SAP BusinessObjects BI4.2 SP04 What's new

Version 1.0 April 20, 2017



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About this presentation

Target audience

- Intended to be a detail-level product overview of what is new in 4.2 SP04
- Assumes some knowledge of BI 4.2 suite and features

Scope of the presentation

- Detail-level feature overview of what is new in 4.2 SP04 For more detailed information and features in each area, refer to:
 - What's New in 4.2
 - What's New in 4.1
 - Product Road Map documents

Previous What's New for BI4.2 Information

- What's New in BI4.2 Cumulative Deck
- What's New for BI4.2 LO
- What's New for BI4.2 L1
- What's New for BI4.2 L2
- What's New for BI4.2 SP03
- SAP BusinessObjects What's New Collection

Latest What's New for BI4.2 SP04

The latest version of What's New for BI4.2 SP04 can be found via:

<PLACEHOLDER>

SAP BusinessObjects What's New Collection:

https://blogs.sap.com/2014/11/24/sap-businessobjects-whats-new-collection/

SAP BusinessObjects Analytics portfolio



Mobile First

Stunning interactive experience



Lead the Cloud

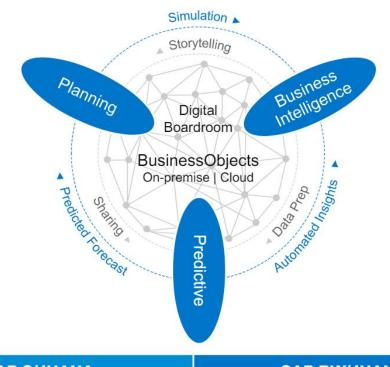
Deliver new analytics capabilities, built natively on HCP



Interoperability and Support for Hybrid Scenarios







SAP S/4HANA Embedded Analytics SAP BW/4HANA
Integrated Data Warehousing

SAP HANA PLATFORM

Real-time Platform | Advanced Analytics | Smart Data Integration

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SAP BusinessObjects Business Intelligence platform 4.2 delivers **innovations** that **simplify**, **enhance**, and **extend** the platform value without disrupting existing customer investments.

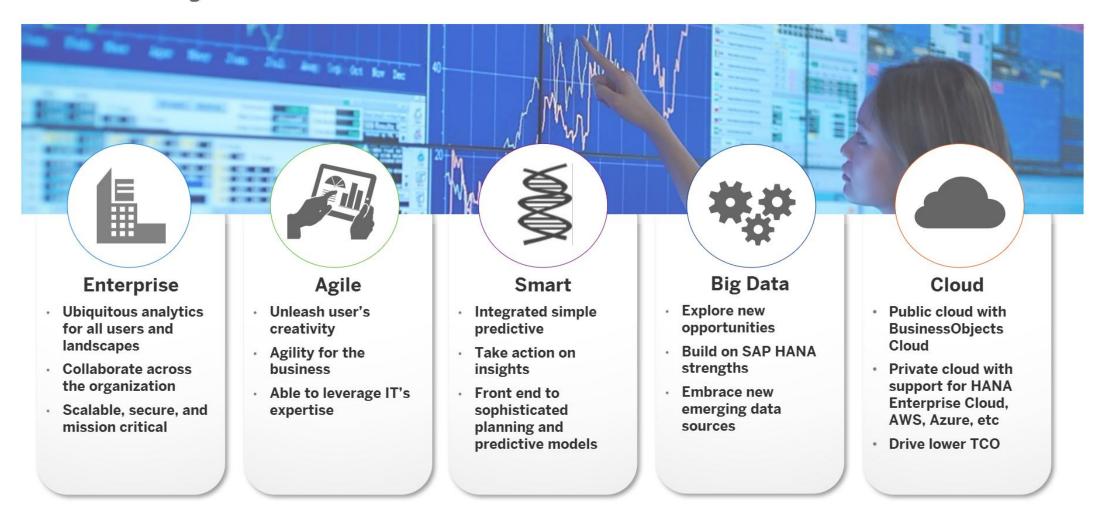
BI 4.2 SP04 offers advancements for all, including designers and analysts using Web Intelligence, Crystal Reports and SAP Lumira 2.0, IT administrators responsible for managing and optimizing the platform, ecosystem and development partners looking to extend the value and capabilities of the integrated BI Platform.

These innovations are designed to increase responsiveness, reduce costs and workload, and drive better decision making across the organization.



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SAP BI Key Investment Areas



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Enterprise - Vision & Strategy

Ubiquitous, collaborative, scalable



Enterprise

- Ubiquitous
- Collaborative
- Scalable

Ubiquitous BI for all users and landscapes

- · BI on mobile, cloud, on-premise
- Ready for global operation
- Flexible access to Enterprise governed data

Collaborate across the organization

- · For anyone across the organization individuals, teams, or department
- Active sharing and collaborative decision making
- Consistent and engaging experience

Scalable

- Scalable, secure, and mission critical
- · Open platform to extend and embed
- For any size business, deployment, or organization

Agile Visualization - Vision & Strategy

Agility for the business



Agile Visualization

- Creative
- Agile
- IT Friendly

Unleash user's creativity

- Unlock hidden patterns in data
- Build beautiful, custom visualizations and stories
- Bring together corporate and personal data

Agility for the business

- Download and use quickly no IT involvement needed
- Access and work with almost any data source independently
- Personal edition for free both desktop and cloud

Able to leverage IT's expertise

- · Connect back to, and leverage, IT infrastructure
- View, publish and synchronize desktop data and visualizations from SAP Lumira™, fully leveraging SAP HANA
- Optimized for big data

Smart - Vision & Strategy

Predict and Act!



Smart

- Integrated predictive
- Take action on insights
- Front end to sophisticated planning and predictive models

Increase ROI, Minimize TCO

- · Gain the competitive advantage; Get up and running quickly, low learning curve
- Predict to solve difficult business problems
- Application in every industry or Line of Business
- Intuitive for business users, yet robust enough for data scientists

Predict and act faster then ever before

- Predictive solutions built to leverage big data and SAP HANA in-memory platform
- Open and extendable leverage custom code or 1,000's of open source predictive workflows

Deploy Predictive solutions anywhere, anytime

- Leverage existing data sources, from local to the enterprise data warehouse
- Share predictive insights easily within your LOB or with the entire enterprise
- Integration with SAP HANA-based applications and LOB solutions

Big Data Analytics - Vision & Strategy

Real-Time Insight with Big Data



Big Data

- Explore
- Speed
- More Data

Explore new opportunities

- Leverage more data to have a comprehensive view of their business by analyzing previously discarded data
- Agile data preparation on big data sources brings Hadoop to the business user.
- Expand the 5 V's of Big Data (Volume, Velocity, Veracity, Variety & Velocity) with a 6th— Visualize
- Capitalize on Gartner's prediction of Big Data Discovery by focusing on interoperability with Predictive Analytics
- Big data analytics on Hadoop alone, or combined with HANA to leverage in-memory capabilities for real-time analytics
- The "whole suite" benefit, from data services thru to SAP HANA, IQ, the BI Suite

Embrace new emerging data sources

- SQL-like access via JDBC drivers offer opportunities to embrace emerging big data sources with existing investments
- Extend the support to big data sources based on their technical maturity and market demand with the universe SDK & SAP Lumira's open access SDK being available for sources not supported out of the box
- Tailored user experiences depending on the datasource, makes it easier for end users to navigate structured or semi-structured sources (Graph, NoSQL, etc.)

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Cloud - Vision & Strategy

Exceed Your Business Expectations



Cloud

- Simple
- Fast
- Flexible

Faster and more accurate decisions

- SAP BusinessObjects Cloud: a complete Saas Analytics solution built on the SAP HANA Cloud Platform
- Leverage on-premise pre-aggregated data anywhere, anytime and on any device
- View, publish and synchronize desktop data and visualizations from SAP Lumira, fully leveraging SAP HANA

Broaden deployment options

- SAP HANA Enterprise Cloud
- Amazon Web Services, Microsoft Azure, IBM Softlayer, Alibaba YSF
- Partner Solutions; Your own hosted environment

Drive lower TCO

- Turn-key BI Packages
- Multi-tenant private and public cloud support

SAP BusinessObjects Solutions and Strategy







SAP BusinessObjects Roambi

SAP BusinessObjects Cloud and SAP Digital Boardroom

All analytics capabilities in one product

Consumer-grade user experience

Embedded and standalone

High-performance, real-time platform

SAP BusinessObjects Enterprise

BI

- SAP BusinessObjects BI 4.2, Mobile BI
- Lumira, Design Studio, Analysis for Office, Webi, Crystal Reports

Planning

- SAP BusinessObjects Planning and Consolidation 10.1
- + other solutions

Predictive

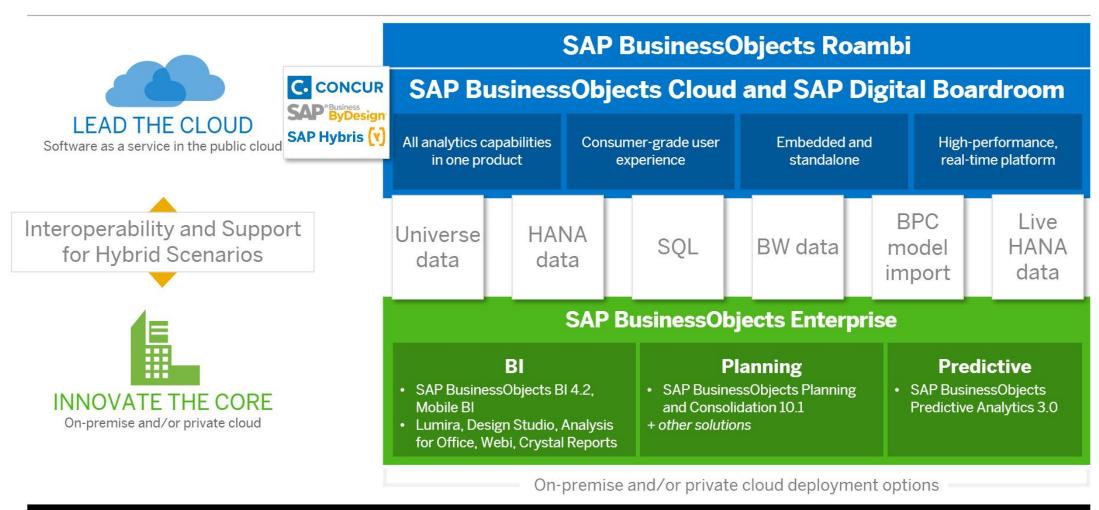
 SAP BusinessObjects Predictive Analytics 3.0

On-premise and/or private cloud deployment options

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Building Bridges



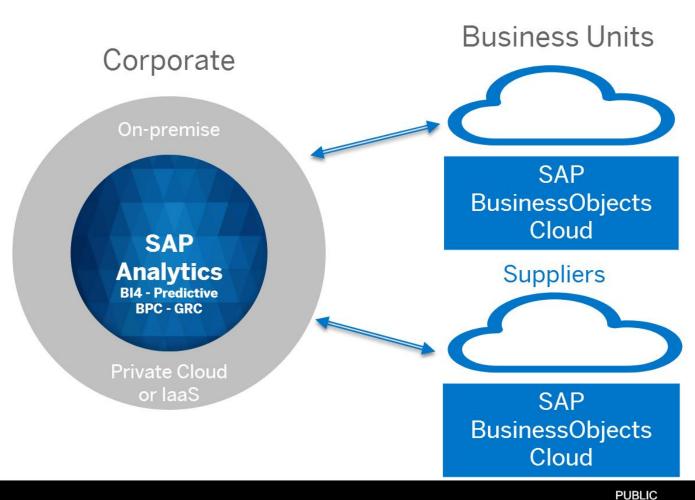
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Hybrid: SAP BusinessObjects Cloud + BI

Leverage on-premise data sources for hybrid scenarios

Integrate data from cloud applications



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Convergence Principles



Focus on Use Cases



Continue to support all BI4.x content



Continue to support all BI4.x clients



No forced migrations

Convergence Result

Planned as of H1 2017

SAP BusinessObjects Lumira

SAP BusinessObjects Explorer

SAP BusinessObjects Analysis for OLAP

SAP BusinessObjects Design Studio

SAP BEX Web Application Designer

SAP BusinessObjects Dashboards

SAP BusinessObjects Analysis Office

Live Office

EPM Add-In

SAP BEX Analyzer

SAP Crystal Reports

SAP BusinessObjects Web Intelligence

SAP BusinessObjects Set Analysis

Desktop Intelligence

Lumira 2.x

Data Discovery& Applications

Analysis Office

Office Integration

Crystal Reports
Web Intelligence



- Retain simple, business user focused desktop tool & IT focused enterprise dashboard tool
- ✓ Promote business user visualizations to enterprise dashboards
- ✓ Changing requirements doesn't need a tool switch
- ✓ Support for offline applications in designer

- ✓ Combined server side add-on reduces IT administration cost
- Improved ease of use & adoption with single canvas for both visualization and storyboard authoring.
- ✓ Align with S/4 UI standard

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nteroperability

SAP BusinessObjects BI 4.2 Themes





- Reduced downtime for patch upgrade
- Improved upgrade process
- Remove upgrade barriers
- Improved collaboration experience



O Enhance

- Platform & client enhancements
- SAP BW and SAP HANA enhancements



O Innovate

- Innovation in platform and clients
- New Platform support
- Customization, developer experience

QUALITY

SAP BusinessObjects BI4.2 SP04 Top 5

Fiori Styled Launchpad CMS Database Driver

Webl DHTML Catch Up Exclusive Server Group At Runtime Web Intelligence Unified Viewer

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BI Platform

BI4.2 SP04 What's New



SAP BusinessObjects BI 4.2 SP04 - Platform

O Simplification for IT

- Server Group Exclusivity
- Virus Scan Integration
- openSSL updates
- X.509 Authentication
- Security Updates
- Rest Web Services

O Enhancements for BI Administration

- Fiori Styled BI Launchpad
- NetWeaver Enterprise Portal
- HANA SAML Test Connection
- User Account Status
- Document Instances
- Inbox Limit number of documents
- CMS DB Driver

O Performance

- Search Enhancements
- Promotion Management
- Upgrade Management
- Installer

SAP BusinessObjects BI 4.2 SP04 - Platform

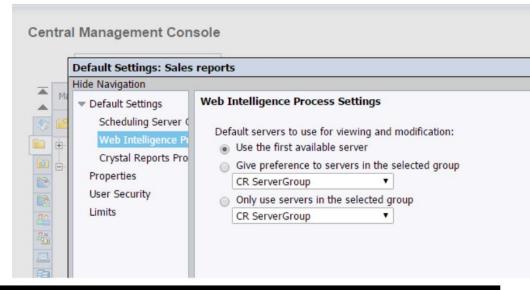
O SIMPLIFICATION for IT

Server Group Exclusivity (1)

Enhanced with

- Assignment at Folder level for scheduling
- Assignment at Usergroup for viewing Crystal Reports
- Assignment at Usergroup for viewing Web Intelligence
- Assignment at Folder level for viewing Crystal Reports
- Assignment at Folder level for viewing Web Intelligence





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SAP BusinessObjects BI 4.2 SP04 - Platform

O SIMPLIFICATION for IT

Server Group Exclusivity (2)

- With the ServerGroup Exclusivity, it allows to isolate a UserGroup to dedicated resources and hence ensure server availability.
- Offer a lot more flexibility to a BI Administrator.
- Greatly speed up the configuration of a BI system, because previously only possibility was to associate ServerGroups on the report level. Now with new implementation ServerGroup could be associated with Folders as well and for On Demand runtime requests in Web Intelligence and Crystal Reports.

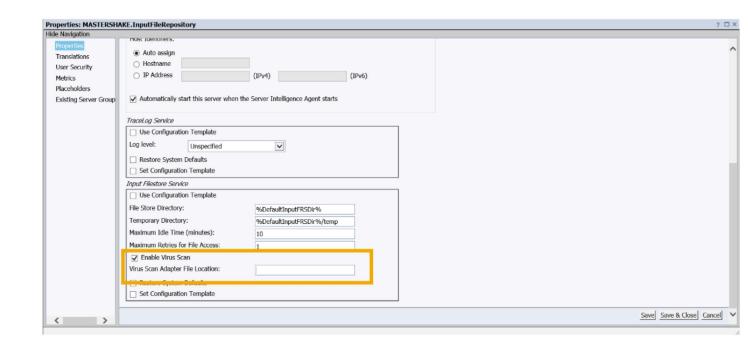
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O SIMPLIFICATION for IT

Virus Scan Integration

- Support the scan of all files committed to the File Repository for viruses
- Directory input of Virus Scan adaptor



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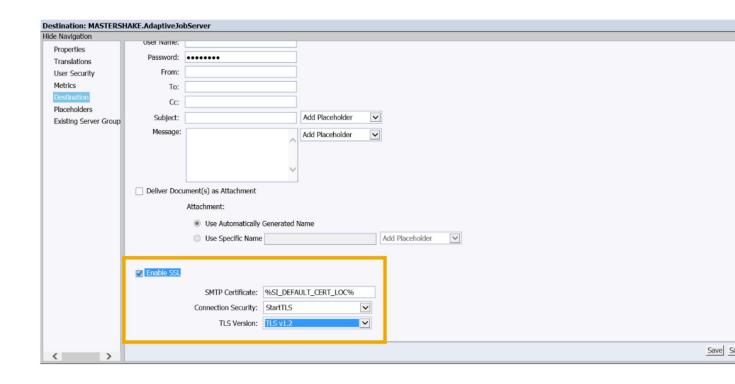
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O SIMPLIFICATION for IT

openSSL updates

openSSL enhanced with

- Support for TLS 1.2
- Support for TLS configuration
- Support for TLS Certificate
- Included for SMTP Configuration in Adaptive Job Server Destinations



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O SIMPLIFICATION for IT

X.509 Authentication

Authentication enhanced with 2 Factor Authentication

- BI Platform enabled clients to support 2 Factor Authentication (2FA) in combination with SLC and SLS for
- Supported for BI 4.2 SP04 Thin Clients (CMC, BILP)
- Supported for RESTFul Web Services
- Supported for SOAP Web Services
- Supported for SSO

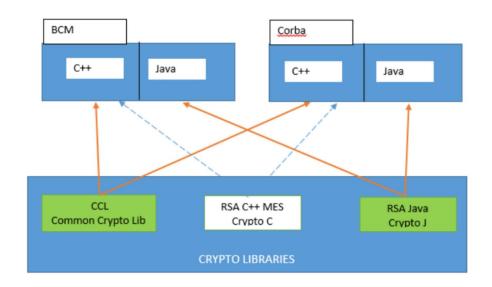
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O SIMPLIFICATION for IT

Security Updates (1)

RSA Security enhancements

- RSA Updates
 - RSA Replaced with SAP Crypto (CCL lib) for C++ areas
 - Upgrade from RSA 4.1 to 6.2.1 for JAVA areas
 - Latest Cipher Suits included
 - Minimum Key strength updated to 2048
 - TLS 1.2 and 1.1
 - Deprecation of SSLV3



SAP BusinessObjects BI 4.2 SP04 - Platform

O SIMPLIFICATION for IT

Security Updates (2)

Security enhanced with

- VSU Updates
 - Updated BUILD environment for BI Platform to support the latest development standards
 - Updated .NET Framework and removal of .NET 1.1 and .NET 2.0

SAP BusinessObjects BI 4.2 SP04 - Platform

O Enhancements for BI Administration

Fiori Styled BI Launchpad* (1)

Rejuvenated BI Launchpad for end users

- Optional Fiori styled BI Launchpad to drive improved experience for end users
- Choice for Tile, List of Folder view
- Developed using SAP UI5 / HTML5

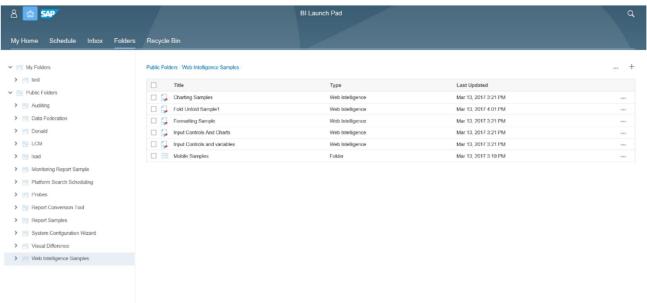
* This is a first release with limited functionality, further enhancements planned for sub sequential Support Packages

SAP BusinessObjects BI 4.2 SP04 - Platform

O Enhancements for BI Administration

Fiori Styled BI Launchpad* (2)

Rejuvenated BI Launchpad for end users



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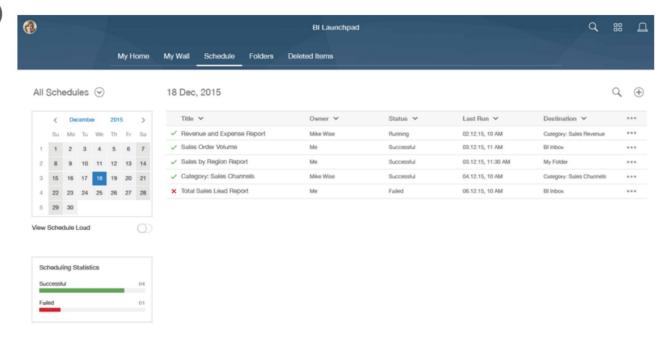
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O Enhancements for BI Administration

Fiori Styled BI Launchpad* (3)

Enhanced Scheduling experience

- Quick overview of your schedules
- Filter on successful or failed
- Select schedules by date
- Create basic schedules



* This is a first release with limited functionality, further enhancements planned for sub sequential Support Packages

SAP BusinessObjects BI 4.2 SP04 - Platform

O Enhancements for BI Administration

Fiori Styled BI Launchpad* (4)

Known Limitations

- Only basic schedule capabilities available in this version.
- Create/edit of hyperlinks is not possible
- Cannot Sort, filter or resize columns
- Cannot Subscribe/unsubscribe to alerts
- Cannot open a folder using opendoc url
- Customization and Personalization is not supported.
- No support for BI Workspace, or SAP JAM Integration
- Error Messages are generic in a few workflows

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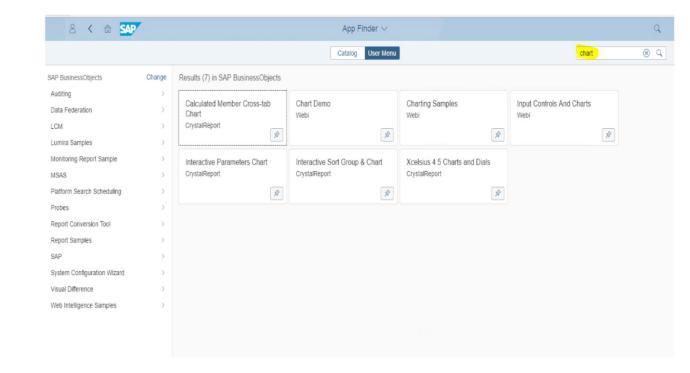
SAP BusinessObjects BI 4.2 SP04 - Platform

O Enhancements for BI Administration

NetWeaver Enterprise Portal

Enhanced with

- Supported for NetWeaver 7.50 SP07+
- Fiori Launchpad 1.38 or 1.44
- Web Dispatcher 7.49
- Configuring Active Directory Manual Authentication / SSO Active Directory Manual Authentication / SSO configured
- Servers network name resolution should be verified, either using a DNS or hosts file configuration



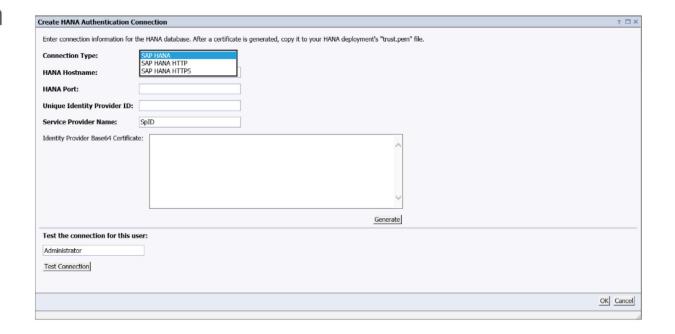
SAP BusinessObjects BI 4.2 SP04 - Platform

O Enhancements for BI Administration

HANA SAML Test connection

Enhanced with

 Test Connection function on HANA Authentication Connection



SAP BusinessObjects BI 4.2 SP04 - Platform

O Enhancements for BI Administration

User Account Status

New column in User List to gain quick insight of account status of user



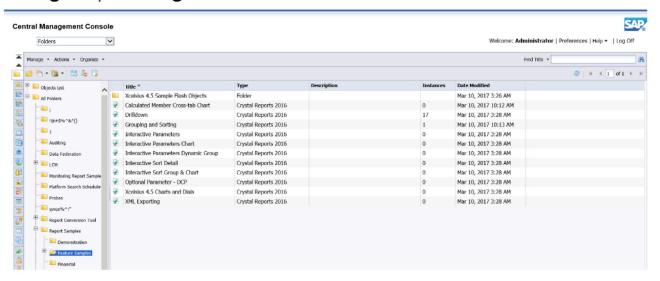
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O Enhancements for BI Administration

Instances Count

New column in Folders to gain quick insight of number of instances attached to a document



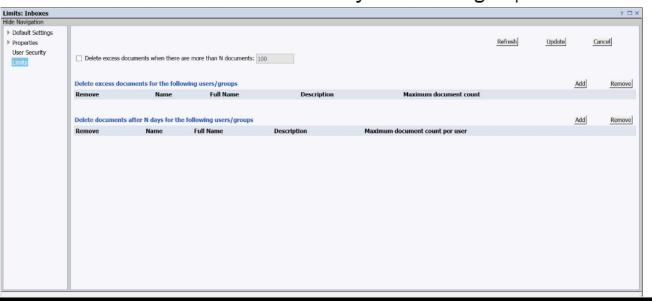
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O Enhancements for BI Administration

Limit number of documents in Inbox

Setting added for Inboxes to limit the number of documents by user or usergroup



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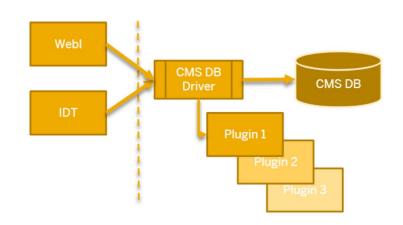
SAP BusinessObjects BI 4.2 SP04 - Platform

O Enhancements for BI Administration

CMS DB Driver

Enhanced with

- Universe and Sample Web Intelligence documents part of setup
- Documentation
- New AccessLevels Plugin allowing the retrieval of all rights defined in custom access levels



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SAP BusinessObjects BI 4.2 SP04 - Platform

O Performance

Search

Enhanced with

- Reduced CMS Recourse consumption
 - Fewer queries
 - Fewer InfoObjects updates
 - Fewer IO calls
- Reduced index size (disk)
- Improved Indexing Performance
 - Up to 200 times performance improvements
 Internal system full index reduced from 49 hours to 14 minutes

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SAP BusinessObjects BI 4.2 SP04 - Platform

O Performance

Search (2)

Performance improvements include

- Bypass queues for metadata only indexing
 - driving up to 100x faster indexing
- Faster InfoObject ancestor path computation
 - Using fewer CMS queries and more caching driving up to 2x faster indexing
- Faster Content Store readiness notification
 - Last done store object notifies readiness (instead of background thread)

SAP BusinessObjects BI 4.2 SP04 - Platform

O Performance

Search (3)

Enhanced with

- New Search experience via Fiori Styled BI Launchpad
- Support for new metadata formats such as user full name

SAP BusinessObjects BI 4.2 SP04 - Platform

O Performance

Promotion Management (1)

Enhanced with

- UI Improvements
 - Free entry for adding system at Job creation
 - Special Character handling in Job name
- Further improved performance for Dependencies management
- Improved error handling





SAP BusinessObjects BI 4.2 SP04 - Platform

O Performance

Promotion Management (2)

Enhanced with

- Command Line (CLI) Improvements
 - Clean up of parameters and improved documentation
 - Added selectUser and selectGroup to improve selection for Third Party Users and UserGroups
 - Support for new objects such as Lumira 2.0, bookmarks of Lumira 2.0 and Server Groups

```
exportQuery1=
SELECT TOP 10000 static, relationships, SI_PARENT_FOLDER_CUID,
SI_OWNER, SI_PATH
FROM CI_INFOOBJECTS,CI_APPOBJECTS,CI_SYSTEMOBJECTS
WHERE (SI_KIND='User' OR SI_KIND='UserGroup') AND NOT (SI_ID in (11,12, 501, 1, 2, 3))
# selectUser selectGroup parameters
# all: all users will be included (DEFAULT)
# onlyTP: only third party users/groups will be included
# excludeTP: third party users/groups won't be included
# none:
selectUser=all
selectGroup=all
```

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SAP BusinessObjects BI 4.2 SP04 - Platform

O Performance

Promotion Management (3)

Enhanced with

Visual Difference

⊕ Web Intelligence Samples

- Command Line (CLI) Improvements
 - batchJobQuery parameter enabling multiple smaller queries to run a a single job reducing load and increase success rate

```
Auditing

Data Federation

Platform Search Scheduling

Probes

Report Conversion Tool

Report Samples

System Configuration Wizard

12 folders

1 Properties File

12 Promotion Jobs
```

```
batchJobQuery=

SELECT SI_ID, SI_CUID, SI_NAME

FROM CI_INFOOBJECTS,CI_APPOBJECTS,CI_SYSTEMOBJECTS
WHERE DESCENDENTS("SI_NAME='Folder Hierarchy'",

"SI_ID in (23)") AND SI_KIND='Folder' and
SI_PARENTID=0

exportQuery1=
SELECT TOP 10000 static, relationships,
SI_PARENT_FOLDER_CUID, SI_OWNER, SI_PATH
FROM CI_INFOOBJECTS,CI_APPOBJECTS,CI_SYSTEMOBJECTS
WHERE DESCENDENTS("SI_NAME='Folder Hierarchy'",
"SI_CUID='$CUID$'")
```

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O Performance

Upgrade Management Tool

Enhanced with

- Splash screen added to provide information to user
- Removal of libraries that are not needed at startup time

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SAP BusinessObjects BI 4.2 SP04 - Platform

O Performance

Installer

Enhanced with

- Combine Installer
 - Ability to combine installer of Support Package and Patch into a single package
 - Reduce installed time if there is a need to deploy Support Package + Patch
- Support for special characters in Administrator password during install
- Support for SAP MaxDB for CMS and Audit Schema



Web Intelligence

BI4.2 SP04 What's New



SAP BusinessObjects BI 4.2 SP04 - Web Intelligence

O Trusted Foundation

- Custom Elements
 Enhancements
- Security Enhancements
- Server Group Enhancements
- Calculation Extensions
- REST Web Services
- Mass change of UNV to UNX

O Enable the Business

- Rejuvenated Interface (Viewer)
- DHTLM Catch-Up
- Enhanced Chart Library
- References Enhancements
- Variables Enhancements
- Grouping Enhancements
- New and Enhanced Functions
- BI Variants Enhancements

O SAP Backend Integration

- SAP HANA HTTP Support
- Complex selection support for BEx Variables

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

SAP BusinessObjects BI 4.2 SP04 - Web Intelligence

O TRUSTED FOUNDATION

Custom Elements Enhancements

Enhanced with

- Enhanced API's
 - New API to define Custom Elements visualization thumbnails
 - Extended the Render API to identify Custom Element instances
- Extend Custom Elements with Extension Points
 - BIP CMC: Deploy Custom Elements service as a Extension Point
 - Use Extension Points API's from Custom Elements
 - Full interactivity between Custom Element visualizations and Extension Points in Web Intelligence DHML Client

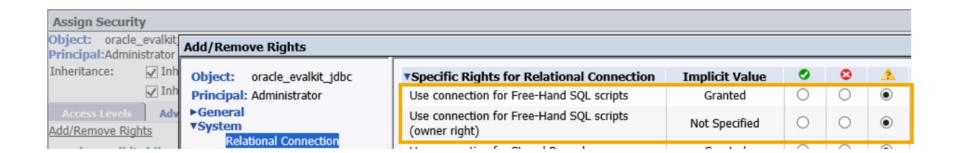


SAP BusinessObjects BI 4.2 SP04 - Web Intelligence

O TRUSTED FOUNDATION

Security Enhancements

Added security settings for consuming relational connections with FHSQL



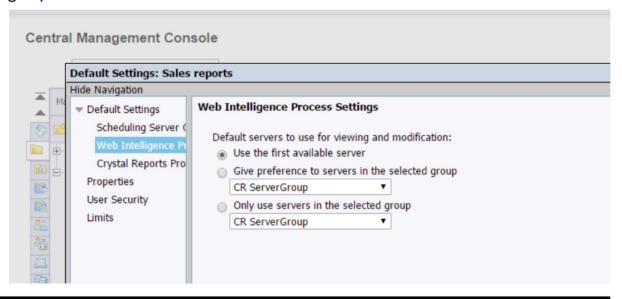
SAP BusinessObjects BI 4.2 SP04 - Web Intelligence

O TRUSTED FOUNDATION

Server Group Enhancements

Web Intelligence Processing Server Enhanced with

- Support for Server Group Exclusivity while refreshing reports on demand
 - On User / Usergroup level
 - On Folder level



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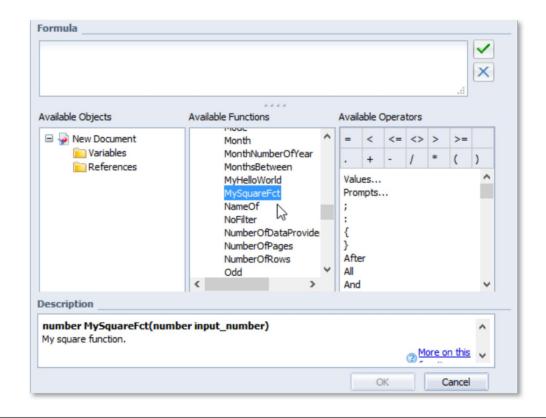
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Calculation Extensions

Extend the Web Intelligence Calculation Engine

- Enablement for Custom Functions
 - Visual Studio 2015 project with samples provided
 - Updated User Guide



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SAP BusinessObjects BI 4.2 SP04 - Web Intelligence

O TRUSTED FOUNDATION

Web Intelligence REST Web Services

Enhanced with

- Dynamic Input Control / Group Input Control
- Read Comments
- Support Fold-Unfold Section, Break, Axis, Block
- Return parameters/prompts summary
- Element Linking (support block as input control)
- For SAP HANA data sources: Multiple Ranges, Interval variables

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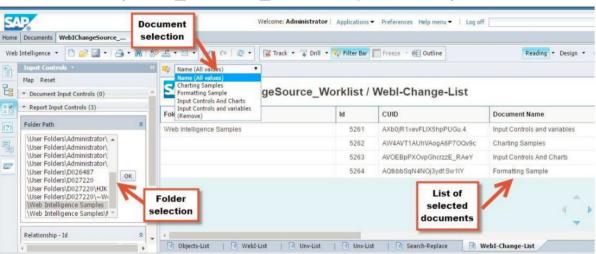
SAP BusinessObjects BI 4.2 SP04 - Web Intelligence

O TRUSTED FOUNDATION

Mass change of UNV to UNX

Sample solution provided to drive mass adoption of UNX universe

- With BI 4.2 SP4 you can massively change the source of Web Intelligence documents from UNV to UNX universes
- The solution is provided as a .biar file in the BI platform server (\$BOE_INSTALL_DIR\$\Samples\WICS\)
- Solution provided as unsupported SAMPLE



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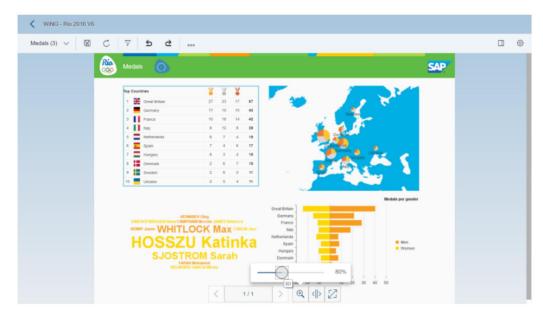
SAP BusinessObjects BI 4.2 SP04 - Web Intelligence

O Enable the Business

Rejuvenated Interface for viewing Web Intelligence documents* (1)

Enhanced end user experience

- Simplified reading and analysis workflow
- FIORI styled Web Intelligence viewer
- Integrated in FIORI BI Launchpad
- Touch Screen ready



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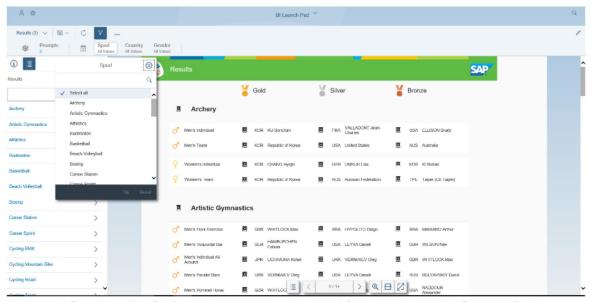
SAP BusinessObjects BI 4.2 SP04 - Web Intelligence

O Enable the Business

Rejuvenated Interface for viewing Web Intelligence documents* (2)

Viewer support for

- All existing Web Intelligence documents*
- Navigation by report, section or page
- Refresh any existing Webl document
- Drill if saved in Drill Mode
- Collapse / Expand Hierarchies
- Save As, Export as PDF, Export as Excel
- Send to



^{*} This is a first release with limited functionality, further enhancements planned for sub sequential Support Packages

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SAP BusinessObjects BI 4.2 SP04 - Web Intelligence

O Enable the Business

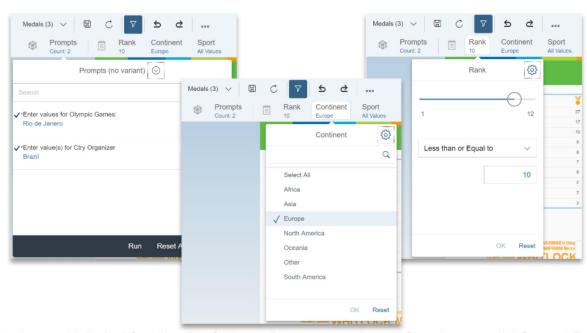
Rejuvenated Interface for viewing Web Intelligence documents* (3)

Viewer support for

Unified Toolbar and Icons

Refresh Reports with Prompts

 Aggregated Filters Bar for Prompts, (Group) Input Controls, Filters and Ranking



* This is a first release with limited functionality, further enhancements planned for sub sequential Support Packages

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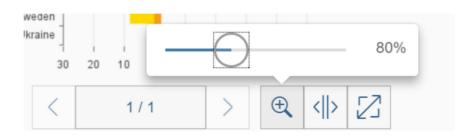
SAP BusinessObjects BI 4.2 SP04 - Web Intelligence

O Enable the Business

Rejuvenated Interface for viewing Web Intelligence documents* (4)

Viewer support for

- Display, Edit, Insert Comments
- Fading Navigation / Zoom Bar





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SAP BusinessObjects BI 4.2 SP04 - Web Intelligence

O Enable the Business

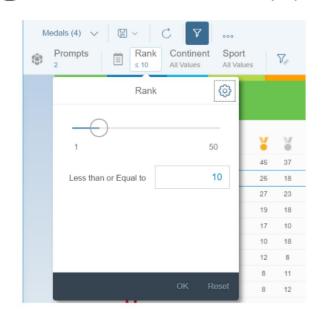
Rejuvenated Interface for viewing Web Intelligence documents* (5)

Viewer support for

"Action in Place" such as Sort and Ranking

Element Linking





^{*} This is a first release with limited functionality, further enhancements planned for sub sequential Support Packages

SAP BusinessObjects BI 4.2 SP04 - Web Intelligence

O Enable the Business

Rejuvenated Interface for viewing Web Intelligence documents* (6)

Viewer Known Limitations

- Create / Reply on Comments
- Fold/ Unfold Breaks and Sections
- Freeze Header
- Create / Edit Web Intelligence Document (edit will trigger existing Web Intelligence Designer Mode)

* This is a first release with limited functionality, further enhancements planned for sub sequential Support Packages

SAP BusinessObjects BI 4.2 SP04 - Web Intelligence

O Enable the Business

DHTML Catch-Up (1)*

Enabling all users

- Remove dependency on Java Applet
- Enable all supported browsers for Editing with full functionality
- All new Web Intelligence Features by default in both JAVA and DHTML

* 1st phase started with BI4.2 SP03, Final completion planned for subsequent Support Packs

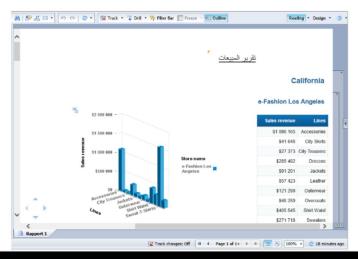
SAP BusinessObjects BI 4.2 SP04 - Web Intelligence

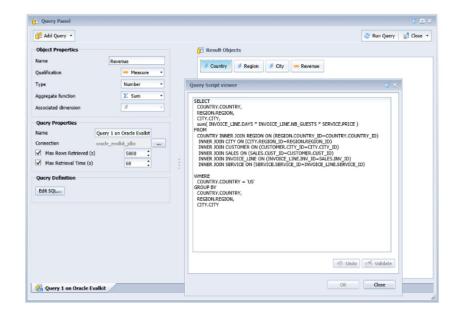
O Enable the Business

DHTML Catch-Up (2)*

Web Intelligence DHTML Client enhanced with

- Free-Hand SQL Editor
- Right to Left (RTL) Language support





st 1st phase for BI4.2 SP03, Final completion planned for subsequent Support Pack

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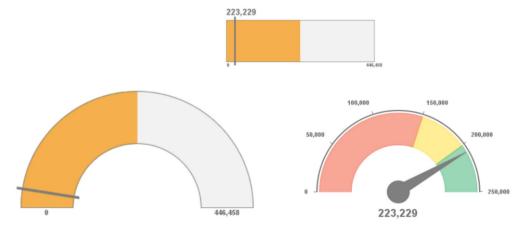
SAP BusinessObjects BI 4.2 SP04 - Web Intelligence

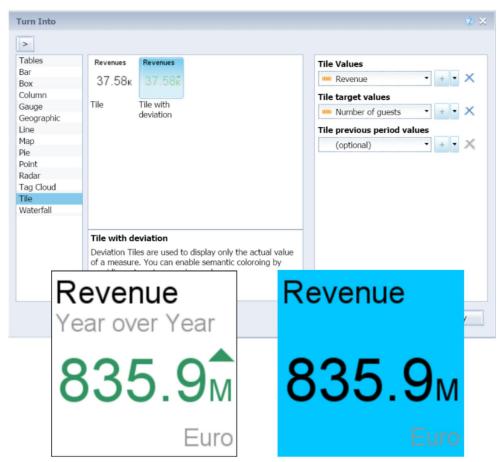
O Enable the Business

Enhanced Chart Library (1)

Added to the Chart Library

- Gauges: Lineao, Speedometer and Angular
- Tiles for KPI display





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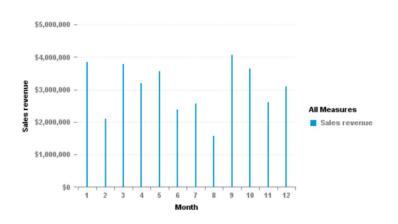
SAP BusinessObjects BI 4.2 SP04 - Web Intelligence

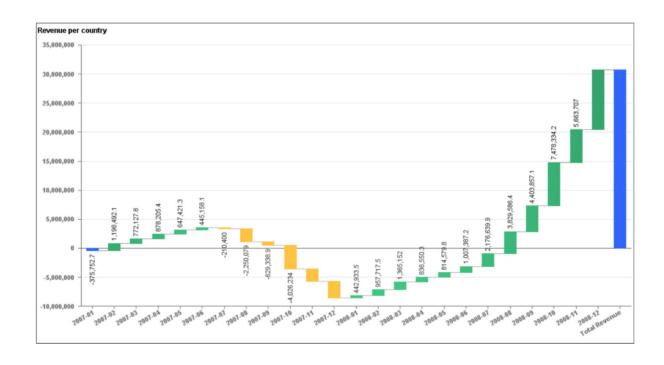
O Enable the Business

Enhanced Chart Library (2)

Enhanced charts

- Modify "Total Value" Label for Waterfall Chart
- Set Width for Bar and Column Charts





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SAP BusinessObjects BI 4.2 SP04 - Web Intelligence

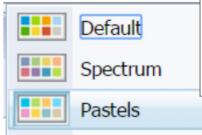
Enable the Business

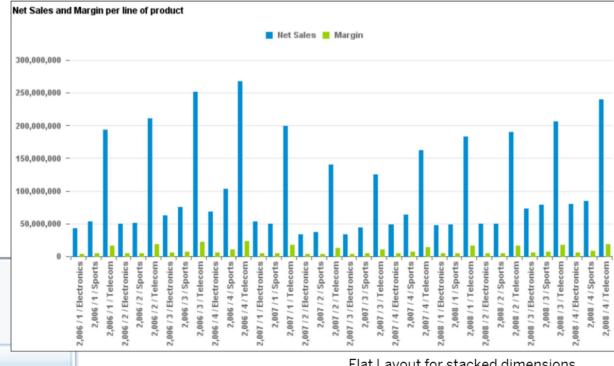
Enhanced Chart Library (3)

Enhanced charts

- Change Color of each data label
- Pastels Color pallet added
- Stacked dimensions to be displayed as tree, flat or grid







Flat Layout for stacked dimensions

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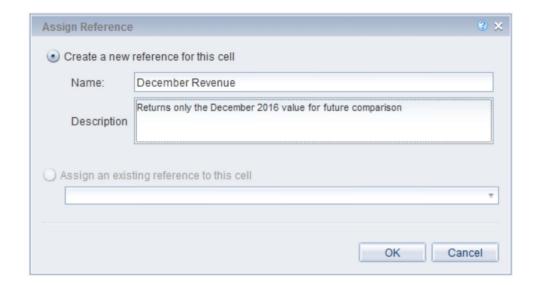
SAP BusinessObjects BI 4.2 SP04 - Web Intelligence

O Enable the Business

References Enhancements

References values enhanced with

Description Field



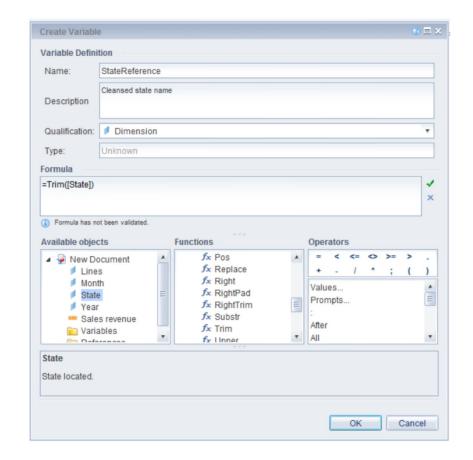
SAP BusinessObjects BI 4.2 SP04 - Web Intelligence

O Enable the Business

Variables Enhancements

Variables enhanced with

Description Field



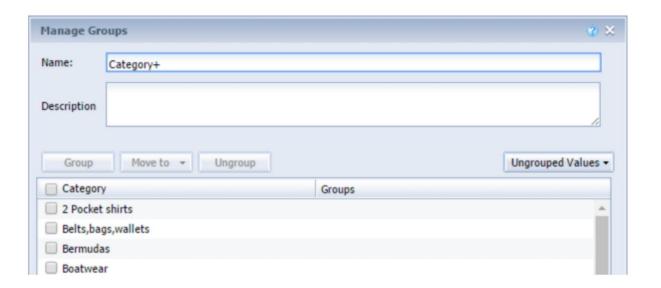
SAP BusinessObjects BI 4.2 SP04 - Web Intelligence

O Enable the Business

Grouping Enhancements

Grouping Values enhanced with

Description Field



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SAP BusinessObjects BI 4.2 SP04 - Web Intelligence

O Enable the Business

New and Enhanced Functions

Functions list enriched / enhanced with

- TimeBetween()
- DateBetween()
- PromptSummary()
 New parameters to sort the result and show BEx definitive prompts

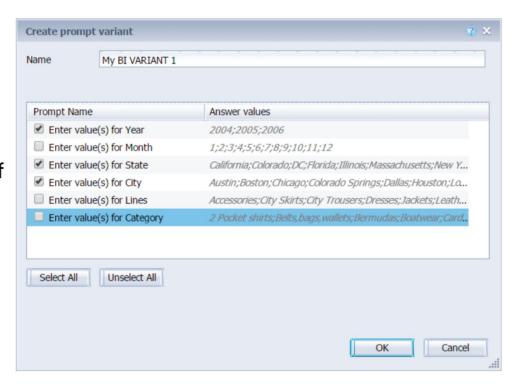
SAP BusinessObjects BI 4.2 SP04 - Web Intelligence

O Enable the Business

BI Variants Enhancements

BI Variants enhanced with

 Select the prompts answer saved in BI Variant You can now exclude some prompts to be part of the BI Variant

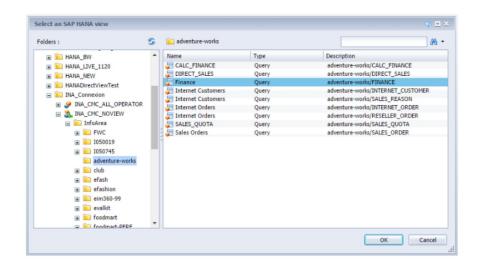


SAP BusinessObjects BI 4.2 SP04 - Web Intelligence

O SAP Backend Integration

SAP HANA HTTP Support

- Multi-dimensional support with HANA hierarchies
- Support for the Direct Access on HANA HTTP
- Support for authored universes based on HANA HTTP

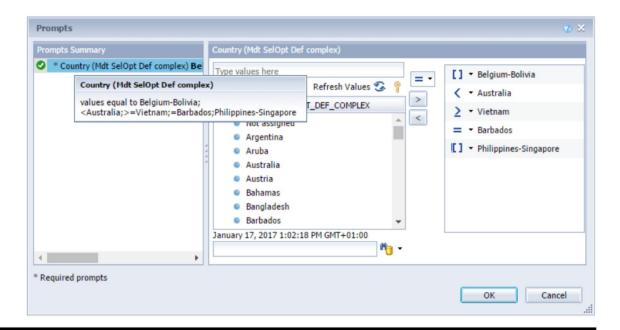


SAP BusinessObjects BI 4.2 SP04 - Web Intelligence

O SAP Backend Integration

Complex selection support on BEx variables for SAP BW

- Enablement of complex selection on BEx Variables on SAP BW
- Parity to SAP HANA support



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Semantic Layer

BI4.2 SP04 What's New



SAP BusinessObjects BI 4.2 SP04 - Semantic Layer

O Simplification

- CMS Access Enhancements
- Check Integrity Enhancements
- REST Web Services

O Enable the Business

Set Analysis Enhancements

O SAP Backend Integration

SAP HANA Enhancements

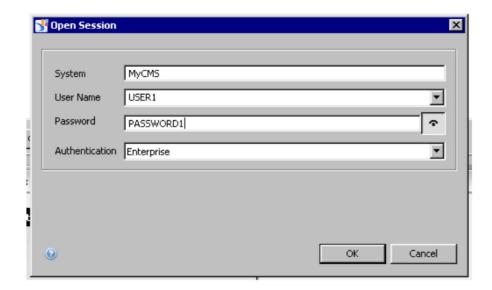
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SAP BusinessObjects BI 4.2 SP04 - Semantic Layer

O TRUSTED FOUNDATION

CMS Access

- Republish Universe
- Show Password
- Copy Paste "System" name

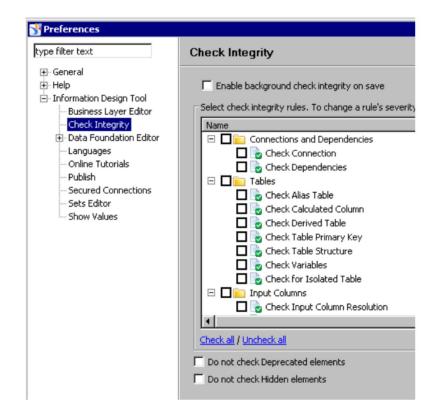


SAP BusinessObjects BI 4.2 SP04 - Semantic Layer

O TRUSTED FOUNDATION

Check Integrity

- New preferences:
 - To skip Check integrity
 - · To skip Deprecated or Hidden objects
- New rule to split parse and object execution against database



SAP BusinessObjects BI 4.2 SP04 - Semantic Layer

O TRUSTED FOUNDATION

REST Web Services

- New API to manage Data and Business Security Profiles: UniverseSecurityCache
- Reduced CMS repository interactions to increase performance

SAP BusinessObjects BI 4.2 SP04 - Semantic Layer

O Enable the Business

Set Analysis (1)

Enhanced with

- Sets Editor
 - Support segmentation per measure and per attribute
 - Support query panel to select subject
 - Support prompts or context in query panel
- Sets on Sets
 - Updated Venn Diagram UI



Select All Clear Selection

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Display:

Count

Percentage

SAP BusinessObjects BI 4.2 SP04 - Semantic Layer

O Enable the Business

Set Analysis (2)

Enhanced with

- Visual Data Steps
 - Support prompts and context when creating sets
 - Reorder steps
 - Insert custom values
 - Limit distinct values
 - Display count by step
 - Propose formula editor for scalar dimension by default

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SAP BusinessObjects BI 4.2 SP04 - Semantic Layer

O Enable the Business

Set Analysis (3)

- Materialization
 - Create processing group to schedule several set materializations at once

SAP BusinessObjects BI 4.2 SP04 - Semantic Layer

O SAP Backend Integration

SAP HANA

Enhanced with

- Support for complex filter
- Manage and Customize SAP HANA Variables at creating a relation UNX
- Support for SAP HANA HTTP Connection and UNX Authoring

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Live Office

BI4.2 SP04 What's New



SAP BusinessObjects BI 4.2 SP04 - Live Office

O Simplification

O Enable the Business O Performance

 Custom Element Consumption



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SAP BusinessObjects BI 4.2 SP04 - Live Office

O Enable the Business

Custom Elements Consumption

Enhanced with

Retrieval of Custom Elements as Chart Image from Web Intelligence report



Crystal Reports for Enterprise

BI4.2 SP04 What's New



SAP BusinessObjects BI 4.2 SP04 - Crystal Reports for Enterprise

O Simplification

- Server Group Enhancements
- Analytics Partner Extension Directory support
- SDK

O Enable the Business

- Fiori Styled Bl Launchpad Support
- Data Source Mapping Enhancements
- BW Enhancements
- SAP S/4HANA
- Direct to Data

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O Performance

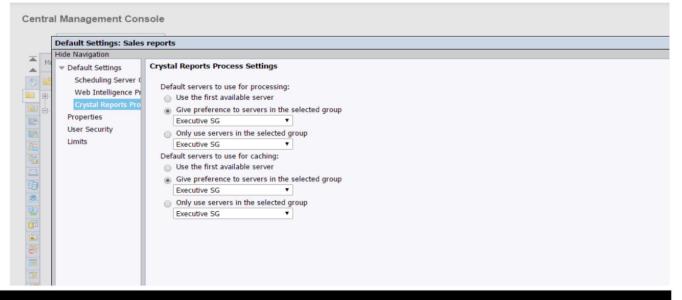
SAP BusinessObjects BI 4.2 SP04 - Crystal Reports for Enterprise

O Simplification

Server Group Exclusivity Settings

Crystal Reports for Enterprise Service enhanced with

- Support for Server Group Exclusivity while refreshing reports on demand
 - On User / Usergroup level
 - On Folder level



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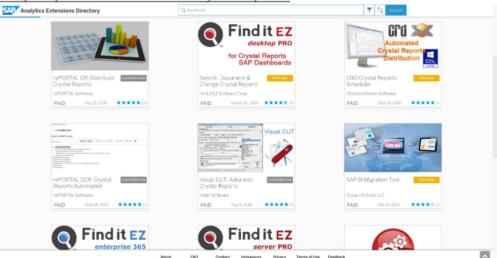
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SAP BusinessObjects BI 4.2 SP04 - Crystal Reports for Enterprise

O Simplification

Analytics Partner Extension Directory support

- Direct access to the SAP Analytics Partner Extension Directory from Crystal for Enterprise Client
 - https://analytics-extensions.enter.sap/sap/aed/ui/?Product=crystalreports



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SAP BusinessObjects BI 4.2 SP04 - Crystal Reports for Enterprise

O Simplification

SDK

Crystal Reports for Enterprise SDK enhancements

- JavaScript
- "Send to" function enabled when viewing Crystal Reports through OpenDocument
- "PVL" Parameter to be used for setting preferred viewing locale through OpenDocument

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SAP BusinessObjects BI 4.2 SP04 - Crystal Reports for Enterprise

O Enable the Business

Fiori styled BI Launchpad Support*

- View Crystal Reports for Enterprise documents
- Schedule Crystal Reports for Enterprise documents

* This is a first release with limited functionality, further enhancements planned for sub sequential Support Packages

SAP BusinessObjects BI 4.2 SP04 - Crystal Reports for Enterprise

O Enable the Business

Datasource mapping

Enhanced with

- Repointing a report to a new data source enhanced with Parameter mapping
 - No manual recreation of parameters at repointing to another data source required anymore
 - Mapping button added
 - Parity with Crystal Reports

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SAP BusinessObjects BI 4.2 SP04 - Crystal Reports for Enterprise

O Enable the Business

SAP BW Connectivity

Issues resolved for

- Updating Crystal Reports for Enterprise while using SAP BW as data source to BI4.2
 - Reports using BW OLAP Connector from BI Platform
 - Render report data issues resolved with errors "Invalid Data Source", "Verify Data Source" and "Set Data Source Location"
 - Reports using BW Variables in text format that are optional

SAP BusinessObjects BI 4.2 SP04 - Crystal Reports for Enterprise

O Enable the Business

SAP S/4HANA

Connection to

S/4 HANA On-Premise using BICS

* This is a first release with limited functionality, further enhancements planned for sub sequential Support Packages

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SAP BusinessObjects BI 4.2 SP04 - Crystal Reports for Enterprise

O Enable the Business

Direct to Data

Added support for

- Access 2013
- XML Files
- Sybase SQL Anywhere 27
- Microsoft SQL Server 2012 / 2014 / 2016

* This is a first release with limited functionality, further enhancements planned for sub sequential Support Packages



Crystal Reports

BI4.2 SP04 What's New



SAP BusinessObjects BI 4.2 SP04 - Crystal Reports 2016

O Simplification

- Server Group Enhancements
- Analytics Partner Extension Directory support
- SDK

O Enable the Business

- Fiori Styled BI Launchpad Support
- Direct to Data Enhancements

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O Performance

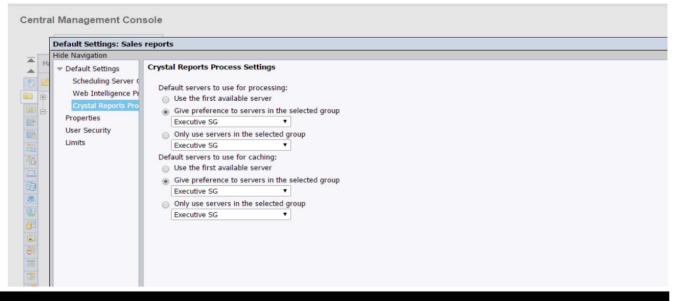
SAP BusinessObjects BI 4.2 SP04 - Crystal Reports 2016

O Simplification

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Crystal Reports for Enterprise Service enhanced with

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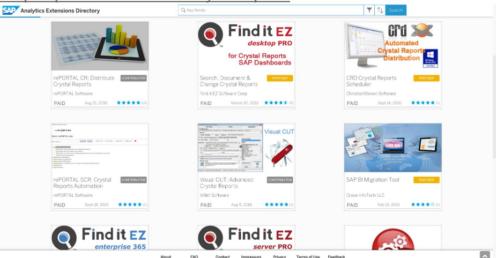
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SAP BusinessObjects BI 4.2 SP04 - Crystal Reports 2016

O Simplification

Analytics Partner Extension Directory support

- Direct access to the SAP Analytics Partner Extension Directory from Crystal for Enterprise Client
 - https://analytics-extensions.enter.sap/sap/aed/ui/?Product=crystalreports



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SAP BusinessObjects BI 4.2 SP04 - Crystal Reports 2016

O Simplification

SDK

Crystal Reports for Enterprise SDK enhancements

- "Send to" function enabled when viewing Crystal Reports through OpenDocument
- "PVL" Parameter to be used for setting preferred viewing locale through OpenDocument

SAP BusinessObjects BI 4.2 SP04 - Crystal Reports 2016

O Enable the Business

Fiori styled BI Launchpad Support*

- View Crystal Reports for Enterprise documents
- Schedule Crystal Reports for Enterprise documents

* This is a first release with limited functionality, further enhancements planned for sub sequential Support Packages

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SAP BusinessObjects BI 4.2 SP04 - Crystal Reports 2016

O Enable the Business

Direct to Data

Added support for

- SAP HANA SPS12 and SPS13
- Sybase SQL Anywhere 17
- Microsoft SQL Server 2016
- Oracle MySQL 5.7
- IBM DB2 for iSeries 7.3

* This is a first release with limited functionality, further enhancements planned for sub sequential Support Packages



Analysis for OLAP

BI4.2 SP04 What's New



SAP BusinessObjects BI 4.2 SP04 - Analysis for OLAP

O Simplification

- DrillThrough Enhancements
- Default Display for Member Selector
- Security Enhancements
- SSO Authentication
- Error Handling

O Enable the Business

- User Profile Adoption
- Display Data Source Details
- Search for Connection
- Hierarchy Information
- Modification Indicator



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O Performance

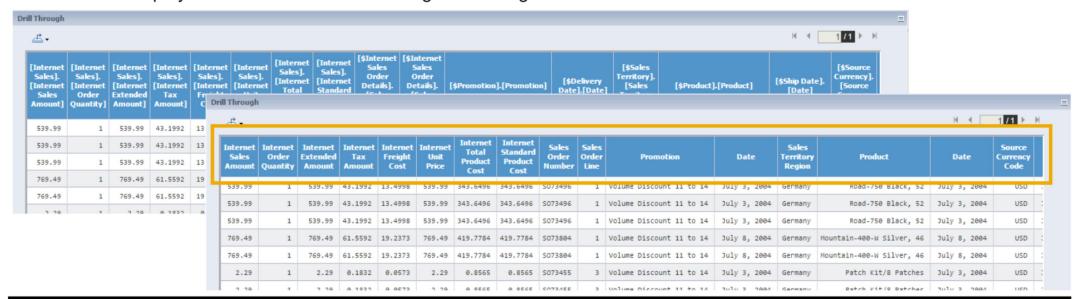
SAP BusinessObjects BI 4.2 SP04 - Analysis for OLAP

O Simplification

DrillThrough

Enhanced Readability

Enhanced display of column names while using DrillThrough



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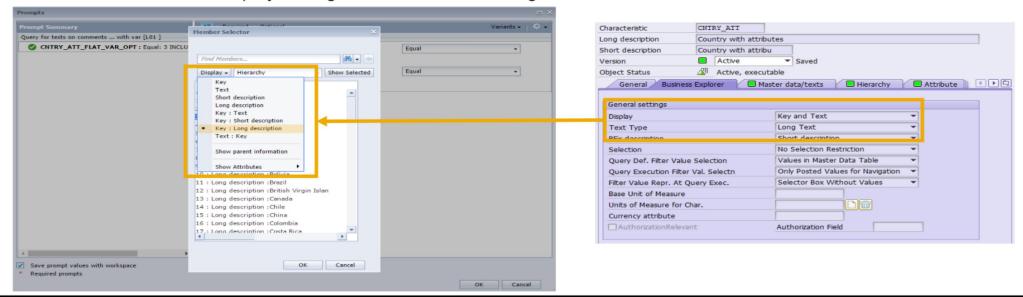
SAP BusinessObjects BI 4.2 SP04 - Analysis for OLAP

O Simplification

Default Display for Member Selector

Member Selection enhanced with

Inherit the BEx Default Display setting for users when entering the Member Selector



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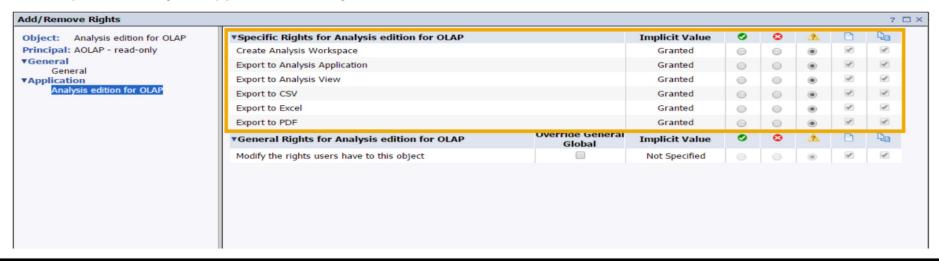
SAP BusinessObjects BI 4.2 SP04 - Analysis for OLAP

O Simplification

Security

Security Settings enhanced with

- Create Analysis Workspace security setting added for Analysis Edition for OLAP
- Split options to Export to Analysis Application, Analysis View, CSV, Excel and PDF



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SAP BusinessObjects BI 4.2 SP04 - Analysis for OLAP

O Simplification

SSO Authentication

SSO Enabled for

SAML SSO Authentication support for HANA HTTP Connection

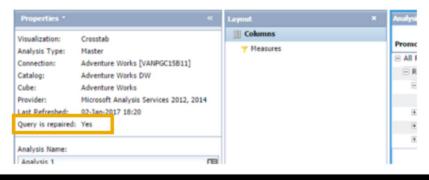
SAP BusinessObjects BI 4.2 SP04 - Analysis for OLAP

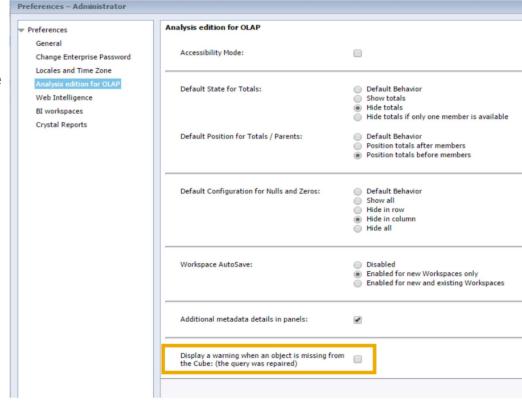
O Simplification

Error Handling

Avoid Warnings when member in workspace is missing from Cube

- Properties Screen to tell if OLAP query has been repaired A Query is repaired when a explicitly referenced member in a workspace cannot be found in the Cube
- User Preference for display of warning when an OLAP Query has been repaired





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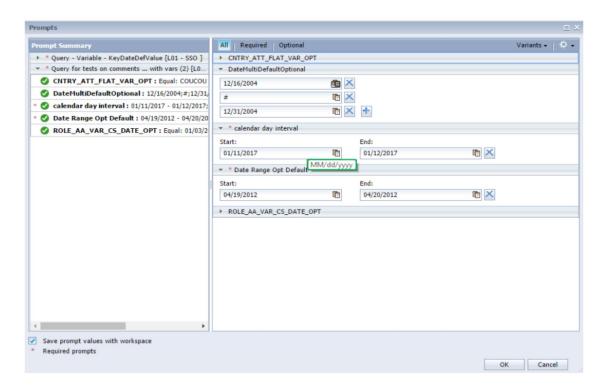
SAP BusinessObjects BI 4.2 SP04 - Analysis for OLAP

O Enable the Business

User Profile Adoption

Prompt Panel enhanced with

 Enter DATE based prompts in format as defined on User Profile settings instead of default yyyyMMdd



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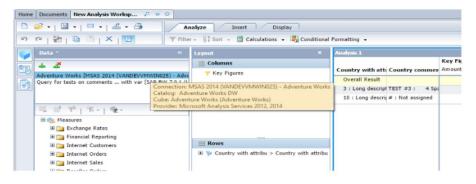
SAP BusinessObjects BI 4.2 SP04 - Analysis for OLAP

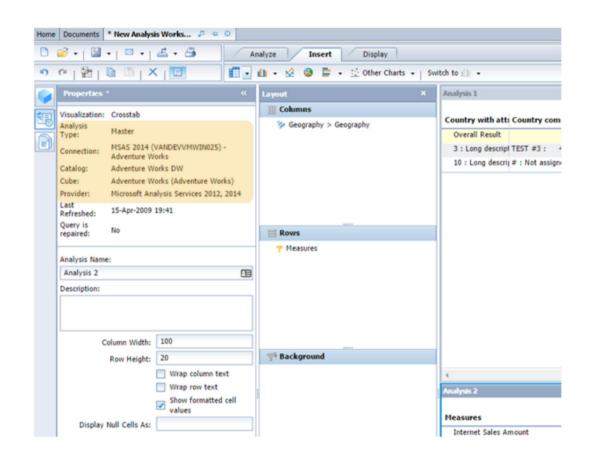
O Enable the Business

Display Data Source Details

Enable quick and easy insight to OLAP source

- Data Source description for all OLAP Connections
 - Cube / Query
 - Catalog
 - Server





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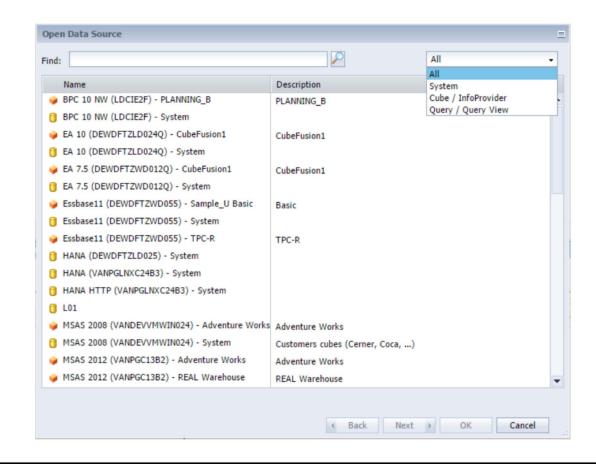
SAP BusinessObjects BI 4.2 SP04 - Analysis for OLAP

O Enable the Business

Search for Connection

Enable quick and easy access to OLAP source

- Search Connections
 - Name
 - Description
- Case insensitive
- Cumulative with filter by connection type



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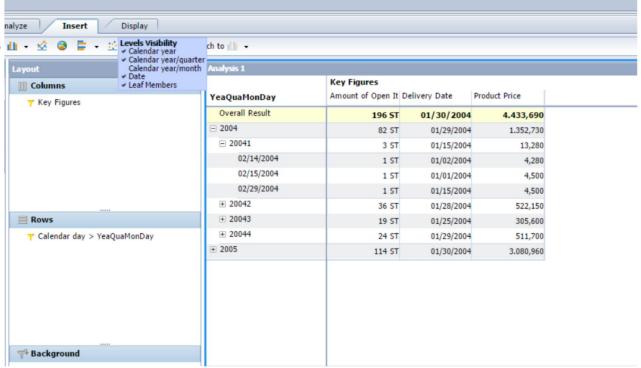
SAP BusinessObjects BI 4.2 SP04 - Analysis for OLAP

O Enable the Business

Hierarchy Information

Enable quick and easy insight to Hierarchy Levels in

 Tooltip while hovering over Hierarchy to display Levels



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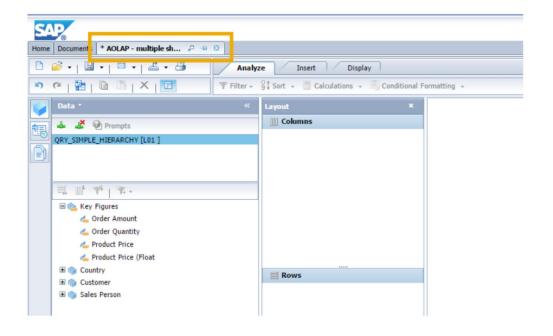
SAP BusinessObjects BI 4.2 SP04 - Analysis for OLAP

O Enable the Business

Modification Indicator

Enable quick update if workspace is changed

 Indicator on Workbook tab if content has been modified tab will receive an asterisk (*) as pre-fix



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BI Platform SDK

BI4.2 SP04 What's New



SAP BusinessObjects BI 4.2 SP04 – BI Platform SDK

O Simplification for IT O Enable the Business O Performance

- BI Inbox
- Document Management
- Recycle Bin
- User Management
- Scheduling
- Publication
- Alerts and Notifications
- Calendar
- Generic
- OpenDocument

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SAP BusinessObjects BI 4.2 SP04 - BI Platform SDK

O SIMPLIFICATION for IT

BI Inbox

- List Inbox messages for the User
- Update messages read/unread states, Properties, filters etc.
- Permanently delete items from inbox

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SAP BusinessObjects BI 4.2 SP04 - BI Platform SDK

O SIMPLIFICATION for IT

Document Management

- Send documents to destination
 - Inbox
 - File Location
 - Email via SMTP
 - (S)FTP

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SAP BusinessObjects BI 4.2 SP04 - BI Platform SDK

O SIMPLIFICATION for IT

Recycle Bin

- List Items and their properties move to Recycle Bin
- Restore items from Recycle Bin
- Permanently delete item(s) from Recycle Bin

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SAP BusinessObjects BI 4.2 SP04 - BI Platform SDK

O SIMPLIFICATION for IT

User Management

- List available locales and time zones
- Get and Set locales, time zones and PVL for user logged-in
- Change password for Logged-in user
- Last logged in information for user

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SAP BusinessObjects BI 4.2 SP04 - BI Platform SDK

O SIMPLIFICATION for IT

Scheduling

- Recurrence details on schedules
- Calendar support for schedules list, get selected dates

SAP BusinessObjects BI 4.2 SP04 - BI Platform SDK

O SIMPLIFICATION for IT

Publication

- Set Merged PDF settings and delivery rules
- Distribution information on successful and failed received publication info for users
- Events listings for publications
- Notifications on scheduled status Through MyAlerts or through eMail
- Advanced settings for publications
- Server group at report level and publications

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SAP BusinessObjects BI 4.2 SP04 - BI Platform SDK

O SIMPLIFICATION for IT

Alerts and Notifications

- List alerts subscribed for current user
- Details of particular alert
- Mark read/unread alerts
- Delete single / multiple alerts
- List details and the count of banner message notifications for the user

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SAP BusinessObjects BI 4.2 SP04 - BI Platform SDK

O SIMPLIFICATION for IT

Calendar

- Get the list of calendars available
- Get the selected dates for the selected calendars

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SAP BusinessObjects BI 4.2 SP04 - BI Platform SDK

O SIMPLIFICATION for IT

Generic

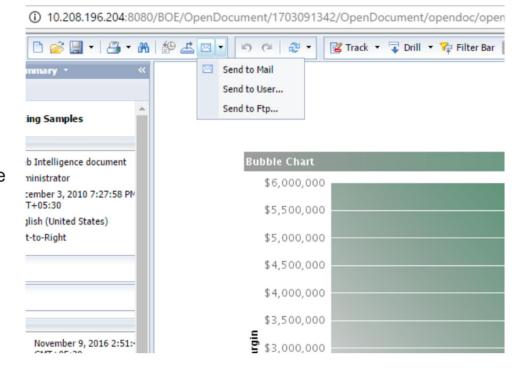
RESTful Web services session consumption lists in CMC

SAP BusinessObjects BI 4.2 SP04 – OpenDocument

O SIMPLIFICATION for IT

OpenDocument

- SendTo in Opendoc Webi + CR
- Support Lang PARAM for CR
 Parity to Webl Set Preferred viewing locale and language independently in a OpenDocument



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Crystal Reports Java Scripts API

BI4.2 SP04 What's New



SAP BusinessObjects BI 4.2 SP04 - CR JAVA Script API

O SIMPLIFICATION for IT

New APIs for

- setEnableDrillDown
- setToolPanelViewMode
- setHasToggleGroupTreeButton
- setHasToggleParameterPanelButton
- setHasSearchButton

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Platform Support

BI4.2 SP04 What's New



SAP BusinessObjects BI 4.2 SP04 - Platform Support

O Simplification for IT O Enable the Business O Performance

- Default Bundle Changes
- Operating Systems
- Web Application Servers
- Portals
- Others

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

SAP BusinessObjects BI 4.2 SP04 - Platform Support

O SIMPLIFICATION for IT

Default Bundled with Installer

Changes made

- Upgraded to SQLAnywhere 17
- Upgrade to Tomcat 8.5.4

SAP BusinessObjects BI 4.2 SP04 - Platform Support

O SIMPLIFICATION for IT

Operating Systems*

Added support for

- Red Hat Enterprise Linux (RHEL) 7.2
- IBM AIX 7.2
- Oracle Linux 7.2 including Unbreakable Enterprise Kernel (UEK)

SAP BusinessObjects BI 4.2 SP04 - Platform Support

O SIMPLIFICATION for IT

Web Application Servers*

Added support for

Jboss EAP 7.0

SAP BusinessObjects BI 4.2 SP04 - Platform Support

O SIMPLIFICATION for IT

Portals*

Added support for

SAP NW 7.5 SP05 Application Server Java

SAP BusinessObjects BI 4.2 SP04 - Platform Support

O SIMPLIFICATION for IT

Others*

Added support for

Visual Studio 2015 including compiler



Data Access

BI4.2 SP04 What's New



SAP BusinessObjects BI 4.2 SP04 - Data Access

Simplification for IT Enable the Business Performance

- SAP HANA 2.0
- Big Data
- **RDBMS**

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

SAP BusinessObjects BI 4.2 SP04- Data Access

O Enable the Business

Data Access (1)*

Added support for

- SAP HANA 2.0
- Apache Spark 2.0
- Hive 2.0
- Cloudera Impala 2.3

SAP BusinessObjects BI 4.2 SP04- Data Access

O Enable the Business

Data Access (2)*

Added support for

- SQLAnywhere 17
- Oracle Exadata 12
- Microsoft Parallel Datawarehouse (JDBC Only)
- Microsoft SQLServer 2016
- DB2 for zOS 12
- DB2 for iSeries 7.3
- MySQL 5.7



Additional Information



Key Links (1)

SAP Generic Links

- SAP Community Network : http://scn.sap.com
- SAP Road Maps in SMP: http://service.sap.com/saproadmaps
- Product Documentation : http://help.sap.com
- Product Availability Matrix: https://apps.support.sap.com/sap/support/pam
- Maintenance schedule: https://support.sap.com/release-upgrade-maintenance/package-stack-schedules/analytics-maintenance-schedule.html
- Design-thinking methodology: http://scn.sap.com/community/design-thinking
- Remote Supportability: https://support.sap.com/remote-support.html

Key Links (2)

SAP BI Recommended Links

- BI4.2 Virtual Upgrade Workshop: http://scn.sap.com/community/bi-platform/blog/2016/07/18/announcingthe-launch-of-sap-businessobjects-bi-42-upgrade-virtual-technical-workshop-online-videos
- Watch SAP Analytics Customer Stories : http://www.SAPAnalyticsStory.com
- SAP BI Statement of Direction : http://bit.ly/SAPBI_SOD
- SAP BI Recourse Center: www.sapbi.com
- Official tutorials for SAP BI : http://sap.com/learnbi
- Choosing the right BI Client: http://scn.sap.com/docs/DOC-38981
- SAP BI Sizing : www.sap.com/bisizing
- SAP BI Pattern Books: https://wiki.scn.sap.com/wiki/display/BOBJ/Business+Intelligence+Platform+-+Pattern+Books+Index
- SAP BI Platform Support Tool: http://wiki.scn.sap.com/wiki/display/BOBJ/SAP+BI+Platform+Support+Tool

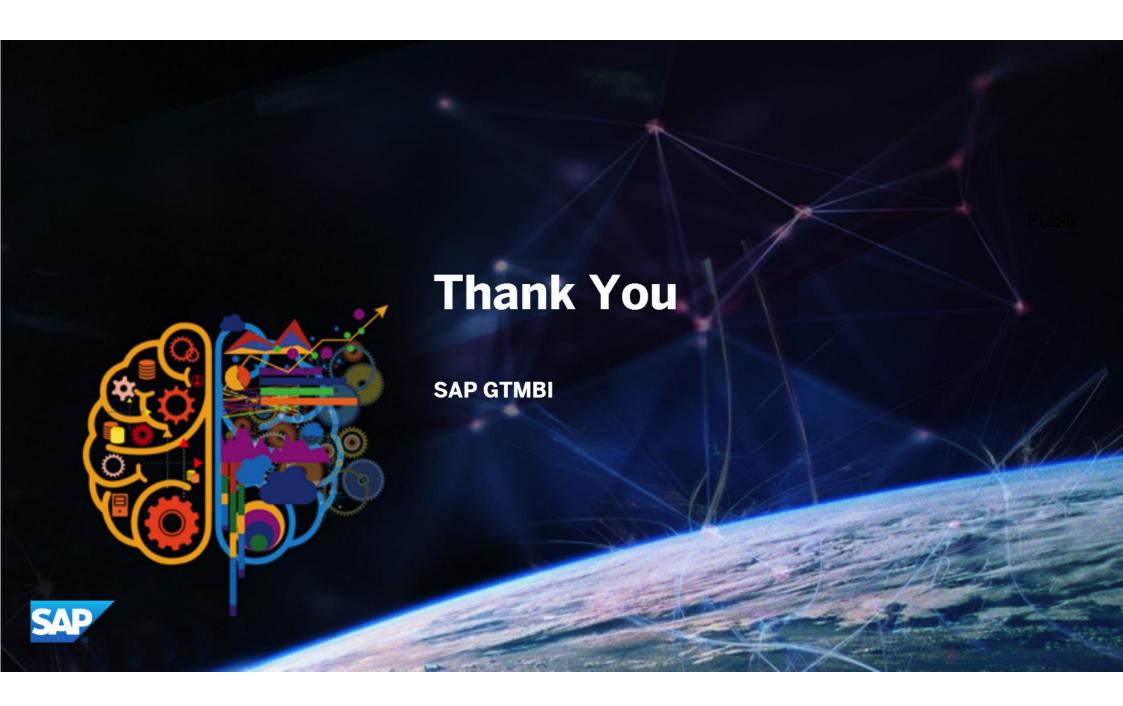
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Where to go to provide product feedback and ideas

Where to go to provide product feedback and ideas

- SAP Idea Place : https://ideas.sap.com
- Influence programs : http://service.sap.com/influence
- SAP User Groups : http://www.sapusergroups.com/



Change Log

Version	Comment	Date
1.0	Initial release	20-04-2017

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