Lumira 1.x and SAP BusinessObjects Design Studio 1.x documents and applications respectively
- Provide compatibility with 1.x SDK extensions of both SAP BusinessObjects Lumira and SAP BusinessObjects Design Studio respectively
- SAP Lumira 1.31 and SAP BusinessObjects Design Studio 1.6 remain in regular maintenance until end of 2017
- Existing licenses can be used/converted

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Design Studio Application Conversion Path

- **Design Studio 1.6**
  - **System Upgrade**

- **Lumira 2.0**
  - **Content Conversion**

  - **Existing Application is running in 1.6 format**
    - **Edit**
    - Application is saved in 1.6 format
  
  - Do you want to use the 2.0 features? Do we want to have interoperability scenario with Discovery client? Then migrate the existing applications to new format

  - **Content Conversion**

    - Create new application in new format, can interact with Lumira Discovery client

After conversion, you should expect some efforts for manual adjustment, e.g.
- the stylesheets,
- some edge cases in charts,
- ….
SAP BusinessObjects Lumira
Major Product Updates for Design Studio Customers

Upgrade and Content Conversion

• The technical upgrade to Lumira 2.0 is independent from conversion of existing Design Studio 1.x applications

• All existing Design Studio 1.6 applications are expected to run just like in Design Studio 1.6, without any change for end-users, unless you deliberately decide to convert an application to the new 2.0 format to make use of new 2.0 features. Applications can be converted individually and at any point after the technical upgrade.

• New 2.0 applications will be based on InfoCharts and SAPUI5.m libraries only, older versions of respective libraries are kept in the product for backwards compatibility reasons (see above), but cannot be used in new 2.0 applications. If you want to use new 2.0 features in an existing 1.6 application, you need to convert the application. After conversion, you should expect some effort for manual adjustment, e.g. the stylesheets, some edge cases in charts etc

Deprecated Options. Lumira 2.0 will not provide the following options any longer:

• NetWeaver and native HANA deployments of Design Studio. Following the platform strategy, we will support only the deployment on BI Platform going forward.

• JDBC/SQL-based HANA connector. Following the HANA connection strategy, we will support only the HTTP/INA-based HANA connector

• 32-bit client

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SAP BusinessObjects Lumira

Benefit

Modern user experience for data discovery
- One document model, Contextual actions, Fiori-style look and feel

Combined strengths of Lumira and Studio
- BW online, HANA online, Acquired Data, Extend, Personalize

Reduced TCO with one server add-on
- Deployment, Upgrade, Monitor, Manage

Integrates seamlessly with SAP Technology
- SAP data source, BI Platform and Fiori Launchpad

Invest your time and effort on only one product
- Reuse, Content, Extensions
Announcing the Roadmap to Converge Lumira and Design Studio

Lumira 2.x

SAP BusinessObjects Lumira
Discovery
Designer

Roadmap Plans

✓ Single solution for both data discovery and enterprise dashboard use cases.
✓ 2 desktop clients optimized for different user personas
✓ Open Discovery files with Designer and vice versa.
✓ One server side add-on.
✓ Designer gains offline connectivity.
✓ Discovery gains BW online connectivity.
✓ Combine the visualize and compose room into a single canvas similar to BusinessObjects Cloud.
✓ No change to license entitlements

Timing
RampUp (Early Adopter Care) in Q4 2016
GA Q1 2017
# SAP Lumira
Product road map overview - key themes and capabilities

## Today

<table>
<thead>
<tr>
<th>SAP Lumira 1.30 and 1.31</th>
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<tbody>
<tr>
<td>- Additional data source support: SAP S/4HANA</td>
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<tr>
<td>- Enhancements to SAP BW data access</td>
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<tr>
<td>- Extended support for analysis on SAP HANA</td>
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<tr>
<td>- User defined color palettes</td>
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<tr>
<td>- Offline consumption of stories on Mobile BI</td>
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<tr>
<td>- Extended support for scheduling</td>
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<tr>
<td>- Enhanced desktop and data source SSO support</td>
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<td>- Enhanced OpenDocument support</td>
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<td>- Extended support for platforms</td>
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<td>- Spreadsheet improvements</td>
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<td>- Ad-hoc currency conversion</td>
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<td>- Build virtual hierarchy of stacked dimensions</td>
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<td>- New SAP Fiori components</td>
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<td>- Info chart enhancements</td>
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<tr>
<td>- Designer: Simple calculations, UX enhancements (Resizable, moveable dialogs)</td>
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<tr>
<td>- Support of cascading filters for UNX and CSV data sources</td>
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## Planned Innovations

### Agility & insight for analysts
- Modernized user experience
- Improved Filter and Input Controls
- Simplified visualization experience
- Improved SAP HANA online analysis
- Support for SAP BW online analysis
- Export to PDF enhancements

### Trust and scale
- Studio applications from acquired data in SAP Lumira
- Extend SAP Lumira stories with Studio functionalities
- Personalize Studio applications with SAP Lumira
- Contextual export to SAP BusinessObjects Analysis, edition for Microsoft Office
- Schedule Studio applications based on acquired data
- Extended support for Enterprise deployment

### Application design
- Additional SAP Fiori components
- Componentization and reusable custom components
- Robust bookmarks, LCM of bookmarks and folders

## Future Direction

### Agility & insight for analysts
- Data acquisition and manipulation on browser
- GUI for Freehand SQL connections
- Managed connection support for Freehand SQL
- Simplified and extended analysis features (Filter on measure, out of context calculations etc..)
- Enhanced story building experience with Templates
- Improved Mobile BI Offline experience
- Collaborate with commentary and annotation
- Variants support for personalization

### Trust and scale
- Studio applications from acquired data in SAP Lumira
- Extend SAP Lumira stories with Studio functionalities
- Personalize Studio applications with SAP Lumira
- Contextual export to SAP BusinessObjects Analysis, edition for Microsoft Office
- Schedule Studio applications based on acquired data
- Extended support for Enterprise deployment

### Application design
- Improved components: scorecard, crosstab, spreadsheet and others
- Improved conditional formatting
- Continuous improvements

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User-defined components

- Designers can create their own components without low-level JavaScript programming, similar to how they develop an application (layouting by drag & drop of standard components, logic definition by data binding and scripting).
- Usable like any other standard component: properties, methods, events (interface).
- Re-usable across applications, stored independent from the application on the BI platform.
- Based on a clean interface concept.
- Can be used to define global components like header, footer, toolbar, global script pool. Can also be used to decompose complex applications into smaller, better manageable parts.
Reworked Bookmark Concept

- Designer configures what is captured in a bookmark (e.g. selection of data sources, global script variables, components)
- Increasing robustness of bookmarks against application UI changes
- Bookmark configuration as a technical component in design time
- Promotion Management support of bookmarks and folders