What’s new with Analysis Office & OLAP?

Ian McAlpine, Alexander Peter
Overview
Full Spectrum Business Intelligence

**Discovery and Analysis**
- Discover areas to optimize your business
- Adapt data to business needs
- Tell your story with beautiful visualizations

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

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**Analytical Applications**

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

**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 & SAP HANA sources + 3rd party OLAP

**Web**

**AdHoc 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 & SAP HANA sources

**Microsoft Office**

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Analysis & Design Studio
Designed for BW, BW on HANA & Native HANA Scenarios
SAP® BusinessObjects™ Analysis, Edition for Microsoft Office
Multidimensional Analysis of SAP BW and SAP HANA

Target User Groups:
- BI Professional
- Business User

Modern and familiar Microsoft Office user experience
Build powerful Excel workbook BI applications
Support BW-Integrated Planning
Create live PowerPoint presentations

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SAP® BusinessObjects™ Analysis, Edition for OLAP
The best web client for SAP BW and SAP HANA

Target User Groups:
Data Analysts

- Few simple clicks to fast business insights
- Pervasive web-based analysis
- Interoperate with WebI and Crystal Reports
- Modern look-and-feel with intuitive drag-and-drop
- SAP BW, HANA, EPM, Teradata and Microsoft Analysis Services

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SAP® BusinessObjects™ Design Studio
Powerful analytical & planning apps on SAP BW and HANA

Target User Groups:
- IT
- Key Users
- Designers

Direct Access to BW and HANA via BICS

Eclipse-based application design environment

iPad Apps

Premium alternative to BEx WAD

State of the art rendering: HTML5

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Business Explorer (BEx) and Analysis/Design Studio
Existing Investments in SAP BW are safe

- BEx tools in maintenance mode
  - BEx 7.0 is delivered with the latest BW release and will be maintained for at least the next 7+2 years
  - See additional information on SCN
  - BEx Query Designer remains core modeling tool for SAP BW

Conversion
Conversion support available for Analysis edition for Microsoft Office
Conversion support planned for Design Studio
Analysis, edition for MS Office
SAP BusinessObjects Analysis & Design Studio
The Premium Alternative to BEx

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SAP® BusinessObjects™ Analysis, Edition for Microsoft® Office
Your Added Value

**Usability**

- Great new look-and-feel
- Design Panel
- Saving costs by minimum training effort

**Focus on Business User**

- Bring more flexibility to business user
- Moves load from central IT
- Tightly integrated into familiar Microsoft environment

**Innovation**

- Microsoft PowerPoint Add-In
  - New API concept for custom Excel workbook development
  - Combine local and corporate data

Version 1.0 Generally Available since Q3 2010

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Use Cases for Analysis, Edition for MS Office

- Centralized creation of Analysis content (workbooks & PowerPoints)
- Sophisticated workbook design (VBA APIs and so on)

Power User / IT

- Ad Hoc data access and data analysis, slicing & dicing, and so on, in Excel
- Ad Hoc embedding of BI data into PowerPoint presentations

Business Analyst

- Consuming pre-defined BI content in Microsoft Excel and Microsoft PowerPoint

Business User & Task Worker

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More Powerful with Live Presentations

- Live analyses embedded into PowerPoint presentations

- Export current analysis from Excel

- Insert BEx query results directly

- Analysis embedded as live object
Design Panel

- New Design Panel for easy navigation

- Views
  - Analysis
    - Allows navigation, filtering, slice & dice etc.
  - Information
    - General information on the embedded data source or the workbook itself (i.e. last data refresh, created by, etc.)
    - All relevant information (filters, variables, etc.) at a glance
  - Components:
    - Structural information view either from the data source or the worksheet perspective
    - Access to planning features

- Navigation
  - Simplified drag & drop within panel or into grid to filter, drill-down, slice & dice, replace, and so on
  - Harmonized with other BusinessObjects clients
  - Finger-tip access to hierarchies
  - Access to display attributes
Analysis Options for Business Analyst

• New options for the end-user
  – Define conditional formatting (aka “exceptions”)
  – Define filter by measure (aka “conditions”)
  – Define easy calculations and dynamic calculations
  – Excel commentary on data cells

• New hierarchy features
  – Collapse into hierarchical structures (“display hierarchy”)
  – Show/hide hierarchy levels
  – Sort breaking hierarchies

• Pause refresh
  – Design of several steps with only one final roundtrip to the server to fetch the data
Easy Application Building

- Workbook Design
  - Easy insertion of multiple data source (from multiple systems)
  - Improved overview of BW elements in an Excel workbook
  - Free formatting of text elements
  - Add Excel-based charts

- New API as Excel formulas
  - Easy development, directly in worksheet
  - Tightly integrated into Excel development framework
  - API for filtering, drilldown, etc.

- Sharing Workbooks/PowerPoint files
  - Save workbook/ppt presentation in SAP BusinessObjects BI Platform

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Combine Local and Corporate Data

- Flexibility for the business
  - Simply add local dimensions and measures
  - Combine local data with corporate query
  - Model generation without modeling knowledge

- Reliable, enterprise-ready infrastructure
  - Leverages BW Workspaces (requires BW 7.30 and HANA or BWA)
  - Consistent, secure
  - Powerful Workspace Designer for power users
  - Admin settings for quota, roles etc.

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News in Release 1.3

- **Platform Features**
  - Report-Report Interface (as sender: query, URL)
  - Variants
  - Storing workbooks/ppts in BW repository
  - Launcher (from ABAP transaction)

- **Innovation**
  - Combine local Excel data with corporate data (using BW Workspaces)

- **HANA Support**
  - Hierarchies, Prompts, Password Change

- **Conversion of (simple) BEx workbooks**

- **BW Integration**
  - Activating/deactivating BEx conditions

GA since Oct 2012

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Planned Features in Release 1.4

- **Analysis Suite**
  - Interoperability with Design Studio
  - Automatic transformation from Analysis Office apps to iPad apps

- **Enhanced BI Platform Support**
  - Single Sign-On and LCM (requires BI 4.1)

- **Innovation**
  - Waterfall Charts

- **Continuous Improvements**
  - Broadcasting via BI Platform 4.1 (Feature Pack planned for Q3 2013)
  - Launch Query Designer
  - Readmode, Versioned/time-dep hierarchies, de-/activate hierarchies, Data Refresh, Member selector for mass data (note 1824726)

Ramp-up planned for Q2 2013

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<table>
<thead>
<tr>
<th>Today</th>
<th>Planned Innovation</th>
<th>Future Direction</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Highly interactive multidimensional analysis on SAP sources (BW &amp; HANA)</td>
<td>Automatic transformation into web and iPad applications (via Design Studio)</td>
<td>Enhanced PowerPoint support</td>
</tr>
<tr>
<td>MS PowerPoint Publishing</td>
<td>BI platform integration enhancements (SSO improvements)</td>
<td>Document management</td>
</tr>
<tr>
<td>Excel-based application design via powerful API</td>
<td>Waterfall Charts</td>
<td>“Dynamic Grid”, i.e.enhanced formatting options in analysis modus</td>
</tr>
<tr>
<td>Analysis Excel write-back on BW-IP (integrated planning)</td>
<td>Scheduling and publication</td>
<td>Custom local hierarchies</td>
</tr>
<tr>
<td>Combine local and corporate data (via BW Workspaces)</td>
<td>Continuous Improvement (Performance, usability)</td>
<td>Access to 3rd party sources (via DSL)</td>
</tr>
<tr>
<td>Conversion support</td>
<td></td>
<td>HANA platform</td>
</tr>
</tbody>
</table>

Planned RTC: Q2 2013

This is the current state of planning and may be changed by SAP at any time.
• Deployment Options
  – BI Platform
  – SAP NetWeaver (as of version 1.3)
Client Prerequisites

- MS Office 2003, MS Office 2007 or MS Office 2010 (on MS Windows XP and higher)
  - Powerpoint Add-in only available for MS Office 2007 and MS Office 2010
- SAP GUI installation not required
  - But local SAPLOGON.INI file required if you don’t use BI Platform for connection management
- Client Sizing: See SAP note 1466118

Server Prerequisites

- SAP NetWeaver BW 7.0 or higher
  - Recommendation: use BW 7.0 EHP1 or SAP NetWeaver BW 7.3 as there are significant TCO and integration improvements between BusinessObjects Enterprise and NetWeaver
  - Queries defined in SAP BEx Query Designer 3.5 (within SAP NetWeaver 7.0!) or 7.0+; also: direct access to SAP NetWeaver BW InfoProvider and query views
    » No need to migrate queries, no change in BW data models necessary
    » The SAP BEx Query Designer stays as it is and can continues to be the semantic modeling level for SAP NetWeaver BW data.
  - Some new features might require patching your BW system
- Optional SAP Business Objects BI Platform 3.1 or higher (can run side-by side with SAP NetWeaver BW)
- **Performance Tips:** see collective note 1774343
Analysis, edition for OLAP
SAP BusinessObjects Analysis & Design Studio
The Premium Alternative to BEx

Analytical Applications
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Adhoc OLAP
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Web
- 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 & SAP HANA sources

Microsoft Office

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Use Cases for Analysis, Edition for OLAP

- **Power User / IT**
  - Creation of re-usable Analysis workspaces
  - Not necessarily an expert for sophisticated BI Application Design

- **Business Analyst**
  - Ad Hoc data access and data analysis, slicing & dicing
  - Creation of Analysis workspaces for personal use

- **Business User & Task Worker**
  - Can use pre-defined Web workspaces
  - Use new Analysis Applications
  - Need to operate between Analysis and more BI consumer tools like Web Intelligence

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Analysis, edition for OLAP is a self-service, multidimensional analysis tool for business analysts in mid to large enterprises who want to quickly answer their complex questions. It is THE go-to analysis tool for BW & HANA customers and also caters for selected 3rd party OLAP providers.

**Analyze your data**
- Highly interactive
- Powerful visualizations
- User defined calculations
- Native online connectivity to OLAP sources

**Multiple sources in one workspace**
- SAP NetWeaver BW
- SAP HANA
- Microsoft SSAS
- Teradata
- Oracle OLAP & Oracle Essbase

**Integrated with BI suite**
- Interoperability with Design Studio, Web Intelligence and Crystal Reports
What’s New for SAP BusinessObjects Voyager or SAP BEx Web Analyzer Users

– **New user experience**
  - Task panel
  - Layout panel
  - Sheets
  - Quick Access & Tabbed toolbars

– **New data presentation**
  - Positioning of members
  - Asymmetric drilling
  - Member reordering
  - Swap axes

– **New analytical capabilities**
  - Sorting
  - Search
  - Conditional formatting
  - Calculations
  - Null and zero suppression
  - Multiple data sources
  - Deferred query (auto update)

– **New information sharing**
  - Interoperability with SAP BusinessObjects BI solutions
  - Export to Excel and PDF

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Enhanced user-interface designed to optimize various workflows

- Workflows such as Filtering, Conditional Formatting and adding Calculations can all be achieved without hiding your data (no more pop-up dialogs)
- Task panel enables Conditional Formatting to preview results
- Layout panel allows for quick layout of data without need for drag and drop
Enhanced exporting to Excel

- Number Formatting and Conditional Formatting is retained
- Charts are exported
- Analyses or sheets can be exported

Flexible printing

- Print visible data or all data
- Fit to page width
- Specify headers and footers including custom text
Enhanced Conditional Formatting (Exceptions)

- Unlimited number of exception ranges can be created
- Highlight cell background, cell value or add a symbol
- Apply conditional formatting to headers
- 9 levels of priority
- Results can be previewed

Analysis 1

<table>
<thead>
<tr>
<th>Country Hierarchy</th>
<th>Key Figures</th>
<th>Order Quantity</th>
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<tbody>
<tr>
<td>WORLD</td>
<td>$389,587,613.34</td>
<td>428,855.65</td>
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<tr>
<td>Europe</td>
<td>$81,395,661.85</td>
<td>66,795.34</td>
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<td>Belgium</td>
<td>$4,162,605.54</td>
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<tr>
<td>Czech Republic</td>
<td>$50,120,20</td>
<td>232.65</td>
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<tr>
<td>Denmark</td>
<td>$1,715,490</td>
<td>205.75</td>
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<tr>
<td>England</td>
<td>$38,125,282.01</td>
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<tr>
<td>France</td>
<td>$22,005,00</td>
<td>221.35</td>
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<tr>
<td>Germany</td>
<td>$18,005,461.35</td>
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<tr>
<td>Greece</td>
<td>$409,494.25</td>
<td>2254.75</td>
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<tr>
<td>Hungary</td>
<td>$3,763.00</td>
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<td>Luxembourg</td>
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<td>Canada</td>
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<td>USA</td>
<td>$269,510,254.15</td>
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<td>Asia Pacific</td>
<td>$56,536,779.89</td>
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<td>Australia</td>
<td>$1,053,465.79</td>
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<td>Bangladesh</td>
<td>$29,085.30</td>
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</tr>
<tr>
<td>China</td>
<td>$18,860,096.17</td>
<td>20,690.75</td>
</tr>
</tbody>
</table>
Deep Business Insights

Calculations

Powerful user defined calculations
- Broad range of functions
- Quick calcs including percentage difference & percentage contribution

Dynamic Calculations
- Rank, Moving Average, Moving Value, Accumulative Sum,...

Aggregation Calculations
- Min, Max, Sum, Count, Average, Variance, Median, Standard Deviation,...
Simultaneous connection to multiple queries from different data providers

- Up to four different data sources per sheet
Chart types from shared CVOM library: Column (Clustered, Stacked, 100% Stacked, 3D Clustered), Line, Pie, Bar (Clustered, Stacked, 100% Stacked), Scatter, Bubble, Radar, Box Plot and Waterfall

Interactivity – if a chart and a crosstab are linked to the same analysis, both components display the same data and update simultaneously whenever you make changes to either component

Scope of Analysis – change window to focus on most important data in the chart
Innovation

- Focused Analysis
  - Only visualize selected cells

SAP BW Enhancements

- Merge hierarchies (Compact Axis)
- Display attributes
- Filter and swap hierarchy (Pivot With...)
- Directly enter values for prompts

Data Sources

- SAP HANA
  - Including hierarchies and prompts
- EPM (BPC, PCM, FC)
Planned Analysis OLAP Features in BI 4.1

- **Analysis Suite**
  - Interoperability with Design Studio
  - Automatic transformation from Analysis OLAP workspaces to simplified browser & iPad apps

- **Innovation**
  - Waterfall Charts
  - Custom Grouping (create alternative hierarchies)

- **Information Access**
  - RRI (Report-to-Report Interface)
  - Enhanced OpenDocument
  - Jumplink to WebIntelligence and Crystal Reports

Ramp-up planned for Q2 2013
Planned Analysis OLAP Features in BI 4.1

- **Enhanced BW Support**
  - New, redesigned prompt dialog
  - Enabled prompt merging
  - Support for public and personal variants (create & reuse from NW)
  - Display conditional formatting (exceptions) defined in the Query

- **New Data Sources**
  - Oracle Essbase
  - Oracle OLAP
  - (plus Teradata)

Ramp-up planned for Q2 2013
Highly interactive analysis
- Focused analysis, powerful user defined calculations

Multiple sources in one workspace
- SAP NetWeaver BW
- SAP HANA
- SAP EPM Providers
- Microsoft SSAS
- Teradata

SAP BW enhancements
- Display attributes
- Compact axes
- Manual entry of prompts

SAP HANA enhancements
- Hierarchies
- Prompts (Variables)

Analysis features
- Custom grouping
- Waterfall charts

Information Access
- Report-Report Interface
- Enhanced OpenDoc support
- Jumplink to Web Intelligence

Seamless Integration with Design Studio

Additional data sources
- Oracle Essbase & Oracle OLAP

Today
(Release 4.0 SP5)

Planned Innovation

Planned RTC: Q2 2013

Improved support for BW
- Enhanced prompt dialog
- Prompt merging
- Variants
- Conditional formatting (exceptions) from the query

Improved support for SSAS
- Drill Through

Improved support for Essbase
- SSO
- Alias tables

Analysis features
- Multi-axis and tree map charts
- Collaboration

Future Direction

This is the current state of planning and may be changed by SAP at any time.
• Prerequisites
  – Browser: IE 8 & 9, Firefox, Chrome & Safari
  – SAP BusinessObjects BI platform 4.0
    • Connections, Authentication, Repository Services, etc
  – For SAP BW connectivity: SAP NetWeaver BW 7.0 SP 23 or higher or SAP NetWeaver BW 7.0 EHP1 SP5 or higher
    • Recommendation: use SAP NetWeaver BW 7.3 as there are significant TCO and integration improvements between BI platform and NetWeaver
    • Queries defined in SAP BEx Query Designer 3.5 (within SAP NetWeaver 7.0) or 7.0+. Also direct access to SAP BW InfoProvider and query views (no need to migrate queries or change data models)
  – For MS SQL Server Analysis Services: SSAS 2008 & 2012
  – Latest versions for all other providers
Analysis/Design Studio Suite is the best integrated BI Suite on top of BW and HANA
Efficient interoperability supporting analytic and application building scenarios
Simple deployment and easy to learn for the business users
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