What’s New in SAP Business Objects 4.1

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Agenda

BI Suite Overview

What’s new in BI 4.1?
SAP’s strategic focus directions on Business Intelligence

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

Agile Visualization
- Extend analytics throughout your organization and beyond
- Next generation visual analytics
- Contextual BI

Advanced Analytics
- Against more data and processes
- Run in Real-time
- Open and flexible (R, Hadoop, all data)
SAP Business Intelligence Clients

Build Engaging Experiences

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


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

Distribute Information

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

High productivity design for report designers

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

Portfolio

- Web Intelligence*
- Crystal Reports*

* SAP BusinessObjects Web Intelligence; SAP Crystal Reports
Dashboards and Apps
Build Engaging Experiences

Build engaging, visual dashboards

- Powerful environment to build interactive and visually appealing analytics
- Rich set of controls: buttons, list boxes, drop-down, crosstabs, charts...
- Use custom code to extend and build workflows

Portfolio

- Design Studio*
- Dashboards (aka Xcelsius)*

* SAP BusinessObjects Design Studio; SAP BusinessObjects Dashboards
Self-service

Agility for business analysts and business users

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

Portfolio

• Lumira
• Explorer
• Analysis
• Predictive Analysis
SAP BusinessObjects Business Intelligence Suite

Information Access
through Mobile app, web portals, MS Office and cloud

Self-service
Dashboards and Apps
Reporting

Business Intelligence Platform

Universe Semantic Layer

ERP: SAP Business Suite and other ERPs
BW, TeraData, other DWs
Oracle, DB2, MS SQL and many other DBs
SAP HANA Platform
OLAP Cubes
MS Excel
Unstructured data in Social Media and Hadoop
Agenda

BI Suite Overview

What’s new in BI 4.1?
BI 4.1 is available on SMP since Aug 30th

- Ramp up program ended 3 months early: all KPIs have been met
  - 18 live customers as of end of August, no red project
  - 230 shipments total, more than 130 partners
  - All product scenarios covered

- Technically it is 4.1 SP1, available as a full build (or delta) on SMP
Customer Feedback

Consistently positive response from customers and partners

- "in the 15-yrs l’ve worked with BOBJ -- 4.1 is the best code release ever”…
- “improvement in speed of the prompts in a Web Intelligence Report.“
- “DeskI compatibility is exactly what we needed. It worked nicely”…
- Overall satisfaction “10 out of 10”…
SAP BusinessObjects BI 4.1
What’s different about this release?

- First point release of SAP’s market leading Business Intelligence Suite
- Focus on quality and innovation deserving of a professional grade BI platform
- New APIs for customization & Developer community
- Migration ready for all existing customers
- New capabilities around self-service, dashboarding and mobile BI
- Support of both net new and updated platforms
## BI 4.1 New features by product

<table>
<thead>
<tr>
<th>Platform</th>
<th>Web Intelligence</th>
<th>Dashboards</th>
<th>Analysis for OLAP</th>
<th>CR for Enterprise</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Tenant-based session management</td>
<td>• RESTful Web services</td>
<td>• Offline</td>
<td>• Essbase Support</td>
<td>• Join modeled and unmodeled sources</td>
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<tr>
<td>• 3rd party authentication auto-mapping</td>
<td>• Freeze Header</td>
<td>• Refresh on device</td>
<td>• RRI &amp; OpenDoc</td>
<td>• HANA OLAP access</td>
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<tr>
<td>• Simplified/parallel install</td>
<td>• Custom Palettes</td>
<td></td>
<td>• Variants</td>
<td>• Freehand SQL</td>
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<tr>
<td><strong>Universe Semantic Layer</strong></td>
<td>• Relational Query Stripping (including HANA)</td>
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<td>• Prompt Merging</td>
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<td>• HANA variables and input parameters</td>
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<td>• Manual Prompts</td>
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<td>• .unx Java SDK</td>
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<td>• Data Fed Designer in IDT</td>
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<tr>
<td>• Auto HANA .unx creation</td>
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<td><strong>Upgrade Management Tool</strong></td>
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<td>• Service dependency check</td>
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<td><strong>Explorer</strong></td>
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<td>• E-Views in BI Workspaces</td>
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<td>• Free facet loading</td>
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<tr>
<td>• Object remapping</td>
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<tr>
<td>• .unv support</td>
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BI 4.1 Suite Install Packages (Platform and Clients)

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

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

- **Options for existing deployments:**
  - **Supported upgrade scenarios (upgrading from previous major version [XI R2 or XI R3])**
    - Full install package
  - **Supported update scenarios (updating from current major version [BI 4.0])**
    - Update install package
Lower Total Cost of Ownership through BI Platform Administration Improvements

System Configuration Wizard
- Initial server configuration
- Command line configuration

Upgrade Management Tool enhancements

Multitenancy

Single sign-on to HANA

RESTful Web services for authentication

Collaboration enhancements
Support for new data sources

**Big Data Ready**
- Hadoop with Hive on Amazon EMR

**New non-relational sources**
- oData
- XML and web services (SOAP)

**New relational sources**
- Teradata 14 / SSO for Teradata
- Oracle Exadata
- SQL Server 2012
- DB2 10 for zOS via JDBC, DB2 for zOS 10.1, DB2 LUW 10 & 10.1, DB2 for i v7.1
- Sybase ASE 15.7, SSO for Sybase IQ
- Oracle via ODBC (in addition to OCI and JDBC)
- PostgreSQL 9
- Greenplum 4.1 & 4.2

All together
- 13 vendors
- 30 sources (plus the generic drivers)
- Several versions
A total of 191 possible combinations
WebI: Quality, Performance and Enhancements

- Custom color palettes
- Freeze table headers
- Enhanced merge of hierarchies
- Edit merged objects
- Select members in lists of values in formula editor
- Create/edit BW/BEx reports: up to 80% faster than 4.0 to open query panel with BW 7.30
- Refresh BW/BEx reports with variables: up to 50% than 4.0 to refresh reports with variables, and display variable
- See youtube video for more details
Introducing more efficient workflows and features focused on reducing time to create and format reports

**Freehand SQL command object**
- Customize the SQL to optimize the query to relational data sources

**Verify database options**
- Ensure the report query reflects the modifications to the underlying data source

**Enhanced SAP Support**
- For SAP BW, HANA & ECC

```
SELECT DISTINCT "COUNTRY",
    "AT_AGENCY_DESCRIBED_AGENCYNUM",
    "NAME",
    "CITY",
    "CURRENCY",
    SUM("EUR_DISCOUNT") AS "EUR_DISCOUNT_SUM"
FROM (SELECT "AT_AGENCY_DESCRIBED_MANDT",
    "NAME",
    "CITY",
    "COUNTRY",
    "CURRENCY",
    "AT_AGENCY_DESCRIBED_AGENCYNUM",
    "FORCURKEY",
    "EUR_DISCOUNT",
    sum("FORCURAM") AS "FORCURAM"
FROM "_SYS_BIC".#$flight/AN_AGENCY_EUR_DISCOUNT" GROUP BY
    "AT_AGENCY_DESCRIBED_MANDT",
    "NAME",
    "CITY",
    "COUNTRY",
    "CURRENCY",
    "AT_AGENCY_DESCRIBED_AGENCYNUM",
    "FORCURKEY",
    "EUR_DISCOUNT") "TMP"
GROUP BY "COUNTRY",
    "AT_AGENCY_DESCRIBED_AGENCYNUM",
    "NAME",
    "CITY",
    "CURRENCY"
ORDER BY "COUNTRY" ASC,
    "AT_AGENCY_DESCRIBED_AGENCYNUM" ASC,
    "NAME" ASC,
    "CITY" ASC,
    "CURRENCY" ASC
```
Explorer 4.1 allows user to create Information Space on top of both universes UNV + UNX.

Explorer now offers a tool to help the administrator:
- Change the original datasource to a production or another more up-to-date datasource
- Keep your Information Space definition
- Keep all eViews relying on your Information Space
Offline support for flash dashboards
- In Designer, turn on offline support by checking "Allow This Dashboard to be Used Offline"
- During runtime, right click on Dashboards, and click "Download dashboard with current data to local"

Also...
- Dynamic Positioning of Components
- Accessibility – Keyboard navigation
Sharing

- Export to Design Studio for mobile device rendering

Enhanced SAP BW integration

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

Expanding the Market

- Oracle Essbase 11
- Oracle OLAP

Enhanced HANA integration

- Support for Hierarchies & Prompts

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

Full SDKs for Platform, Crystal, WebI and Semantic Layer

Below the object model to create a .unx universe
Enabling the Developers: customizing the UI

Embed Web Intelligence functionality with RESTful Web services API

- Create/consume/schedule documents
- Create/edit data providers

Personalize Web Intelligence user experience

- Control UI elements and functions
- User-based settings in CMC
Enabling the Developers: visualization

CVOM SDK allows to extend Visualization library, for instance with Geospatial

Find samples on the Data Geek community Data Mania
Migrate Desktop Intelligence users
Desktop Intelligence Compatibility Pack (DCP)

Provides Desktop Intelligence users with the ability to work with BI 4.1

- Desktop Intelligence users and reports are managed from the 4.1 management console
- Limited viewing of DeskI reports in Infoview (no DeskI server processes), need pdf output
- Desktop Intelligence report scheduling limited to Windows scheduling

Availability with XI 3.1 Fix Pack 6.1 and above

No change to Desk 3.x end of support (2017)
# DeskI catchup features

<table>
<thead>
<tr>
<th>Desktop Intelligence feature</th>
<th>Planned availability in Web Intelligence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Custom grouping</td>
<td>Planned 4.1 SP2</td>
</tr>
<tr>
<td>Excel data provider</td>
<td>Planned 4.1 SP2</td>
</tr>
<tr>
<td>Export to HTML</td>
<td>Planned 4.1 SP2 via REST API</td>
</tr>
<tr>
<td>Scheduling with export to HTML</td>
<td>Planned 4.1 SP2 via REST API</td>
</tr>
<tr>
<td>Scheduling with export to TXT</td>
<td>Planned 4.1 SP2</td>
</tr>
<tr>
<td>Free-Hand SQL</td>
<td>Next release 12 to 18 months</td>
</tr>
</tbody>
</table>

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

Right-to-left user experience

- Arabic locale triggers right-to-left user interface for WebI, Crystal, BI Launchpad and mobile
- Document created in Arabic locale reads right-to-left

Arabic support

Hebrew support coming in 4.1 SP3
Enabling the end users with SAP Business Objects Mobile 5

- Crystal Reports
- Reporting
- Dashboards & apps
- Design Studio
- Analysis Office & OLAP
- Web Intelligence
- Self-Service
- Explorer
- Lumira Desktop
- Lumira Cloud
Mobile BI 5 enhancements

One app for all content
• New access to Explorer
• New access to Lumira Cloud

Improved homepage

Harmonized actions for all report content types
• Enhancements for WebI, Dashboards and Design Studio

Mobile Container enhancements
• BI Inbox support

Mobile SDK to customize, extend, integrate, distribute

Latest release on App store support iOS7
SAP BusinessObjects Mobile SDK

**Customize**
- Branding
- Onboarding
- Customize product features

**Extend**
Extend the application with new charts and visualization

**Integrate**
Integrate with the 3rd party security tools to enforce the corporate policies and enhance security

**Distribute**
Distribute through Enterprise App Store, MDM tools or upload the customized app to App Store
SAP BusinessObjects BI 4.1
New features by theme

- Simplified deployment and migration tools
- More Multi-tenancy features
- RTL in CR, WebI, Launchpad & Mobile

- Oracle Exadata, Oracle OLAP, Oracle Essbase, Hadoop on Amazon Elastic MapReduce, Teradata 14, Teradata OLAP, OData, XML, Web Services

- Variable Variant Support (A OLAP, Design Studio)
- Publishing (A Office)
- Convert analysis to Mobile (A OLAP, A Office)
- Combine Universes with BEx Queries to abstract the field names

- Offline mobile and desktop dashboards
- More visualizations

- SUP 2.2 & SUP cloud support
- QR Code & Barcode Scan Support
- Android for WebI & Dashboards

- Single Sign-on
- Automatic universe generation on HANA views
- Crystal Reports direct access to Analytic & Calculated Views incl. hierarchies & variables

- Single Mobile BI App
- SAP HANA
- SAP Jam Collaboration
- Developer
- BI 4.1 New Features
- Platform-Transversal
- Access More Data
- SAP BW & ECC
- Desktop Intelligence Compatibility
- Dashboarding
Key Links

- www.sap.com/trylumira
- sap.com/upgradebi
- sap.com/learnbi
- sap.com/bivirtualization
- sap.com/bisizing
- service.sap.com/roadmap

- How to Select the Right BI Tool for Your Environment (http://scn.sap.com/docs/DOC-38981)

- SAP’s Release Strategy for Major Releases of SAP BusinessObjects BI
SAP BusinessObjects BI Suite 4.1

- 1 suite for all users and all data
- Migration release for our 3.x customers
- The next step in self-service, dashboarding and mobile
Thank you

Nick Wall
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