SAP BusinessObjects Analysis

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Alexander Peter,
Director Product Management Analysis Clients
SAP AG
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Agenda

1. Overview for Analysis clients
4. Appendix
The Right Tool For The Job
Providing best fit solutions across the range of BI requirements
The Right Tool For The Job
Providing best fit solutions across the range of BI requirements

- Crystal Reports
- Xcelsius
- Explorer

SAP Business Objects Analysis Clients

Professionally Informed
Executives, Managers
Information Consumer
Business Analysts
Technically Capable

Limited Interactive Experience, Responsiveness Full
Step 1 (BI 4.0): SAP BusinessObjects Analysis Clients for SAP BW

- **Custom Analytic & Planning Apps**
  - BEx WAD
    - IT / Developer for Task workers
    - Technical expertise (design), business domain expertise (consumer)
    - Purpose-built BW-based apps for routine analytic & planning scenarios
    - BEx WAD runtime integrated into BOE, Publishing into InfoView

- **Explorational (OLAP) Analysis**
  - Analysis, edition for OLAP
    - Data Analyst(s)
    - Analytical expertise
    - Analytical question can be immediately pursued
    - Optimized for highly interactive analysis
    - Limited layouting & formatting

- **Self-Service Reporting & Analysis**
  - Web Intelligence
    - Business Users
    - (Limited) technical expertise (report designers), business domain expertise
    - (consumer / prosumer)
    - Interactive report creation
    - Flexible formatted reports with built-in analysis features

- **Instant Exploration**
  - Explorer
    - Search and navigation tool for casual users to access business data
    - No training required
    - Ability to search, explore and visualize massive data volumes via BWA
    - Smart visualization capabilities

- **Analysis, Edition for MS Office**
  - Covers all of the above directly within MS Office Excel & PowerPoint
Interoperability Between Analysis and Other Clients in 2010 based on BI 4.0

- Analysis is captured in a query object called analysis view that is shared between products in the SAP BusinessObjects suite (similar for the BEx query view in the BEx Suite).
- The analysis view captures the view on the data including filters and other features – it is stored in BO Enterprise.
- Analysis can create and consume the analysis view, The first clients who are able to consume it are CR & Web Intelligence. Each tool interprets the analysis view in a way that is consistent with its native environment.
Agenda

1. Overview for Analysis clients
2. **Product Details: SAP BusinessObjects Analysis, Edition for Microsoft Office**
4. Appendix
SAP BusinessObjects Analysis, edition for Microsoft Office

- MS Office Add-Ins that allow ad hoc multidimensional analysis of OLAP sources in MS Excel, intuitive creation of BI presentations with MS PowerPoint as well as Excel workbook-based application design.
- SAP BusinessObjects Analysis, edition for Microsoft Office will evolve into a fully-fledged productivity suite for MS Office by converging with SAP BusinessObjects Live Office

→ Premium Alternative to SAP BEx Analyzer
Step 1 (BI 4.0): SAP BusinessObjects Analysis Clients for SAP BW

Custom Analytic & Planning Apps
- BEx WAD
- Development & Test
- Analytical Experts
- Analytical question can be immediately pursued
- Optimized for highly analytically skilled business users

Explorational (OLAP) Analysis
- Analysis, edition (OLAP)
- Self-Service
- Web Intelligence
- Covers all of the above directly within MS Office Excel & PowerPoint

Self-Service Reporting & Analysis
- Web Intelligence
- MS Office
- Analysis Clients
- Limited layouting & formatting (consumer / prosumer)
- Interactive report creation
- Flexible formatted reports with built-in analysis features
- Ability to search, explore, and visualize massive data volumes via BWA
- Smart visualization capabilities

Instant Exploration
- Analysis, Edition for MS Office
- No training required
- Ability to search, explore, and visualize massive data volumes via BWA
- Smart visualization capabilities
Use Cases for Analysis, edition for MS Office

- Centralized creation of Analysis content (workbooks & PowerPoints)
- Sophisticated workbook design (VBA APIs and so on)
- Ad Hoc data access and data analysis, slicing & dicing, and so on, in Excel
- Ad Hoc embedding of BI data into PowerPoint presentations
- Consuming pre-defined BI content in Microsoft Excel and Microsoft PowerPoint

Power User / IT

Business Analyst

Business User & Task Worker

Note: the bigger the orange share, the more suitable the tool for the user segment
Analysis, Edition for MS Office
MS Excel Add-In with Query Panel
Analysis, Edition for MS Office MS PowerPoint Add-In
Analysis, Edition for MS Office Design Panel

- New Design Panel for easy navigation

- Views
  - Analysis: Allows navigation, filtering, and so on
  - Information:
    - General information on the embedded data source or the workbook itself (i.e. last data refresh, created by, and so on)
    - All relevant information (filters, variables, and so on) at one glance, in one place
  - Components: Structural information view either from the data source or the worksheet perspective

- Navigation
  - Simplified drag&drop within panel or into grid to filter, drill-down, slice&dice, replace, and so on
  - Finger-tip access to hierarchies
  - Access to display attributes
New options for the end-user
- Define conditional formatting (formerly “exceptions”)
- Define filter by measure (formerly “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
Analysis, Edition for MS Office
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 (cells with meta data retrieval formulas)
  - New APIs as Excel formulas
  - Add Excel-based charts
- Easy consumption of Workbooks created by Analysis, edition for MS Office
  - Add information on the data sources (name, last update, and so on)
  - Add information on the filter status
  - Integrate filter dialog
- Sharing Workbooks/PowerPoint files
  - Save workbook/ppt presentation in BusinessObjects Enterprise
Direct BW Connectivity via BI Consumer Services
- Connection management via BO Enterprise (optional)
- BOE repository services for workbooks and PowerPoint files

SAP Sources

- SAP NetWeaver BW 7.x (BEx Queries, views, InfoProviders)
- SAP NetWeaver BW Accelerator

BusinessObjects Enterprise Platform

- Connections
- Repository/InfoView
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 NetWeaver BW 7.0 or higher**
  - Recommendation: use BW 7.0 EHP1 or even 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.
- SAP Business Objects Enterprise (BOE) XI 3.1 (can run side-by side with SAP NetWeaver BW)
  - See next slide for information about platform capabilities
- Client Sizing: See SAP note 1466118

** Requirements may be higher for other clients

*Please note: these are preliminary statements . The statements remain to be finalized once Advanced Analysis, edition for MS Office becomes available.*
BOE is strategic BI platform for all SAP BusinessObjects Clients

**Analysis 1.0 on BOE XI 3.1**
- Central provisioning of BW connections
- Client-side Single-Sign On
- Saving and sharing workbooks centrally (common xls / ppt InfoObject)

**Analysis 1.1 (planned) on BO Enterprise 4.0 (as of begin of ramp-up for BI 4.0)**
- Support system-type connection
- Server-side and client-side Single-Sign On
- Saving and sharing workbooks centrally (common xls(x) / ppt(x) InfoObject)
- Lifecycle Management
- Interoperability with other clients: WebI, Crystal Reports and SAP BusinessObjects Analysis, edition for OLAP based on Analysis View

Although technically possible and good for testing purposes direct operation of the Office Add-In on BW without BOE is not recommended for productive usage (main services like central repository, interoperability, and so on are not supported)

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1. Overview for Analysis clients
3. **Product Details: SAP BusinessObjects Analysis, Edition for OLAP**
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SAP BusinessObjects Analysis, edition for OLAP

- As premium web-based OLAP analysis client for business analysts to run ad hoc OLAP analyses, and create OLAP workspaces for private usage or sharing with others
- SAP BusinessObjects Analysis, edition for OLAP completes SAP BusinessObjects’ client portfolio in the area of OLAP analysis and interoperates with offerings such as Web Intelligence & Crystal Reports
- The mid-term plan is to bring Web Intelligence and Analysis, edition for OLAP together into one harmonized user experience

→ Successor of SAP BusinessObjects Voyager
Step 1 (BI 4.0): SAP BusinessObjects Analysis Clients for SAP BW

Custom Analytic & Planning Apps

- BEx WAD
- Explorer
- Instant Exploration

Explorational (OLAP) Analysis

- Analysis, edition for OLAP
  - Data Analyst(s)
  - Analytical expertise
  - Analytical question can be immediately pursued
  - Optimized for highly interactive analysis
  - Limited layout & formatting

Self-Service Reporting & Analysis

- Web Intelligence
- IT / Developer for Task workers
- Purpose:
  - Built for BW
  - Based on apps for routine analytic & planning scenarios
  - BEx WAD runtime integrated into BOE, Publishing into InfoView
  - Optimized for highly interactive analysis
  - Limited layout & formatting
  - Interactive report creation
  - Flexible formatted reports with built-in analysis features
  - Ability to search, explore & visualize massive data volumes via BWA
  - Smart visualization capabilities

Instant Exploration

- Analysis, edition for MS Office
- Purpose:
  - Built for BW
  - Based on tools for MS Office
  - Covers all of the above directly within MS Office Excel & PowerPoint
  - MS Office Analysis Clients
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                                              - Purpose:
Use Cases for Analysis, Edition for OLAP within the family of analysis products

Web

Power User Analysis Tools
- Building OLAP & Planning Apps on BW
- Ad Hoc OLAP Analysis
- Interactive Reports & Analysis
- BEx WAD
- Analysis4OLAP
- WebI

Pre-Built and Explorational Analysis
- Active Consumption of Interactive reports
- Using OLAP & Planning Apps on BW
- Exploration
- WebI
- BEx WAD
- Explorer

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

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

Business User & Task Worker
- Can use pre-defined Web workspaces
- Need to operate between Advanced Analysis and more BI consumer tools like Web Intelligence or Explorer

Note: the bigger the orange share, the more suitable the tool for the user segment
Analysis, Edition for OLAP – Workspace with BW and MSAS Components
New options for the end-user

- Define conditional formatting (formerly “exceptions”)
- Define filter by measure (formerly “conditions”)
- Define simple and dynamic calculations
- Create custom calculations
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

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
Analysis, edition for OLAP

- Analysis, edition for OLAP leverages BOE platform services (LCM, persistency, authentication, and so on) and cannot be used without BOE.
- Server component for Analysis, edition for OLAP can be optionally installed on:
  - NW J2EE 7.1 or on
  - Any J2EE supported by BOE.
- Analysis workspaces & analysis views stored in BOE repository.

![Diagram of Analysis, Edition for OLAP High Level Architecture](https://example.com/diagram.png)
SAP BusinessObjects Analysis, Edition for OLAP – Prerequisites

- **Prerequisites**
  - **Browser**: MS Internet Explorer 7 and 8, Firefox 3.5, Adobe Acrobat 8 and 9, and Safari 4 for Apple Mac.
  - **SAP BusinessObjects Enterprise 4.0**
  - **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 BOE 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 MSAS connectivity**: MS Analysis Services 2005 SP1 and SP2; Microsoft Analysis Services 2008

**Aurora program requirements may be higher for other clients**

*Please note: these are preliminary statements. The statements remain to be finalized once Analysis, edition for OLAP becomes available.*
Roadmap for Enhanced Microsoft Analysis Services (MSAS) Support

- Major MSAS features already supported in first version of SAP BusinessObjects Analysis, edition for OLAP.
- Planned support of following MSAS features in the harmonized SAP BusinessObjects Analysis & Web Intelligence product
  - Server-based named sets
  - Dimension attributes (within hierarchies)
  - Actions
  - KPIs
  - Drill-Through (available in Voyager)

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Using of BEx Web Application Designer Templates in BO Enterprise/InfoView in BI 4.0

- Integration of SAP BEx Web Application Java runtime into SAP BusinessObjects Enterprise
- No additional SAP NetWeaver J2EE stack required
Integration into SAP NetWeaver Portal

- Integration of SAP BusinessObjects Enterprise 4.0 into SAP NetWeaver Portal 7.0
  - Integration with SBO Portal Integration Kit (PIK)
    - Document List Portlet displays complete BI launch pad (formerly InfoView)
    - Document Viewer iView displays all kind of single SBO reports (including Analysis, edition for OLAP). Analysis, edition for MS Office workbooks must be open via Document List Portlet
  - Administration
    - Document Viewer iView allows creation of Portal Roles with specific, pre-defined reports
    - Document List Portlet allows instant access to newly created ad hoc reports
  - Preferences
    - Users can change viewer type in their BOE preferences (e.g., thin vs. thick client for Crystal Reports)
  - Security
    - Single Sign-On is supported by identity propagation using SAP Logontickets
    - Single Sign-On ensures usage of Analysis Authorization of SAP NetWeaver BW
SAP Business Explorer (BEx)

- Maintenance
  - BEx 7.0 continues to be delivered with the next SAP NetWeaver BW releases. At this point in time, there's no planned end of life. The maintenance period is renewed with every major BW release.
  - BEx 3.5 is part of BW 3.5/SAP NetWeaver 04 and the maintenance cycle is coupled to this release (see SAP note 1410878). As BEx 3.5 is also compatible with a BW 7.0 backend and had been delivered with BW 7.0, SAP will maintain BEx 3.5 functionality within BW 7.0 and subsequent releases until the end of BW 7.0 maintenance cycle. Maintenance is NOT extended with BW 7.30 or other future releases. Note that full PAM support of BEx 3.5 cannot be granted by SAP – as Microsoft has removed, e.g., support for some components within Windows 7 that had been used by BEx Web Application Designer 3.5.
  - Also see: [https://www.sdn.sap.com/irj/sdn/bex](https://www.sdn.sap.com/irj/sdn/bex)