The Future of Business Intelligence at SAP Business Objects

May 2013
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Current solutions refer to software already released from SAP. At this point this refers to the cumulative capabilities represented by:

- SAP BusinessObjects BI 4.0, feature pack 3 (and subsequent SP4 & SP5)
- SAP BusinessObjects Mobile BI 4.3 (IOS); 4.1 (Android)
- SAP BusinessObjects Analysis for Office 1.3
- SAP BusinessObjects Design Studio 1.0
- SAP Visual Intelligence 1.0.9

Planned innovations normally refers to the next major release of each of these components that are due for release within 6-9 months as of May 2013, but for this presentation it is focused on what is being released in Q2 2013 and represents the core of today’s session.

Future innovations refer to intentions for releases beyond the next 6-9 months from November 2012 and no specific timeframe is available.

For more detailed information and features in each area, refer to:

- What’s New in 4.0 (Includes what’s new in SP1, SP2, FP3, SP4 and SP5)
- Product Road Map documents
SAP investment focus for business intelligence
SAP’s strategic focus on business intelligence

Core
- Core for innovation
- Complete BI suite
- Continued leadership

Creative
- Use by IT and departments
- Fast time to value
- Connection to the enterprise

Mobile
- First experience for BI
- Content to point of impact
- Expansion to untapped users

Extreme
- Big data
- Real time
- Predictive

Social
- Ability to capture the decision
- Information in context
- Ability to leverage the network

Innovation without disruption
SAP BusinessObjects Business Intelligence
One unified and complete BI Suite addressing the full spectrum of BI

Self-service

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

Dashboards and apps

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

Reporting

Share information
- Securely distribute information across your organization
- Give users the ability to ask and answer their own questions
- Build printable reports for operational efficiency
Self-service

Agility for business analysts and business users
- Discover trends, outliers, and areas of interest in your business
- Adapt to business scenarios by combining, manipulating, and enriching data
- Tell your story with self-service visualizations and analytics
- Forecast and predict future outcomes

Portfolio
- Visual Intelligence
- Explorer
- Analysis
- Predictive Analysis
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, crosstabs, charts, …
- Use custom code to extend and build workflows

Portfolio

- Design Studio
- Dashboards (a.k.a., Xcelsius®)
Reporting
Share information

- Quickly build formatted reports on any data source
- Securely distribute reports both internally and externally
- Minimize IT support costs by empowering end users to easily create and modify their own reports
- Enhance custom applications with embedded reports

Portfolio
- Web Intelligence
- Crystal Reports

High productivity design for report designers
SAP BusinessObjects BI 4: technology platform
Current solution overview by functional area
SAP road map for the SAP BusinessObjects BI solutions

Overview

Solution today

Planned innovations

Future direction

Platform
Self-service
Dashboards and apps
Reporting
Mobility
Big data
BI for SAP software
Collaboration

Platform
Self-service
Dashboards and apps
Reporting
Mobility
Big data
BI for SAP software
Collaboration

Core
Creative
Mobile
Extreme
Social
### Key needs

- Industry lowest “Total Cost of Ownership (TCO)”
- Expanded “Single Version of Truth” from SAP ERP to HADOOP
- Embed and extend BI into key business workflows
- Quickly find BI Documents
- Upload, explore and visualize your data using a hosted and complete BI solution

### Key innovations

<table>
<thead>
<tr>
<th>BI platform – TCO reductions</th>
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</thead>
<tbody>
<tr>
<td>• Hot backup and restore</td>
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<tr>
<td>• Reduced TCO for multitenant installation</td>
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<tr>
<td>• Insight-to-action framework for SAP BW</td>
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<table>
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<tr>
<th>BI platform – semantic layer</th>
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<td>• Extended data sources: SAP ERP, Hadoop, Oracle EBS</td>
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<tr>
<td>• Enhanced and broader support of the SAP technology</td>
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<tr>
<td>• Multitenancy and OEM enablement</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>BI platform and clients – developer enabled</th>
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<tbody>
<tr>
<td>• Faster time to value with new web-enabled APIs for Crystal Reports and Explorer</td>
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<tr>
<td>• Improved automation and lower TCO for multi-tenant deployments</td>
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</table>

<table>
<thead>
<tr>
<th>BI platform – search</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Improved multi-lingual support</td>
</tr>
<tr>
<td>• Expanded support for content types</td>
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</table>

<table>
<thead>
<tr>
<th>BI Cloud – Cloud analytics</th>
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<tbody>
<tr>
<td>• Powered by SAP HANA</td>
</tr>
<tr>
<td>• Access your reports and data from web browsers and mobile devices</td>
</tr>
</tbody>
</table>

### Release

- **BI platform – TCO reductions**
  - SAP BusinessObjects Business Intelligence platform 4.0, feature pack 3

- **BI platform – semantic layer**
  - SAP BusinessObjects Business Intelligence platform 4.0, feature pack 3

- **BI platform and clients – developer enabled**
  - SAP BusinessObjects Business Intelligence platform 4.0, feature pack 3

- **BI platform – search**
  - SAP BusinessObjects Business Intelligence platform 4.0, feature pack 3

- **BI Cloud – Cloud analytics**
  - SAP BusinessObjects BI OnDemand

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**Solution today**
SAP BusinessObjects BI solutions – Core
BI platform – TCO reductions

SAP BusinessObjects Business Intelligence platform 4.0, feature pack 3

Scope

- **Hot backup and restore**
  - Back up repository database and files while system running
- Reduced TCO for multitenant installations
  - Tool to automate tenant provisioning
  - Delegated administration
- Insight-to-action framework for SAP BW
  - Report-to-Report Interface (RRI) support in SAP software

Key benefits

- Reduce required maintenance windows durations
- Reduced costs and overhead required in multitenant environments
- Invoke closed-loop business processes from BI to transactions

Solution today
SAP BusinessObjects BI solutions – Core
BI platform – semantic layer

SAP BusinessObjects Business Intelligence platform 4.0, feature pack 3

Scope

- Extended data sources: SAP ERP, Hadoop, Oracle EBS
- Enhanced and broader support of the SAP technology
- Multitenancy and OEM enablement

Key benefits

- Increased reach of data from SAP ERP to big data
- Increased use fine-tuning and multi-tenancy support with custom attributes and security software development kit (SDK)
- Better access to existing connectivity of SAP NetWeaver BW and SAP HANA
# SAP BusinessObjects BI solutions – Core
**BI platform and clients – developer enabled**

## Scope
- **Embed and extend your BI Suite integration with New APIs for:**
  - Crystal Reports for Enterprise: Generate compelling columnar reports in a few lines of code
  - Universe (UNX): Manage multi-tenant data security
  - Explorer: Embed pre-defined Eviews (visualization compilations), or link to pre-defined filters and facets
- **Custom solution branding with no coding**

## Key benefits
- **Faster time to value with new web-enabled APIs for Crystal Reports and Explorer**
- **Improved automation and lower TCO for Multi-tenant deployments**

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SAP BusinessObjects BI solutions – Core
BI platform – search

SAP BusinessObjects Business Intelligence platform 4.0, feature pack 3

Scope

- **Improved multilingual support**
- Additional content types enabled for search
  - SAP Crystal Reports for Enterprise
  - BI workspaces
- Flexible Searches with multiple terms

Key benefits

- Single, consistent way of locating all BI documents
- Ability to deploy globally

Solution today
SAP BusinessObjects BI solutions – Core
BI Cloud – Cloud analytics

SAP BusinessObjects BI OnDemand

Scope

- Upload, explore and visualize your data using a hosted and complete business intelligence solution
- Combine data from multiple sources including on-premise, SAP OnDemand apps and Salesforce.com
- Access your reports and data from web browsers and mobile devices
- Leverage SAP HANA in the cloud for large data volume, reporting speed and simplification of the entire data loading process.

Key benefits

- Empower data consumers with data at their fingertips
- Low Total Cost of Ownership (TCO) and quick Time to Value (TTV) through subscription pricing and a rapid deployment solution
- Elastic solution grows as your needs change

Solution today
## SAP BusinessObjects BI solutions – Core

Overview: Core innovation; complete BI suite; continued leadership

<table>
<thead>
<tr>
<th>Key needs</th>
<th>Key innovations</th>
<th>Release</th>
</tr>
</thead>
</table>
| • End user intuitive self-service information | **Data discovery with SAP BusinessObjects Explorer – self-service solution for richer insight**  
  • Ability of casual users to create their own compositions of visualizations (Eviews) in SAP BusinessObjects Explorer  
  • Support for BW on HANA  
  • Time and geography awareness | • SAP BusinessObjects Explorer |
| • Access, slice, and pivot cubes in SAP NetWeaver BW and SAP HANA | **SAP BusinessObjects Analysis, edition for OLAP for analysis over the Web**  
  • Support analytic and calculation views in SAP HANA  
  • Enhanced connectivity to SAP NetWeaver BW | • SAP BusinessObjects Analysis, 4.0, edition for OLAP, feature pack 3 |

**Available now**
SAP BusinessObjects BI solutions – Core
Data discovery with SAP BusinessObjects Explorer – self-service solution for richer insight

SAP BusinessObjects Explorer

Scope

- Ability of casual users to create their own compositions of visualizations (Eviews) in SAP BusinessObjects Explorer
- Support for BW on HANA
- Time and geography awareness
- Native mobile support for new features

Key benefits

- Create user-defined dashboards more easily without any IT dependency
- Enable location-based insight into your business
- Discover critical answers over the Web or on device

Solution today
SAP BusinessObjects BI solutions – Core
SAP BusinessObjects Analysis, edition for OLAP for analysis over the Web

SAP BusinessObjects Analysis, 4.0, edition for OLAP, feature pack 3

Scope

- Support analytic and calculation views in SAP HANA -- includes support for hierarchies and prompts
- Enhanced connectivity to SAP Netweaver BW -- Support for display attributes and compact axis
- Use a focused analysis feature to connect grid and chart while navigating

Key benefits

- Access, slide, and pivot cubes in SAP NetWeaver BW and SAP HANA
- Access non-SAP data in Microsoft Analysis Services
- Share analysis workspaces with SAP Crystal Reports and SAP BusinessObjects Web Intelligence

Solution today
## Key needs
- Beautifully delivery of key information to users via interactive dashboards
- Allow users to interact with data easily in highly customizable interfaces

## Key innovations
- **SAP BusinessObjects Dashboards – for dashboards and visualizations**
  - Take your dashboards anywhere with support for mobile dashboards on iPad
  - Built-in query panel and connectivity to Universes and SAP Netweaver BW
  - Link to web applications, transactions in ABAP, and other BI content
- **SAP BusinessObjects Design Studio – building BI Apps for the Web and Mobile**
  - Build applications from data stored in SAP NetWeaver BW or SAP HANA
  - Publish applications easily to the web or mobile
  - Develop interactive experiences on top of large data sets

## Release
- SAP BusinessObjects Dashboards 4.0, support package 5
- SAP BusinessObjects Design Studio 1.0

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### Solution today
SAP BusinessObjects BI solutions – Core
SAP BusinessObjects Dashboards – for dashboards and visualizations

SAP BusinessObjects Dashboards 4.0, support package 5

**Scope**

- **Mobilize your dashboards**
  - Take your dashboards anywhere with support for mobile dashboards on iPad
- **Richer data access:**
  - Built-in query panel and connectivity to Universes and SAP Netweaver BW
- **Better, action-oriented insight:**
  - Link to web applications, transactions in ABAP, and other BI content

**Key benefits**

- Monitor key performance indicators
- Perform what-if scenario analysis
- Consume dashboards over the Web or iPad
- Use consistent data access with other BI solutions
- Take action on the insights in the dashboard

Solution today
## SAP BusinessObjects BI solutions – Core

SAP BusinessObjects Design Studio – building BI Apps for the Web and Mobile

### SAP BusinessObjects Design Studio 1.0

<table>
<thead>
<tr>
<th>Scope</th>
<th>Key benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Build applications from data stored in SAP NetWeaver BW or SAP HANA -- Direct native connectivity to both data sources</td>
<td>• Develop analytic applications for use on the Web or mobile devices</td>
</tr>
<tr>
<td>• Publish applications easily to the web or mobile</td>
<td>• Allow users to interact with data easily in highly customizable interfaces</td>
</tr>
<tr>
<td>-- Run applications in your browser with no plugins required, or on your iPad</td>
<td>• Fully leverage your existing investments in SAP NetWeaver BW and SAP HANA</td>
</tr>
<tr>
<td>• Create interactive experiences on top of large data sets</td>
<td></td>
</tr>
<tr>
<td>-- Optimized for large data sets with full support for features such as hierarchies.</td>
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</tbody>
</table>

### Solution today
## SAP BusinessObjects BI solutions – Core
### Overview: Core innovation; complete BI suite; continued leadership

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<th>Key needs</th>
<th>Key innovations</th>
<th>Release</th>
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</table>
| • Complete reporting, both delivered and ad-hoc, for employees on any available information. | **SAP BusinessObjects Web Intelligence for interactive reporting**  
• Better hierarchy support and additional enhancements for SAP NetWeaver BW consumption  
• Enhanced control on the charts & report layout  
• Richer data access with the support of Hadoop Hive & Essbase via UNX | • SAP BusinessObjects Web Intelligence 4.0, Service Pack 4 (incl. feature pack 3) |
| • Pixel perfect and high volume reporting on any available information     | **SAP Crystal Reports for production reporting**  
• Connect to data directly  
• Access SAP ERP R/3 4.6C and later via a universe  
• New JavaScript and RESTful Web services API | • SAP Crystal Reports 4.0, feature pack 3 |
SAP BusinessObjects BI solutions – Core
SAP BusinessObjects Web Intelligence for interactive reporting

SAP BusinessObjects Web Intelligence 4.0, Service Pack 4 (incl. feature pack 3)

Scope

- Better hierarchy support and additional enhancements for SAP NetWeaver BW consumption
- Enhanced control on the charts & report layout via customizable document style (Cascading Style Sheet (CSS) file in SAP BusinessObjects Web Intelligence)
- Richer data access with the support of Hadoop Hive & Essbase via UNX

Key benefits

- Productivity improved when creating ad-hoc reports
- Universe semantic layer makes it easy for business users to access any type of data.
- Ability to combine corporate data (OLAP & Relational) with local spreadsheets

Solution today
SAP BusinessObjects BI solutions – Core
SAP Crystal Reports for production reporting

SAP Crystal Reports 4.0, feature pack 3

Scope

- Connect to data directly
- Access SAP ERP R/3 4.6C and later via a universe
- New JavaScript and RESTful Web services API

Key benefits

- Convert data into formatted, easy-to-read reports
- Schedule, secure, and share in any format.
- Add formatted reporting to custom applications with modern Web APIs and standards

Solution today
## SAP BusinessObjects BI solutions – Creative

Overview: Use by IT and departments; fast time to value; connection to the enterprise

<table>
<thead>
<tr>
<th>Key needs</th>
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</table>
| - Simple and intuitive transforming and visualizing data from corporate and personal data sources | **Data discovery with SAP Visual Intelligence – empowering the business analyst**  
  - Combine corporate data with personal data easily, manipulate & cleanse the data flexibly  
  - Connect and acquire data from data sources directly.  
  - Share the results with your colleagues or publish them into SAP Business Intelligence platform | - SAP Visual Intelligence |
| - Migrate from BEx Analyzer  
  - Simple drag and drop to slice, dice, and pivot cubes in SAP NetWeaver BW and SAP HANA | **SAP BusinessObjects Analysis – for analysis in Microsoft Office**  
  - Convert BEx Analyzer workbooks  
  - Enhanced HANA support | - SAP BusinessObjects Analysis 1.3, edition for Microsoft Office |
| - High performance database  
  - Fast calculation engine  
  - Immediate answer for simple and complex BI questions | **Taking advantage of SAP HANA – leveraging native SAP HANA capabilities for BI**  
  - Direct access to HANA in-Memory models  
  - Support for native HANA calculation engines  
  - Support of HANA embedded predictive capabilities | - SAP HANA |

### Solution today
SAP BusinessObjects BI solutions – Creative
SAP Visual Intelligence: Data discovery – empowering the business analyst

SAP Visual Intelligence

Scope

- Combine corporate data with personal data easily, manipulate & cleanse the data flexibly
- Connect and acquire data from data sources directly.
- Share the results with your colleagues or publish them into SAP Business Intelligence platform as Explorer Information spaces.

Key benefits

- Synthesize and transform data the way you want it
- Acquire data from corporate and personal data sources
- Simpler and easier to install and use
- Connect, access and visualize data without a single line of code
## SAP BusinessObjects BI solutions – Creative
### SAP BusinessObjects Analysis – for analysis in Microsoft Office

### SAP BusinessObjects Analysis 1.3, edition for Microsoft Office

### Scope

- **Convert BEx Analyzer workbooks**
  -- Open your existing BEx analyzer workbooks as Analysis Office documents
- **Enhanced HANA support**
  -- Full support for prompts and hierarchies
- **Support for BW Workspaces**
  -- Combine corporate data and personal data easily and securely

### Key benefits

- Modern and familiar Microsoft Office user experience
- Few clicks to fast business insight
- Simple drag and drop to slice, dice, and pivot cubes in SAP NetWeaver BW and SAP HANA
- Migrate from BEx Analyzer

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**Solution today**
# SAP BusinessObjects BI solutions – Creative

Taking advantage of SAP HANA – leveraging native SAP HANA capabilities for BI

## SAP HANA

### Scope

- Direct access to native HANA in-memory models from clients across the BI portfolio
- Native support for key HANA features such as calculation capabilities, hierarchy variables, and input parameters
- Native support for predictive capabilities within SAP Predictive Analytics

### Key benefits

- Immediate availability of in-real-time BI for data stored in SAP HANA
- High confidence in predictive analysis thanks to the availability of large quantities of data in in-memory optimized calculations
- Advanced visualization and deep data analysis at the speed of thought
- Business users can enrich information and publish to SAP HANA

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**Solution today**
## SAP BusinessObjects BI solutions – Mobile

Overview: Make better decisions everywhere; realize rapid time to value; extend the power of mobile analytics throughout and beyond your organization.

<table>
<thead>
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<tr>
<td>• Empower business users to make better decisions everywhere with instant access to key business insights</td>
<td><strong>SAP BusinessObjects Mobile – delivering insight into critical moments of engagement</strong>  &lt;br&gt;  • Most comprehensive mobile analytics solution within the world’s largest Business Intelligence eco system  &lt;br&gt;  • Ultra simple user experience for finding, interacting with and sharing information  &lt;br&gt;  • Support for wide selection of phones and tablets  &lt;br&gt;  • Integration with Sybase Unwired Platform and Afaria  &lt;br&gt;  • Annotate and collaborative around mobile content  &lt;br&gt;  • Direct to content via URL</td>
<td>• SAP BusinessObjects Mobile Analytics Suite 4.3 (IOS); 4.1 (Android)</td>
</tr>
<tr>
<td>• Rapid mobilize existing investments in SAP BusinessObjects Explorer and SAP Cloud Analytics</td>
<td><strong>SAP BusinessObjects Explorer Mobile – explore your business at the speed of thought</strong>  &lt;br&gt;  • Online and Offline Support for Exploration Views  &lt;br&gt;  • Ultra simple user experience for finding, interacting with and sharing information  &lt;br&gt;  • Support for wide selection of phones and tablets  &lt;br&gt;  • Integration with Sybase Unwired Platform and Afaria  &lt;br&gt;  • Annotate and Collaborative around Mobile Content</td>
<td>• SAP BusinessObjects Explorer Mobile 4.08</td>
</tr>
</tbody>
</table>

Solution today
SAP BusinessObjects BI solutions – Mobile
SAP BusinessObjects Mobile – delivering insight into critical moments of engagement

SAP BusinessObjects Mobile iOS 4.3, Android 4.1

Scope

• Most comprehensive mobile analytics solution within the world’s largest BI eco system with support for SAP BusinessObjects Web Intelligence, Crystal Reports, and the SAP Mobile Platform
• Seamless access to information anytime online, offline, on premise and on demand across the industry’s leading mobile devices
• Annotate your content with questions and key findings and share and collaborate with colleagues in real time
• Support for big data with SAP HANA, delivering high impact analysis instantly

Key benefits

• Empower business users to make better decisions everywhere with instant access to key business insights
• Ultra simple user experience for finding, understanding and sharing information with your business network from anywhere in the world
• Find answers to critical questions quickly, whether you are in the board room, on an airplane or at a customer site
• Realize rapid time to value leveraging existing investments in SAP BusinessObjects and extend the power of Mobile Analytics throughout and beyond your organization

Solution today
SAP BusinessObjects BI solutions – Mobile
SAP BusinessObjects Explorer Mobile – explore your business at the speed of thought

SAP BusinessObjects Explorer Mobile iOS 4.1.4

Scope

- Support for big data with SAP HANA, delivering highly interactive real time views of your business with extreme speed
- New intuitive layout and in-app tutorials
- Smart visualizations with online and offline support for Exploration Views
- Time and geography awareness, support for two dimensions in charts and improved relevancy in search results

Key benefits

- New engaging, interactive experience empowers business users to ask any question and receive instant answers
- Search and explore large volumes of any data to answer questions, discover relationships, and uncover root causes
- Delivers insight at the speed of thought – without requiring assistance from professional content authors or IT

Solution today
# SAP BusinessObjects BI solutions – Extreme

## Overview: Predictive; real time; big data

### Key needs
- Develop custom predictive models to uncover hidden trends and insights
- Enjoy your everyday BI experience with your preferred BI tools enhanced by the HANA performance capabilities
- Best BI experience on big data with user-friendly interfaces on complex data deployments

### Key innovations
- **Predictive analysis: Uncover hidden trends and insights – take proactive action**
  - Simplified User Experience for In Memory Predictive Analysis with SAP HANA
  - Access to advanced visualizations directly within the modeling tool
- **SAP BusinessObjects BI on SAP HANA: high-performance analytics**
  - Improved BI experience through discovering new ways to work with your data by unleashing the power of HANA in your preferred BI tools
- **HADOOP: high-performance analytics on petabyte-scale data**
  - Single view of multiple big data storage systems: Hadoop Hive; Sybase IQ; SAP HANA
  - And federate them together

### Release
- SAP BusinessObjects Predictive Analysis
- SAP BusinessObjects Business Intelligence platform 4.0, feature pack 3
- SAP BusinessObjects Business Intelligence platform 4.0, feature pack 3
SAP BusinessObjects BI solutions – Extreme
Predictive analysis: Uncover hidden trends and insights – take proactive action

SAP BusinessObjects Predictive Analysis

Scope

• **Simplified user experience for In Memory predictive analysis with SAP HANA**
  – Drag-and-drop visual interface for data selection, preparation, and processing
  – Ability to access the in-database predictive algorithms of SAP HANA

• Access to advanced visualizations directly within the modeling tool, pulling from a myriad of data sources

Key benefits

• **SPEED**: No need to extract terabytes of data from SAP HANA to perform predictive analytics

• **EASE** of use for the data analyst

• **POWER** visualizations and the ability to share insights with other BI tools

Solution today
## SAP BusinessObjects BI solutions – Extreme

**SAP BusinessObjects BI on SAP HANA: high-performance analytics**

### SAP BusinessObjects Business Intelligence platform 4.0, feature pack 3

<table>
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<th>Scope</th>
<th>Key benefits</th>
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<td>• Improve your BI experience and discover new ways to work with your</td>
<td>• Enjoy your everyday BI experience with your preferred BI tools enhanced by</td>
</tr>
<tr>
<td>data by unleashing the power of HANA in your preferred BI tools</td>
<td>the HANA performance capabilities</td>
</tr>
<tr>
<td>• Full BI suite support of SAP HANA</td>
<td>• Benefit of new BI capabilities specifically introduced for HANA: enrich</td>
</tr>
<tr>
<td>• New HANA specific technology development in client tools</td>
<td>data and write back, multilingual exploration spaces, etc.</td>
</tr>
<tr>
<td></td>
<td>• Report on real-time federated data from HANA and other data sources</td>
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</tbody>
</table>

### Solution today
## SAP BusinessObjects BI solutions – Extreme

**HADOOP: High-performance analytics on petabyte-scale data**

### SAP BusinessObjects Business Intelligence platform 4.0, feature pack 3

**Scope**

- **Single view of multiple big data storage systems:**
  - Access Hadoop Hive
  - Access Sybase IQ
  - Access SAP HANA
- And federate them together

**Key benefits**

- Best BI experience on big data with user-friendly interfaces on complex data deployments
- Federation of the power of SAP HANA and the storage capacity of SAP Sybase IQ and Hadoop scalability

> Deliver enhanced insights and enable new applications that were not feasible (or cost-effective) before

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**SAP Big Data Value**

via SAP scenarios and applications

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SAP BusinessObjects BI solutions – Core
Overview: Core for innovation; complete BI suite; continued leadership

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<td>• Rich and complete premium Business Intelligence integrated with SAP NetWeaver BW</td>
<td><strong>BI for customers of SAP NetWeaver BW: Connect directly to SAP NetWeaver</strong></td>
<td>• SAP BusinessObjects Business Intelligence platform 4.0</td>
</tr>
<tr>
<td></td>
<td>• Consistent client data access using direct connection to your SAP BEx queries from all clients</td>
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</tr>
<tr>
<td>• Rich and complete premium Business Intelligence integrated with SAP ERP</td>
<td><strong>BI for customers of SAP ERP: Connect directly to your operational data</strong></td>
<td>• SAP BusinessObjects Business Intelligence platform 4.0</td>
</tr>
<tr>
<td></td>
<td>• Direct data access via semantic layer to SAP ERP (InfoSet, ABAP Function, ABAP queries)</td>
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<tr>
<td></td>
<td>• Ability to leverage “Embedded Analytics” as part of your business processes</td>
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<td></td>
<td>• One software platform that powers embedded analytics, SAP Rapid Marts, and rapid deployment of operational reporting with SAP ERP and SAP HANA</td>
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</table>
SAP BusinessObjects BI solutions – Core
BI for customers on SAP NetWeaver BW: Connect directly to SAP NetWeaver

SAP BusinessObjects Business Intelligence platform 4.0

Scope

- Consistent client data access using direct connection to your SAP BEx queries from all clients
- Enhanced hierarchical workflows allowing users to leverage hierarchies in charts, navigations, drill down, input controls.
- Ability to use actions from within the BI content to reach into transactional systems

Key benefits

- Consistent data access across tools reduces training and administration cost and protects investment in existing BEx queries
- Enhanced hierarchy support in all BI clients to truly leverage your existing meta-data from SAP NetWeaver BW
- Perform “actions” directly within your BI content without having to leave the system

Solution today
SAP BusinessObjects BI solutions – Core
BI for customers SAP ERP: Connect directly to your operational data

SAP BusinessObjects Business Intelligence platform 4.0

Scope

- Direct data access via semantic layer to SAP ERP (InfoSet, ABAP Function, ABAP queries)
- Ability to leverage “Embedded Analytics” as part of your business processes
- One software platform that powers embedded analytics, SAP Rapid Marts, and rapid deployment of operational reporting with SAP ERP and SAP HANA

Key benefits

- Self Service, real-time reports and dashboards without having to upgrade your SAP ERP or having to add SAP NetWeaver BW
- Leverage BI as part of your business process
- Accelerate your BI deployment with prepackaged subject area specific BI content

Solution today
SAP BusinessObjects BI solutions – Social
Overview: Ability to capture the decision; information in context; ability to leverage the network

<table>
<thead>
<tr>
<th>Key needs</th>
<th>Key innovations</th>
<th>Release</th>
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<tbody>
<tr>
<td>• Make better decisions by combining social collaboration with business intelligence</td>
<td><strong>Collaboration: Drive fast, meaningful results with integration of SAP StreamWork</strong></td>
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<td></td>
<td>• Send and schedule BI documents to a SAP StreamWork activity</td>
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<td>• Follow and collaborate on BI documents within BI launch pad</td>
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<td>• Use mobile support</td>
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<td><strong>Available now</strong></td>
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Solution today
SAP BusinessObjects BI solutions – Social Collaboration: Drive fast, meaningful results with integration of SAP StreamWork

SAP BusinessObjects Business Intelligence platform 4.0, feature pack 3

Scope

- Send BI documents to an activity in SAP StreamWork
- Link from SAP StreamWork to BI documents
- Schedule BI documents to SAP StreamWork
- Follow and collaborate on BI documents within BI launch pad
- Feed for SAP StreamWork available as module for BI workspaces so that users can keep track of followed reports
- Mobile support: comment on reports and send reports to new or existing activities in SAP StreamWork (available in SAP BusinessObjects Mobile 4.1 (for iPad)).

Key benefits

- Make better decisions by combining social collaboration with BI
- Add value to BI documents by augmenting them with social insights

Solution today
Planned innovations by functional area
SAP road map for the SAP BusinessObjects BI solutions

Overview

Solution today

Planned innovations

Releasing Q2 2013!

Future direction

Platform
Self-service
Dashboards and apps
Reporting
Mobility
Big data
BI for SAP software
Collaboration

Platform
Self-service
Dashboards and apps
Reporting
Mobility
Big data
BI for SAP software
Collaboration

Core
Creative
Mobile
Extreme
Social
Features by product areas

**SAP BusinessObjects BI platform**
- Core BI platform
- Self-service access to SAP BusinessObjects BI (BI launch pad)
- BI Workspaces
- Semantic Layer

**SAP BusinessObjects BI client tools delivered with BI 4.1**
- SAP BusinessObjects Crystal Reports for Enterprise
- SAP BusinessObjects Web Intelligence
- SAP BusinessObjects Explorer
- SAP Business Objects Dashboards
- SAP BusinessObjects Analysis, edition for OLAP

**SAP BusinessObjects BI clients supported by BI 4.1**
- SAP Visual Intelligence
- SAP BusinessObjects Analysis, edition for MSFT Office 1.4
- SAP BusinessObjects Design Studio 1.1
- SAP Business Objects Mobile BI 5.0
- SAP BusinessObjects Desktop Intelligence 3.1 SP6 FP6.1
BI 4.1 Suite Install Packages (Platform and Clients)

- **BI 4.1 will be available as a full install and update install**
  - Full install: can be used for first time installation or side-by-side installation
  - Update install: can be applied on existing 4.x environments

- **First time installs can done using the BI 4.1 full install package**

- **Existing deployments:**
  - **Supported upgrade scenarios** (upgrading from previous major version [XI R2 or XI R3])
    - Full install package
  - **Supported update scenarios** (updating from current major version [XI 4.x])
    - Update install package
BI 4.1 Supported Upgrade Scenarios (from XIR 2 and XI 3)

• **Separate Environments (recommended)**
  • Install BI 4.1 [Full install package] on a separate server
  • Use Upgrade Management tool to upgrade content to BI 4.1

• **Side-by-Side Install**
  • BI 4.1 [Full install package] can be installed on the BOEXIR2 SP2 or BOE3.x Server, provided:
    • Server OS is 64-bit, and
    • Meets BI 4.1 install prerequisites

NOTE: There is a direct upgrade path for migrating and upgrading content from XIR2 SP2 and XI 3.1 to 4.1
• Use Upgrade Manager Tool to upgrade content to BI 4.1
BI 4.1 Supported Update Scenarios (from BI 4.X to BI 4.1)

- **In Place update install package**
  - Update BI 4.0 deployment (overwrites binaries)

- **Separate Environments**
  - Install BI 4.1 on a separate server, and migrate content
  - Use lifecycle management capabilities in the CMC to migrate content to BI 4.1 system

NOTE: For large systems batches of 100 objects per promotion is recommended
BI platform

- Core BI platform
- Self-service access to SAP BusinessObjects BI (BI launch pad)
- BI Workspaces
- Semantic Layer
SAP BusinessObjects BI platform
Core BI platform (1/2)

Lower Total Cost of Ownership through BI Platform Administration Improvements

**System Configuration Wizard**
- Simple workflow to accomplish initial server configuration of the BI system
- Command line facility to enable programmatic configuration

**Upgrade Management Tool enhancements**
- Enhanced service dependency checking prior to upgrade
- Simplified process to migrate 3rd party authentication type (AD, LDAP, SAP) users, eliminating the need to remap user groups on target system

**Multitenancy**
- Recording tenant ID in auditing data
- Ability to restrict concurrent logon session per tenant
- Multitenant provisioning tool enhancement to support unix universe

**Single sign-on to HANA**
- Enable single sign-on from BI client tools to HANA via SAML
SAP BusinessObjects BI platform
Core BI platform (2/2)

Supportability
- Ability to trigger Java server thread-dump from Solution Manager
- Improved visibility to server status in case of error
- Error message improvements
- Software version is represented consistently and easily observable

RESTful Web services
- Single sign-on with Active Directory authentication or Trusted authentication
- JSON format support
SAP BusinessObjects BI platform
Self-service access to SAP BusinessObjects BI (BI launch pad)

Make better decisions as a team by sharing opinions and information about BI content

Collaboration enhancements
- Ability to collaborate on document instance
- Ability to collaborate while viewing BI document in the viewer
- New security right to manage who can collaborate on the BI content
- Collaboration service powered by SAP Streamwork or SAP Jam

Document upload workflow enhancement
- Ability to replace existing document when uploading 3rd party documents
SAP BusinessObjects BI platform
BI Workspaces

Streamlined information consumption by centralizing and personalizing regularly accessed information and analytics needed for daily work activities

BI Workspaces

• Adding support for background image and/or color
• Adding support for Explorer documents
Enhanced support for SAP data sources
• Improved BW access performance for client design time
• Authored relational Universe on limited set of Bex queries
• Direct access to HANA views (transient MDX universe, Crystal Reports for Enterprise only)
• Consume HANA features (variables, input parameters, hierarchies, units of measures)
• Automatic generation of universe on one or multiple HANA views with dynamic choice of the best view at runtime
• Improved access to ERP (optional parameters and enhanced automatic universe generation)

New agnostic sources
• Teradata 14, Oracle Exadata, Hadoop on Amazon EMR, oData, XML, Web Services

Important Information Design Tool (IDT) improvements
• Data federation in IDT: support for federated tables
• Improved user experience

Semantic layer SDKs
• Extended version of the SL authoring SDK (includes universe creation)
BI clients delivered with BI 4.1

- SAP BusinessObjects Crystal Reports for Enterprise
- SAP BusinessObjects Web Intelligence
- SAP BusinessObjects Explorer
- SAP BusinessObjects Dashboards
- SAP BusinessObjects Analysis, edition for OLAP
SAP BusinessObjects Crystal Reports for Enterprise
Streamline Report Design

Introducing more efficient workflows and features focused on reducing time to create and format reports

**Freehand SQL command object**

- Customize the SQL to optimize the query to relational data sources

**Verify database options**

- Ensure the report query reflects the modifications to the underlying data source
Enhanced performance and reliability is provided in BI 4.1 when accessing BEx queries through Crystal Reports

**Enhanced SAP BW integration**
- Persist variable values in query panel and consume in HTML viewer
- Level selection for BW Hierarchy Variable
- Level selection based on relative depth for BW Hierarchy Variable
- Variable selection before query panel display
- Toggle between technical name vs. member caption for BW variables

**Enhanced SAP ECC support**
- Support SAP ECC’s optional parameters with no default value when access through an authored universe

**Enhanced SAP HANA support**
- Authored relational universe
- Direct OLAP access to Analytic and Calculated views including hierarchies and variables
- Direct access through JDBC and ODBC
- Support for JDBC SSL

**Authored universe support for XML and OData**
**Other enhancements**
- Chunking list of values in HTML viewer
- Default view action in BI launch pad

**OEM/Developer**
- Allow application developers to use OpenDoc API with very long URL
- Support for OpenDoc POST request
SAP BusinessObjects Web Intelligence
Developer Support

Provide RESTful Web services API and UI customization options

RESTful Web services additional APIs
- Consumption workflows of Web Intelligence document
- Data sources and data providers workflows
- Document authoring workflows
- Scheduling workflows

UI customization
- Personalized Web Intelligence clients
- Customization per user group in CMC
- Customization of UI elements and actions
SAP BusinessObjects Web Intelligence
Core enhancement

Enhanced user experience in reporting capabilities

**Freeze Header**
- Keep table rows or columns visible while scrolling
- User defined number of first rows or columns to freeze

**Custom color palettes and color assignment**
- Creation and edition of custom palettes to manage chart coloring
- Color assignment improvements

**Measure delegation**
- Auto-refresh option at server & document level
- Reduce #unavailable by delegating measure calculation when given against a simple formula

**Merged Objects**
- Can add/remove object to a merged object
- Allow merged objects with hierarchy

**Usability enhancements**
- Report header/footer properties re-organization
- Fold/unfold on table in reading mode in HTML
- List of value (LOV) selector in formula editor
- Single query execution in query panel
SAP BusinessObjects Web Intelligence
Data source support enhancements

Enhanced workflow for HANA, BW and others data sources

Enhanced SAP BW integration
- Level selection for BW Hierarchy Node Variable
- Level selection based on relative depth for BW Hierarchy Variable
- Variable selection before query panel display

Enhancements for HANA support
- Query stripping

Enhancements for other sources through universes
- Support ERP optional parameters with no default value
- OLAP connection overload
- Query stripping
Explorer 4.1 allows user to create Information Space on top of both universes UNV + UNX.
Explorer improved workflows:

**Free Facets**
- You now have the ability to define if you would like to enable “Optimization” for an Information space
- In that case, opening an exploration becomes instantaneous

**Real Time Datasources (HANA)**
- Better understand when data has been refreshed
- User can force the refresh to retrieve the last minutes updates
Explorer now offers a tool to help Manage Space administrator:

**Change Datasource:**
- Change the original datasource to a production or another more up-to-date datasource
- Keep your Information Space definition
- Keep all eViews relying on your Information Space
SAP BusinessObjects Dashboards
General information

• Please navigate to the SAP BusinessObjects Mobile section of this presentation for details on the enhancements to Dashboards for mobile consumption

• Please refer to the Choosing the Right SAP BusinessObjects BI Client presentation for more information about when to use SAP BusinessObjects Dashboards and when to use SAP BusinessObjects Design Studio for a dashboarding project
SAP BusinessObjects Dashboards
Download online dashboards for offline sharing on desktop

Offline support for flash dashboards
- In Designer, turn on offline support by checking "Allow This Dashboard to be Used Offline"
- During runtime, right click on Dashboards, and click "Download dashboard with current data to local"
Dynamic Positioning of Components

- Support binding x, y position of components in Text, Containers, Web/Universe Connectivity, Art and Backgrounds categories
- Support binding width, height of components in Art and Backgrounds category
SAP BusinessObjects Dashboards
Accessibility

• Support assistive technology
• Run dashboard (flash) and navigation among controls with keyboard
• Keyboard navigation can be made among below components
  • Buttons (Query Refresh /Connection Refresh/Push/Toggle/URL/Print/Reset)
  • Combo box
  • Scorecard
  • Text input

Preferences
Document
Grid
Open
Languages
Excel Options
Accessibility

Accessibility

Enable this option to prevent assistive technologies such as screen readers from accessing the contents of the model. In general, do not enable this option for a model unless you plan to provide a more accessible alternative for those using assistive technologies.

Note: The "Input Text", "Combo Box", "Scorecard", and certain Button components are designed to support screen readers. For more information, contact SAP Accessibility

The model Name and Description below will be exposed to screen readers, regardless of whether
SAP BusinessObjects Dashboards
Ux harmonization

Charts name change for suite consolidation

- Combination Chart -> Column Line Chart
- Bubble Chart -> Bubble Plot
- XY Chart -> Scatter Plot
SAP BusinessObjects Analysis, edition for OLAP

**Enhanced SAP BW integration**
- Enhanced Prompt Dialog to allow easy processing of large numbers of prompts
- Added support for consuming and creating SAP BW variants
- Prompt Merging
- Manual entry of Prompt Values
- Report-Report Interface
- Visualize Conditional Formatting defined in the BEx Query
- Enhanced Conditional Formatting options
- Enhanced OpenDocument with support for passing in SAP BW prompt values

**Sharing**
- Export to Design Studio for mobile device rendering
- Empower business analysts to share their data via “mini” applications

This is the current state of planning and may be changed by SAP at any time.
SAP BusinessObjects Analysis, edition for OLAP

Expanding the Market
- Oracle Essbase 11
- Oracle OLAP (4.1 SP1)

Enhanced HANA integration
- Support for Hierarchies
- Support for Prompts

Simplify and Expand Analysis
- Custom Grouping for Microsoft SQL Server Analysis Services and Oracle Essbase
- Filter by Measure for Microsoft SQL Server Analysis Services and Oracle Essbase
- Expand to Level
- Waterfall Charts

This is the current state of planning and may be changed by SAP at any time.
Right-to-Left Support
SAP BusinessObjects BI platform and SAP BusinessObjects client tools

**SAP BusinessObjects Crystal Reports for Enterprise and Crystal Reports 2012 – HTML viewer**
- Mirrored user interface
- Bi-directional text support
- Right-to-left rendering

**SAP BusinessObjects Web Intelligence - Web Intelligence Rich Internet Application & Web Intelligence Rich Client**

**SAP BusinessObjects Analysis, edition for OLAP**

**BI Launch pad**

**BI Workspaces – View mode**
- Mirrored user interface
- Bi-directional text support

**SAP BusinessObjects BI Mobile**
- Right-to-left support within the current iOS framework
- Right-to-left objects rendered right to left
Integration of BI Suite with SAP NetWeaver BW & SAP ERP

Authored Universes on BEx queries
- Authored relational Universe on limited set of BEx queries for SAP Crystal Reports for Enterprise, Web Intelligence, Dashboards, and Explorer
- SAP BW 7.3 is required

Design time performance
- Performance improvement in the design time user experience for reporting on top of SAP NetWeaver BW in SAP Crystal Reports for Enterprise and Web Intelligence

Prompting
- Merge prompts from multiple SAP NetWeaver BW queries into one prompt list so prompt values are entered once in Analysis OLAP

Variable Variants
- Save and use public and private stored prompt values collection in Analysis OLAP and Design Studio

Scheduling and publications
- Broadcast and publish of Analysis Office workbooks via the SAP BusinessObjects BI platform

This is the current state of planning and may be changed by SAP at any time.
BI clients supported by BI 4.1

- SAP Visual Intelligence
- SAP BusinessObjects Analysis, edition for MSFT Office
- SAP BusinessObjects Design Studio
- SAP Business Objects Mobile BI
- SAP BusinessObjects Desktop Intelligence
SAP BusinessObjects Visual Intelligence SP08
Empowering the business analyst

Scope

- **Enhance data manipulation capabilities**
  - With better merge functionality, replay manipulation steps & improved formula editor
- Extend Acquisition to more data sources & support different data formats during acquisition
- Empower end users to customize charts, add conditional formatting and create simple user defined views without scripting or coding
- Annotate & share your results at a click of a button on-premise or on the cloud.

Key benefits

- Extend the reach of SAP VI users in an enterprise
- Enhance the features and invest more in SAP HANA
- Bolster customer’s investments in SAP BusinessObjects
SAP BusinessObjects Analysis, edition for MSFT Office 1.4
OLAP analysis in Microsoft Excel

Integration with Design Studio
Auto generate iPad and web apps through Design Studio

Enhanced BI Platform Support
Single Sign-On and LCM
Save Analysis content as BI InfoObject (instead of Excel/PowerPoint format)

Innovation
Waterfall Charts

Continuous Improvements
Broadcasting via BI Platform (delivery planned for BI 4.1 GA)
Launch Query Designer
Read mode, Versioned/time-dep hierarchies, de-/activate hierarchies, Data Refresh, Member selector for mass data (note 1824726)
SAP BusinessObjects Design Studio 1.1
Enhanced Charting Capabilities

Animated HTML5 Charts

- Animated HTML5 chart types
- New chart types: Column Combination, Bar Combination, and Waterfall Charts
- Advanced properties view to edit chart areas, data series, and data labels
- Each theme has the corresponding color palettes
Comfortable align and distribute components in layout

- Convenient for designers to organize components without writing exact margin
- All type of components can be aligned and distributed
- Components within the same container or under the same root can be aligned and distributed
- Components can be automatically maximized
- Alignment and distribution can be done via context menu in Layout or per buttons in Design Studio menu

Aligned Left

Objects are aligned left based on the object which has the most small left margin

Distribute Horizontally

Object in the middle will be moved to the center
More convenient to use filter panel for selecting data

- Member display could be defined with key, text or both
- On Submit event enables triggering interactions
- Dimension name could be hide or shown
- Ranges are able to be defined in addition to the multiple selection of members
- Defined ranges and selected members could be deleted, included or excluded
Custom Stylesheet (CSS)

- Using custom CSS to adopt customer corporate identity
- Changing the look and feel possible for every standard components
- Defining CSS document with CSS 3 standard
- Assigning CSS documents to design studio application
- Assign CSS class to the Design Studio components
Global parameters for Design Studio application

- Defining global parameter on application level
- Global parameters can be passed through URL (RRI scenarios)
- Use cases (e.g):
  - Passing through parameters for data selection
  - Passing through an exception limit for exception calculation
Additional APIs for data calculation

- Define Local variables
- Support mathematical calculation in script editor
- Command „getData“ can retrieve the data from backend systems and represent it in 4 different ways (value, text, scaling factors and unit of measure)
- Conversion between different data formats possible
SAP BusinessObjects Design Studio 1.1
Interoperability scenario with Analysis, edition for OLAP

Generate Design Studio applications from A. OLAP workspaces

- Export AOLAP analysis workspace as design studio application for mobile devices or desktops
- Design Studio applications are stored on BI Platform
- Filter member values are taken over from OALAP analysis workspace to Design Studio applications
- Further editing generated design studio applications within eclip-based design environment

AOLAP Analysis Workspace

Generated iPad application with 2 pages with pre-set filter values
SAP BusinessObjects Design Studio 1.1
Deployment Options

SAP BI Platform
- Available as of Design Studio release 1.0
- Design Studio applications stored on BI Platform
- Backend connections through CMC, can connect to multiple SAP BW and SAP HANA systems
- Transportation via Promotion management
- Pre-requisite for SAP BI Mobile

SAP NetWeaver
- Available as of Design Studio release 1.1
- Design Studio applications stored on SAP BW
- Transported through different systems via TLOGO objects (ABAP transport mechanism)
- Can only connect to one BW system
- SAP Portal mobile solution is planned

SAP HANA
- Available as of Design Studio release 1.1
- Design Studio applications stored in HANA repository
- Can only connect to one HANA system
- Java script rendering within browser
- Data request to backend proceeded parallelly

Local mode
- Available as of Design Studio release 1.0, only for demo or quick prototyping purpose
SAP BusinessObjects Design Studio 1.1
Deployment Options: BI Platform and SAP NetWeaver

Deployment Options
BI Platform
SAP NetWeaver (as of version 1.1)

Sources
SAP NetWeaver
- BW
- SAP HANA

BI Consumer Services
Design Studio

SAP NetWeaver
- BI Mobile
- BI Platform
- Single Sign-On
- Central Connection Management
- Repository (BI Launchpad) / LCM
- Connections via SAPLOGON.INI
- Repository / LCM

SAP NetWeaver (as of version 1.1)
SAP BusinessObjects Design Studio 1.1
Deployment Options: SAP HANA

Deployment Options
SAP HANA (as of version 1.1)
SAP BusinessObjects Mobile 5.0

SAP BusinessObjects Explorer Mobile and SAP BusinessObjects Mobile integrated into single application

- Listing of Information spaces and exploration view set with in home screen
- Listing of Personal Space and bookmarks
- Ability to launch exploration view set or information space

This is the current state of planning and may be changed by SAP at any time.
SAP BusinessObjects Mobile 5.0

Enhancement to Collaboration

- SAP Jam Integration (Collaboration tool)
- BI Inbox support
- Ability to attach voice while annotating

Enhanced Sybase Unwired Platform (SUP) Support

- SUP 2.2 support
- SUP cloud support

Tighter Device Integration

- QR Code Scan (QR code to share document or connection details)
- Barcode scan (to fill input control, prompts and search toolbar)

New Home Screen

Support for SAML2 deployments

This is the current state of planning and may be changed by SAP at any time.
SAP BusinessObjects Mobile 5.0
SDK

**Customization SDK**
- Font customizations
- Home screen customizations
- Default connections
- White labeling support

**Extension SDK**
- Replacing Apple Map Viewers and extending Map capabilities
- Allow extending charts via extension SDK
# SAP BusinessObjects Mobile 5.0

Web Intelligence & Crystal Reports specific enhancements

### WebI Chart Enhancements
- New Chart types
  - Dual axis chart & 100% stacked bar
- Report element linking support for Bubble, Waterfall and H-Bar chart
- Custom axis scaling support
- Chart title background support
- Bar microcharts support
- Color customization support for microcharts
- Reverse bullet chart support
- Custom Palette support

### WebI OpenDoc Enhancements
- Latest instance support for user & prompts

### WebI Geomap Enhancements
- Support for iPhone
- Disable dimension/measure listing if only one dimension and measure is available
- Centring POI for Geomaps
- Allow multi select in dimension values in geop map view

### WebI Geomap Enhancements
- Support for Multi-column LOV’s

### WebI Support of PDF

### WebI Table Enhancements
- Support for font styling in Tables and Free cells
- Geomap type popover UI for tables
- Copy text from table

### Crystal Reports
- OpenDoc support for Crystal reports so that destination document opens within container
SAP BusinessObjects Mobile 5.0
Design Studio specific enhancements

**Design Studio**

- Support for iPhone
- Hide tool bar
- Enable launching OpenDoc URLs from within Design Studio Apps
- Lock orientation for apps
- Consume Analysis, edition for OLAP content to enable mobile device rendering
SAP BusinessObjects Mobile 5.0
Dashboards specific enhancements: more charts

More Charts for Mobile Dashboards

- Waterfall Chart
- Bubble Slot

Waterfall Chart

Bubble Plot
SAP BusinessObjects Mobile 5.0
Dashboards specific enhancements: extended charting capabilities

Added HTML Chart Data Label support for mobile

- Line Chart
- Column Chart
- Bar Chart
- Stacked Column Chart
- Stacked Bar Chart
- Column Line Chart
- Waterfall Chart
- Bubble Plot

Dynamic positioning

- Label
- Arts
- Single values
SAP BusinessObjects Mobile 5.0
Dashboards specific enhancements: extended connectivity

Support Query As a Web Services (QaaWS) Connection
• Includes offline support

Connection Refresh button
SAP BusinessObjects Mobile 5.0
Dashboards specific enhancements: extended connectivity

Flash Variables support for Mobile Dashboards

- XML format Flash Variable
- CSV format Flash Variable
- Configurable on CMC
- Pass Flash Variable through openDocument URL
- Pass Flash Variable in “SAPBI” format
- Flash Variable can be used as the source of other connections
Design one mobile dashboard for both Android and iOS
Partners can develop HTML5 Add-On component/connection/formula for Mobile (HTML5) dashboards.
JavaScript Add-On SDK

- Create Add-On components, connections and formulas for mobile dashboard with JavaScript
Add-On Package

- Package Add-On components, connections and formulas for mobile dashboard
- Delivered with SDK Packager
- Add-on samples
Add-On Manager

- “Mobile Support” flag
SAP BusinessObjects Desktop Intelligence 3.1 SP6 FP 6.1
Web Intelligence is the way forward

Scope

- **Consumption of DeskI content in BI 4.1 using Desktop Intelligence 3.1 client**
- SAP BusinessObjects Enterprise 3.1 SP6 FP6.1 will provide the Desktop Intelligence client the capability to connect to a BI 4.1 CMS
- SAP BusinessObjects Enterprise 3.1 EoL timelines are still applicable on Desktop Intelligence

Key benefits

- Important and critical Desktop Intelligence documents can be stored in BI 4.1
- Customers gain additional time to convert Desktop Intelligence documents while on BI 4.1
- Reduced TCO, as customers can retire SAP BusinessObjects Enterprise 3.1 completely
What’s New in BI 4.1: Summary

• Both new and updated SDKs enabling customers and partners to integrate and extend all aspects of BI into their existing IT ecosystem

• Better Universe design experience with new Universe creation wizard and Data Federator Designer integration

• First time ever programmatic access to Universes enabling customers, partners and other BI solutions to consume the world’s most popular BI semantic layer

• Facilitate migration of traditional database based BI to HANA based BI with automatic generation of Universes on one or multiple HANA views with dynamic choice of the best view at runtime

• Oracle customers rejoice! Better BI for Oracle with support of Oracle Exadata, Oracle OLAP and Oracle Essbase

• Support of unstructured Big Data with connectivity to Amazon’s Elastic MapReduce (EMR) Hive added to our existing Hadoop Hive data access

• Direct dimensional connection for Crystal Reports to HANA
What’s New in BI 4.1: Summary

• Simplified deployment to accelerate time to value and lower cost of ownership
• Enhanced migration tools to facilitate smooth upgrade from XI R2 and XI 3
• Repository support of DeskI content to bridge the transition from DeskI to BI 4
• Improved interoperability between BI clients for consistent user experience
• Tenant-based session management for multi-tenanted platforms to be deployed for customers operating multiple entities on a single instance
• Additional and updated 3rd party platform support
• Delivery of long-awaited usability features for improved user experience
• Offline (Xcelsius) Dashboards
• Significantly expanded SAP BusinessObjects Mobile capabilities for all content types
• Expansion of embedded analytics capabilities
High Level Timeline

2013

Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec

**RTC Apr 30**

**RTC Jul 30**

**RTC May 20**

**RTC Date KPI based**

**Final Validation**

**Final Validation**

**GA Date KPI based**

**Date KPI based**

**Ramp-up (KPI based)**

**BI 4.0 SP06**

**BI 4.0 SP07**

**BI 4.1**

**BI 4.1 SP01**
Future plans by investment area
## SAP road map for the SAP BusinessObjects BI solutions

### Overview

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<tr>
<td>Collaboration</td>
<td>Collaboration</td>
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</table>

### Future direction

- **Core**
- **Creative**
- **Mobile**
- **Extreme**
- **Social**
SAP’s future strategic direction on business intelligence

**Core**
- Ubiquitous BI for all users and landscapes
- Consistent experiences
- Scalability, security, and integration

**Creative**
- Compress information to insight
- Empower analysts
- Empower IT

**Mobile**
- Extend analytics throughout your organization and beyond
- Next generation visual analytics
- Contextual BI

**Extreme**
- Analytics first experiences
- High resolution BI
- Low latency extreme data performance

**Social**
- Converge BI and collaboration
- Real-time social analysis
- Capture context at all points in the information chain

**Innovation without disruption**
SAP BusinessObjects BI built for SAP HANA
Beakthrough visual data discovery native on SAP HANA

Scope

- Intuitive visual-first experience to explore HANA models created from Visual Intelligence or HANA Studio
- Visually analyze data in a manner that improves data comprehension & avoids charting dead-ends
- Native to HANA - fully leveraging HANA speed, models calculation, predictive & other services
- Optimized Web & tablet experiences

Key benefits

- Easy access to data for anyone through search and suggestions of pertinent information based on user’s context
- Quickly understand your business through interactive, gorgeous, and flexible visualizations built for big data
- Get even more out of your SAP HANA investment by leveraging the power and flexibility of tools natively built for HANA

Planned innovations
SAP BusinessObjects BI built for SAP HANA in the Cloud
Cloud analytics powered by SAP HANA – complete, intuitive, turnkey

Scope

- Publish and synchronize SAP Visual Intelligence data and visualizations to easily get on premise data to the hands of connected users
- Intuitive visual-first experience that improves data comprehension and question to answer speed
- Native to HANA - fully leveraging HANA speed, models calculation, predictive & other services
- Turn-key BI packages that connect out-of-the-box to SAP Business Suite solutions
- Optimized Web & tablet experiences

Key benefits

- Enable power users and data analysts to independently access any data, and share it with their business
- Connect to the SAP Business Suite for turn-key analytics at low time to value
- Create compelling reports and dashboards without coding and share them instantly and securely
- Make decisions faster and more accurately by leveraging on-premise pre-aggregated data anywhere, anytime and on any device

Planned innovations
SAP BusinessObjects BI platform and clients  
Enhanced visualization

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<tr>
<th>Scope</th>
<th>Key benefits</th>
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<tr>
<td>• Share high impact visuals on nearly any device</td>
<td>• Make sense of massive data instantly through visualizations</td>
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<td>• Designed for Big Data</td>
<td>• Overlay chart visualizations with geocoded data, giving location-based insight into your business</td>
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<tr>
<td>• Geospatial Enhanced</td>
<td>• Customize and extend with industry or company specific visualizations</td>
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<td>• Extensible Visualizations</td>
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Planned innovations

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Useful additional information
Key links for SAP customers and partners

- Getting Started with SAP BusinessObjects BI Solutions
- BI4 Upgrade Resources
- How to Select the Right BI Tool for Your Environment
- sap.com/LearnBI: eLearning product tutorials
- Road Maps on SAP Service Marketplace
- SAP’s Release Strategy for Major Releases of SAP BusinessObjects BI
- Gartner Names SAP Worldwide Market-share Leader for Business Intelligence
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