SAP BusinessObjects Design Studio and SAP BusinessObjects Dashboards: The 2015 Roadmap to Current and Planned Functionality

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SAP
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Analytics Solutions from SAP

- Cloud
- Mobile
- Big Data
- Collaboration
- Engage
- Visualize
- Predict
- Agile Visualization
- Advanced Analytics
- Enterprise Business Intelligence
- Real-Time Platform
SAP Analytics Solutions
One Suite for All Insight

Build Engaging Experiences
- Deliver engaging information to users where they need it
- Track key performance indicators and summary data
- Build custom experiences – users get what they need quickly

- Discover areas to optimize your business
- Adapt data to business needs
- Tell your story with beautiful visualizations

Distribute Information
- Securely distribute information across your organization
- Answer related questions by interacting with pre-defined reports
- Build printable reports for operational efficiency

Agile Visualization
Enterprise BI
- Dashboards and Apps
- Reporting
SAP Analytics Solutions
Tuned for Key Use Cases

Professionally Authored
• Where there is a significant complexity to the BI content
• Standardized formats, sophisticated design, complex data mash-ups, or high levels of governance
• Separates the creation environment from the consumption environment

Self-Service
• Business user, analyst, or executive answering their own questions
• Mobile or web-based self-service
• Combines the creation and consumption environment into a single seamless experience
Dashboards and Apps
Build Engaging Experiences

Build engaging, visual dashboards

- Powerful environment to build interactive and visually appealing analytics
- Rich set of controls: buttons, list boxes, dropdowns, cross-tabs, charts …
- Use custom code to extend and build workflows

Portfolio

- SAP BusinessObjects Design Studio
- SAP BusinessObjects Dashboards (formerly SAP BusinessObjects Xcelsius®)
Agenda

Design Studio Introduction and Use Cases
Demonstrations
What's New in SAP BusinessObjects Design Studio 1.5
Interoperability
Enabling Business Value with Partners
For BEx Customers
For Classic SAP BusinessObjects Customers
Roadmap
Wrap-up
Design Studio Introduction and Use Cases
SAP BusinessObjects Design Studio
For Building Analytic Applications on Universes, BW, and HANA

Build analytic applications, professionally authored dashboards, planning applications, and self-service composable dashboards

Overview

• Supports Universe data sources, BW, and HANA
• Empower end users to compose their own dashboards
• Create input-enabled planning applications against BW-IP or the BPC Embedded model
• Native support for virtually all BW metadata types
• Deploy Design Studio dashboards to all 3 platforms: BI Platform, BW, and HANA
SAP BusinessObjects Design Studio and SAP Lumira

SAP BusinessObjects Design Studio

Applications and Templates from Design Professionals for End Users

SAP Lumira

Ad Hoc Self-Service for Analysts and Decision Makers

Common Platform, Visualizations, and Interoperability
Design Studio 1.5 New Use Cases
Implemented with Out-of-the-Box Templates

Self-Service Dashboard Composition
Enable business users to compose their own dashboards from pre-existing components

Self-Service Data Discovery
Explorer-inspired UX for short interactions by casual users with little training

Self-Service BW Visualization and Composition
Lumira-like visualization and story composition for BW data
Demonstrations

Data Discovery

SAP BW Visualization and Composition
What’s New in SAP BusinessObjects Design Studio 1.5
SAP BusinessObjects Design Studio
What’s New in 1.5

New and enhanced standard templates
- Self-service composition template
- Self-service data discovery template
- BW template with Lumira-like Vis and Compose room
- Analysis template – browse data sources, bookmarking, printing

Export data to SAP Lumira

Geographic maps

Performance: query parallelization, unmerge variables

Universe support: all relational databases

Commentary and attribute planning based on BW-IP

New and enhanced components
- Horizontal Filter Bar
- Chart Picker
- PDF export
- Navigation Panel Enhancements
- Context Menu Enhancements
- Cross-tab – multi-selection

Offline click-through applications

BI Platform integration
- Translation Manager Support
- Bookmark administration on BI Platform
New Online Composition Template

Online Composition Template

- In 1.5, we have delivered an out-of-the-box Online Composition template for our Smart Objects
- Allows customer to see straight away how this new self-service concept can work with minimal development needed
- Works in conjunction with our improved Generic Analysis App which, once both are deployed on BIP, will work without any coding needed
- Can be further enhanced by designers to meet customer needs
New Self-Service Data Discovery Template

**Similar to Explorer**
Supports BW and HANA data
Faceted navigation
 Doesn't include search functionality

**Extensible**
Can be modified for your use case

**Empowering**
End user selects the charts, measures, and dimensions to display
New BW Visualization and Composition Template

Analyze data and gain insight with visualizations

- Filter data on the dimensions
- Full pivot table experience
- Visualize data with BW hierarchies
- Use standard context menu
- Use report-report interface/OpenDoc
- Create different visualizations for story composition
- Visualize several data sources and display them in one story

Compose a story to share with others

- Save to the BI Platform with document-level security
- Share a PDF export of a story
- Share a URL link to the story
Enhanced Analysis Template

Ad hoc Analysis Template
Includes:
- Menu
- Filter Area
- Navigation area
- Setting area for chart and table
- Data Area, including table view, chart view, and table/chart view
- Action area

New and Modified Components
- Data Connection
- Navigation Panel
- Horizontal Filter Bar
- Chart Type Picker
- Enhanced Context Menu
- Enhanced bookmark functionality
Geo Map

- Uses OpenStreetMap by default
- Ability to change base map at runtime
- Any base map provider that has a web URL is supported
- Up to 10 layers on the map are supported
- Different layers can be assigned to different data sources
- Drilldown possible with onSelect() scripting method
- Data can be represented as shape, point, and bubble chart
- For type shape you can select color (start color and end color) to represent measures
- Limitations with release 1.5 SP0
  - Not able to be exported as PDF/Printing
  - Not able to be saved as smart object (portable fragment bookmark)
  - Not able to be deployed on the HANA Platform
Performance Improvements
Query Parallelization

Query Parallelization

- All data source types supported
- Option to assign the data source to processing groups in design time
- Separate back-end session for each processing group
- Each scenario to be individually assigned based on your requirements

Side effects you need to take under consideration:
- Potentially more work load on the back-end server; please refer to sizing guide
- Parallel query execution does not use OLAP cache
- Variable unmerge will be applied for parallel execution
- Planning scenario is not supported
Performance Improvements
Unmerge Variable

Unmerge Variable

- Variables are bound to each data source
- On the application level, you can decide whether the variable should be merged or not
- At runtime, you can select different variable value for different data source

Side effect you need to take under consideration:

- If variables should be executed sequentially, you need to consider whether unmerging variable makes sense
Commentary Solution based on BW-IP

- Prerequisite: BW 7.4 SP8
- Commentary texts need to be defined as the type Text KPI in BW system
- Planning queries need to be modeled in the back end
- Using Design Studio planning capability, you can add commentaries in the cross-tab

Limitations for release 1.5

- Not able to break the text into multiple lines automatically
- Not able to add line break manually by end users
Attribute Planning Based on BW-IP

Attribute Planning based on BW-IP

- Prerequisite: BW 7.4 SP8
- Attributes need to be defined as the type Text KPI in BW system
- Master data of attributes resides within BW system
- Using Design Studio planning capability you can add attributes in the crosstab

Limitations for release 1.5

- Not able to sort attributes
- No value help while entering attributes
New Horizontal Filter Bar Component

Horizontal filter option
No scripting effort is required
At runtime, user can easily select filters and filter values
At design time, designer can configure whether key figures should be included in filter line
New Chart Picker Component

Chart Type Picker
- Enable user at runtime to choose different chart types
- Designer can add additional chart types to this component in design time
PDF Export

Exporting to PDF

• PDF as technical object needs to be added in the design time
• Three Exporting/Printing options controlled by APIs:
  – Export with WYSIWYG screen
  – Export an application to PDF as report style
  – Export a panel to PDF, WYSIWYG
• Report style option supports metadata, cross-tab, chart, and SDK components
• Conditional formatting of the cross-tab is exported
• Export configuration option:
  – Page size
  – Page Orientation
  – Header and Footer with Text
  – Images (e.g., Logo) can be defined in design time
Enhanced Navigation Panel

Navigation Panel

- Separate component only for navigation purpose via drag and drop
- Measures can be shown separately
- Can be used as a dimension list
- The sequence of displaying dimensions can be changed in design time
- At runtime, user can find the dimension or key figure via “Search”
Enhanced Context Menu

Enhanced context menu
- “Undo previous step” as the new entry
- Add custom entry to context menu via property sheet (e.g., jump to Analysis Office Workbook, Lumira storyboard, etc.)
Enhanced Cross-Tab

Multiple selection on cross-tab
- On the property sheet, you can set the selection mode to “Multi”
- Use API “… getSelectedValues()” to transfer the filter values to other components

Header scroll and horizontal header resizing
- Setting in Property Sheet of the cross-tab
- Horizontal header scroll enables scrolling dimensions in cross-tab header area
- Horizontal header resizing enables the resizing between dimension area (header) and key figure area
Offline Click-Through Applications

Start Recording with Ctrl + Alt + R

You can reset, stop, pause, and download the recording

Downloaded recording is a zip file containing HTML5 pages

“index.html” starts the application on desktop (mobile devices are not supported)
Interoperability
Export Cross-Tab to Lumira

Enable analysts to acquire corporate data
Use Lumira Desktop to mash-up with personal data

Export to Lumira
Data in the cross-tab are exported as LUMS file
LUMS file can be opened in SAP Lumira for further analysis
Analysis and Design Studio
Creating Next-Generation BI Apps

Transform insights into broadly consumable analytic applications

Analysis Office or OLAP
Design Studio
Design Studio App
Enabling Business Value with Partners
Software Development Kit

Software Development Kit (SDK) for customers and partners

- Using SDK from SAP to develop own components for Design Studio
- Custom component library is an Eclipse plug-in, but no Java skills required
- Convenient deployment though “install new software” in Design Studio
- Contain Description XML file, JavaScript files, Images, and CSS files
- Deployment possible with BI Platform in release 1.2

Example: HICHERT Charts, Partner: Graphomate

Example: Gauge
HICHERT®IBCS Certification

HICHERT®IBCS CERTIFIED CHARTS seal of approval from BARC

SAP BusinessObjects Design Studio with Graphomate charts add-on
Graphomate Graph Extensions
Complies with International Business Communication Standards

- Implements graphic design best practices
- Ensures understanding and adoption
- Reduces cost of content creation

Partner: Graphomate
Graphomate Graph Extensions

The profit average of our 14 locations went up from mEUR 63 to mEUR 83 mainly because of extreme Berlin growth since 2006.

Beta Corp. 14 locations of Central Europe

Net profit in mEUR


Consistent standards drive adoption
CubeServ Graph Extensions
Better Visualization with Geo Reporting

Show markers and HTML popups based on query data
Make query selections based on position and map zoom
Display route information between locations or from current position
Visual BI Graph Extensions

Selectors

- Period Selector
- Grid Box Selector with Alerts
Visual BI Graph Extensions
KPI Tiles and Plot Bands
For BEx Customers
SAP BusinessObjects Analysis and Design Studio
The Premium Alternative to BEx

Analytical Applications

Design Studio
- Premium alternative to BEx Web App Designer
- Design Studio for power users to create purpose-built OLAP analysis and planning apps
- Mobile support
- Customer- and SAP-delivered content
- Supporting SAP BW and SAP HANA sources

Ad Hoc OLAP

Analysis, Edition for OLAP
- Dedicated ad hoc OLAP client for business users to analyze OLAP data and share it with others
- Seamless interoperability between designer and ad hoc client
- Supporting SAP BW and SAP HANA sources + third-party OLAP

Analysis, Edition for Microsoft Office
- IT/Developers, Data Analysts, Business Users
- Excel-based OLAP analysis
- Excel-based BI applications
- Live PowerPoint presentations
- Supporting SAP BW and SAP HANA sources
Customers with Large BEx WAD Deployments

Recommendation
As new projects come up, use Design Studio as long as it meets your requirements
Existing BEx WAD templates can be converted to Design Studio on a case by case basis
No need to engage in mass conversions of existing content to Design Studio 1.4
DSAG Recommendation

With the two newly developed analytics solutions, SAP BusinessObjects Analysis, edition for MS Office and SAP BusinessObjects Design Studio, SAP BW customers now have solutions to help them replace the SAP BEx tools with much more powerful client applications.

SAP BusinessObjects Analysis is a suitable replacement for SAP BEx Analyzer, and even enables migration of workbooks.

SAP BusinessObjects Design Studio can replace SAP BEx Web Application Designer in selected projects such as many dashboarding scenarios, web-based reporting and analysis, as well as mobile BI.

Jörg Steinhorst, Head of BI Commission, DSAG
For Classic SAP BusinessObjects Customers
Customers with Large Universe Deployments

Design Studio 1.2 added support for UNX Universes

Universe data access currently limited to 5,000 rows
Use pre-aggregated data in the dashboard and link out to other reports with larger data volumes

Limit is planned to be increased in 1.6

Recommendation
As new projects come up, use Design Studio instead of Dashboards as long as it meets your requirements
Existing Dashboards (Xcelsius) can be converted to Design Studio on a case-by-case basis
No need to engage in mass conversions of existing content to Design Studio 1.5
Roadmap
## SAP BusinessObjects Design Studio

### Product Roadmap Overview – Key Themes and Capabilities

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<th>Today</th>
<th>Planned Innovations</th>
<th>Future Direction</th>
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#### End User
- Performance: query parallelization, unmerge variables
- Geo maps (baseline)
- Offline click-through apps
- Export to PDF/printing (baseline)
- Standard apps for data exploration and self-service scenarios
- Cross-tab: multi-selection

#### Analyst
- Export data to Lumira, desktop edition
- Standard analysis app – browse data sources, bookmarking, printing
- Navigation panel, horizontal filter, chart type picker

#### Designer, Developer, Admin
- Data-bound component properties
- Enhanced BIP integration
- Enhanced data connectivity (HANA and UNX)
- Enhanced SDK interface
- Various continuous improvements

#### End User
- Geo map enhancements
- Chart enhancements
- New visualization components
- Export to PDF enhancements
- Enhanced client interoperability
- Improved mobile experience
- Offline enhancements

#### Analyst
- Cross-tab: drag and drop
- Calculations at runtime

#### Designer, Developer, Admin
- Enhanced context menu customizing
- Enhanced Universe (UNX) connectivity
- Enhanced standard apps
- Continuous improvements

#### End User
- Scheduling and broadcasting
- Annotations/comments
- Offline enhancements
- Formatted table/scorecard
- Further mobile improvements

#### Analyst
- Variant support

#### Designer, Developer, Admin
- Component composition and re-use
- Local calculations and projection
- Improved design experience
- Enhanced Universe (UNX) support
- Extending administration capabilities (e.g., LCM)
- Improved product standards compliance (e.g., right-to-left, accessibility, designer translation)

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

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SAP BusinessObjects Design Studio
Planned Innovations

**Cross-tab: Drag and Drop**
- Drag and drop dimensions and measures into cross-tab (e.g., from Filter and Navigation Panels), drag and drop inside cross-tab

**Offline Enhancements**
- Mobile consumption of offline click-through stories

**Chart Enhancements**
- New chart types

**Geo map Enhancements**
- New chart types, default base maps

**Export to PDF enhancements**
- Include geo maps, configuration options

**New Visualization Components**
- Enhanced set of standard components to visualize and/or navigate data

**Calculations at Runtime**
- Calculations on top of enterprise KPIs created by end users

**Enhanced Context Menu Customizing**
- Hide standard entries, rename entries

**Improved Mobile Experience**
- Mobile-optimized component library

**Enhanced Client Interoperability**
- Export to Analysis Office

**Enhanced BW Online Self-Service for Lumira Server**
- E.g., add texts, improved chart configuration

**Enhanced Universe (UNX) Connectivity**
- Extend data volume limit from 5K to 20K rows

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**PLANNED INNOVATIONS**
This is the current state of planning and may be changed by SAP at any time
Related Roadmaps

Readers may also be interested in the following related roadmaps:

Related product road maps available on Service Marketplace: (requires login credentials)
- SAP BusinessObjects Analysis, edition for OLAP
- SAP BusinessObjects Analysis, edition for Microsoft Office
- SAP BusinessObjects Dashboards

Other business analytics product roadmaps can be found on the Analytics tab of the Roadmaps page on Service Marketplace (requires login credentials)
Wrap-Up
Key Links for More Information
For Customers and Partners

Key links

- Roadmaps on SAP Service Marketplace*  
  http://service.sap.com/roadmap

- SAP Community Network  
  www.sdn.sap.com/

- Design Studio Release Notes*  
  https://websmp130.sap-ag.de/sap(bD1lbiZjPTAwMQ==)/bc/bsp/spn/sapnotes/index2.htm?numm=1948049

- PAM information*  
  https://websmp230.sap-ag.de/sap(bD1kZSZjPTAwMQ==)/support/pam/pam.html?v=i&smpsrv=https%3A%2F%2Fwebsmp207.sap-ag.de#pvnr=67838200100900007316&pt=g%7Cd&ts=0

- Documentation  
  http://help.sap.com/boad

- Sizing Information*  
  https://websmp130.sap-ag.de/sap(bD1lbiZjPTAwMQ==)/bc/bsp/spn/sapnotes/index2.htm?numm=1177020

- Performance Tips and Tricks  

* Requires login credentials to the SAP Service Marketplace
Key Links for More Information
For Customers and Partners (cont.)

Where to go to provide product feedback and ideas

- SAP Idea Place  
  https://ideas.sap.com/ct/s.bix?c=6055F3C4-E8DA-454F-9C49-85D5A5070BCE

- Influence programs*  
  http://service.sap.com/influence

- SAP User Groups  
  https://websmp209.sap-ag.de/public/usergroups/list

* Requires login credentials to the SAP Service Marketplace
Where to Find More Information

Learn Design Studio

Dashboards Statement of Direction

BI Client Convergence
7 Key Points to Take Home

1. Design Studio 1.5 delivers significant out-of-the-box functionality with prebuilt templates
2. New use cases include self-service discovery, BW visualization, and online composition
3. Partner charting extensions can deliver significant value
4. Design Studio supports all three platforms: BI Platform, SAP NetWeaver®, HANA
5. Design Studio supports UNX Universes, as well as BEx Queries, BW Cubes, and HANA data
6. Analysis Office and Analysis OLAP can automatically create Design Studio applications
7. Design Studio is recommended by the German SAP User Group (DSAG)
Thank You

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