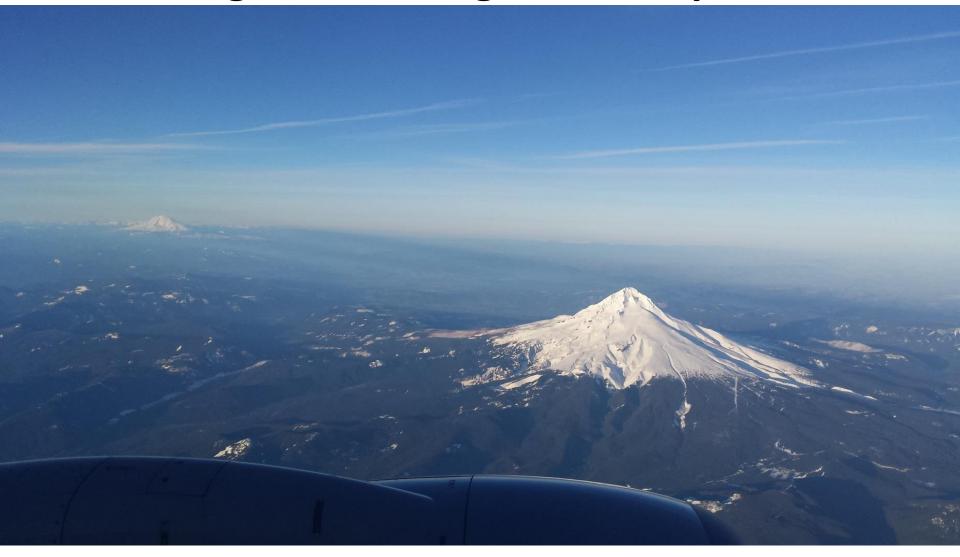


Web Intelligence: Rising to a new prominence



SAP BusinessObjects Web Intelligence 4.2

for ad-hoc query and interactive reporting

Access to heterogeneous data sources

- Leverage semantic layer and common business terms
- Combine multiple data sources within a report

Flexibility and control

- Create new reports or modify existing reports
- Re-use shared report elements

Interactive and intuitive interface

- Use the organized toolbar, drag-and-drop features, and charting options
- Collaborate within the reports

Online and offline reporting

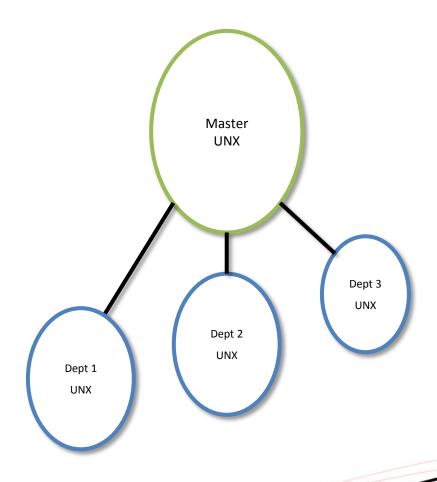
- Ask questions, analyze data, and identify trends no matter where you are (mobile, web, desktop)
- Share insights via Reports publication



Linked Universes

Linked UNX universes:

- Done with Information Designer Tool (IDT)
- Same principle as universe linking with UDT and UNV
- Changes to a core UNX are propagated to all derived UNX universes
- Derived UNX universes are independent universes and can be amended

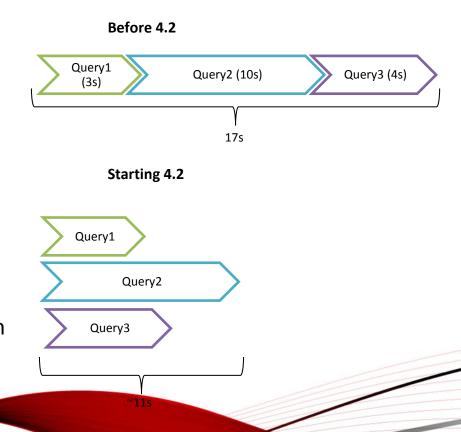


Parallel queries

Boost refresh performance of your Webl documents

Parallel queries (fetch) execution

- Parallel activities on database at the execution and data fetch
- Supported on
 - UNV, UNX
 - SAP HANA Direct Access
 - FHSQL
 - Text files
- Only Fetch Time can be parallelized (not the prepare and indexing)
- Activated by default
- Control the number of parallel queries in configuration files



Shared Elements

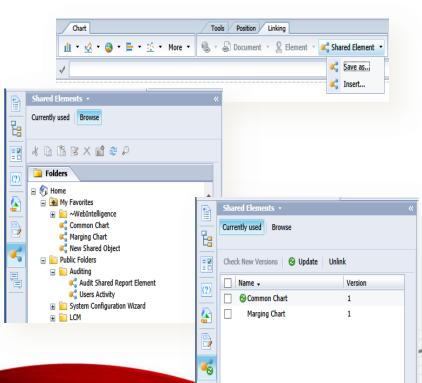
Simplify Webl document creation and user experience

Shared Elements:

 Share Web Intelligence content (report part) with other users, as shared objects

 Browse and reuse Web Intelligence content created by other users

 Factorize Web Intelligence content to ease the update process with reference persistence

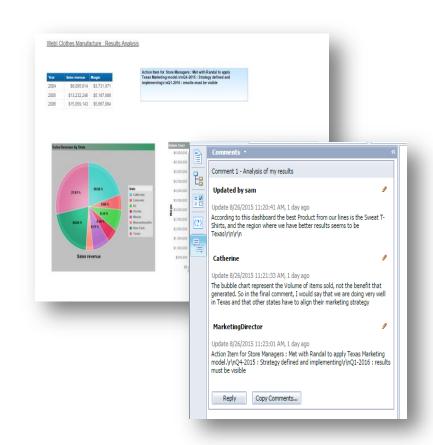


Commentary

Comment a Web Intelligence document

Commentary:

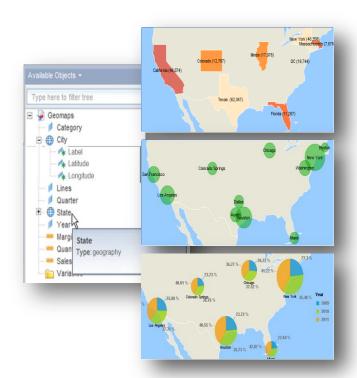
- Service provided by BI Platform:
 Comments are stored in the Audit DB
 (by default but can be changed in CMC)
- Add a comment in your document
- For collaboration: Side panel for interacting all entire Comment Thread (edit, reply, copy)
- If used for validation process: new security commands to enable/disable actions



GeoMaps

Create geomaps using your Web Intelligence data

- Integration of a geographical database into WebI: worldwide coverage with countries, regions, sub-regions and cities over 100K inhabitants
- Integration of CVOM Java geomaps into Webl charts (choropleth, geopie, geobubble)
- Dialog box to search and match the data with the geo database
- Ability to persist the matched geo data in the Webl documents

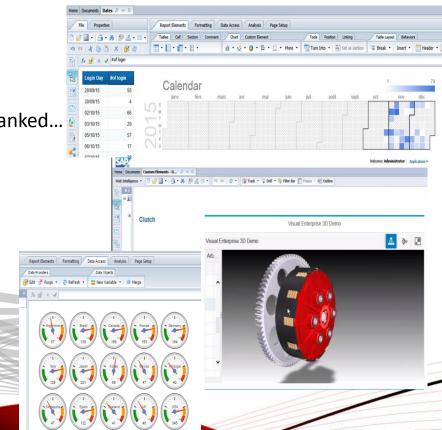


Visualization Extensions (Linked or Custom Elements)

Enhance Web Intelligence with new element types (table, visualization, others)

Visualization Extensions:

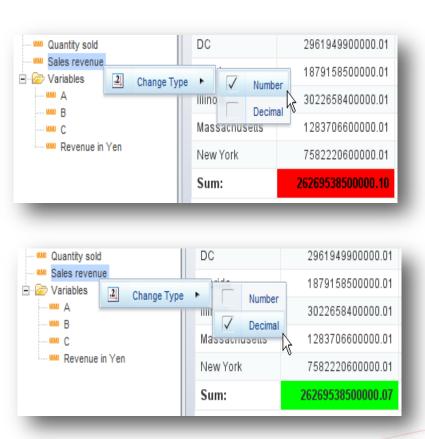
- New framework for developers to build custom elements to render in Webl
- Fully integrated into the WebI UX
- Visualization Extensions can be filtered, sorted, ranked...
- Managed at CMC level



Big Numbers

Use Big Numbers to improve the calculation precision

- Integration of the IEEE "Decimal Floating Point" format
- Increased precision from 15 to 40 digits!
- New Webl calculator function to convert to Decimal format
- Contextual menu to convert any measure into Decimal format



What has been delivered in Webi for BI4.2 SP03?

Linked universes

Parallel queries

Commentary

Shared elements

Geomaps

Big number

Viz extensions

BW authored unx

HANA access modes

GA BI4.2 SP02

NEW INNOVATIONS

ENHANCE AND STRENGHTEN BI4.2 SP02 FEATURES

BI4.2 SP03

DHTML Catchup

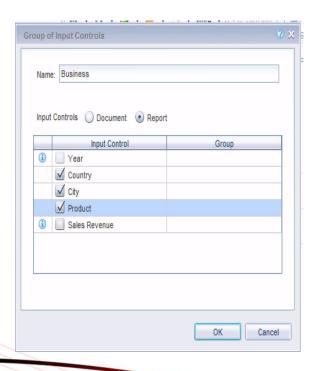
Achieve parity with Web Intelligence Java Applet

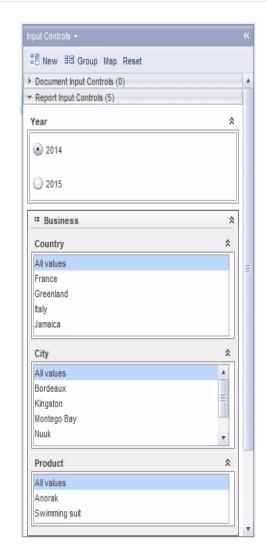
- Save As
- Format Number
- Conditional Formatting
- Support of XLS data provider
- Query Panel for SAP BEx, UNX on SAP Bex data providers
- Complex filters in Query Panel

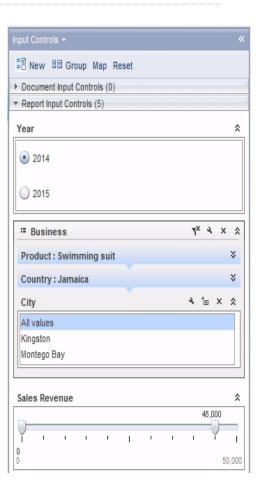
Dynamic Input Controls

Dynamic Input Control

- Groups Management
- LOV dynamic filtering
- Display selected values (Filter Path)







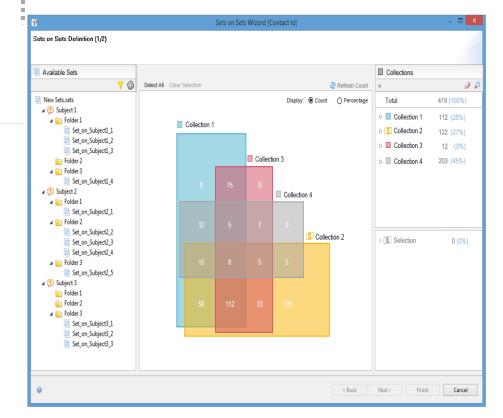
Sets

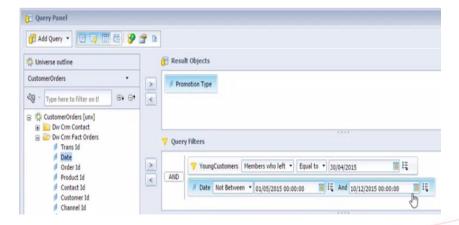
Use Sets to query data Author Sets in Information Design Tool

- Smooth integration in Semantic Layer and BI Platform
- New InfoObject in CMS repository: Setcontainer
- Define sets on top of universe objects, based on data distribution or formula
- Define sets on top of sets

Consume Sets Through Universe

- Sets are exposed as universe filter
- Temporal filter
- Available to Semantic Layer clients: Web Intelligence, but also Lumira, Crystal Reports,...

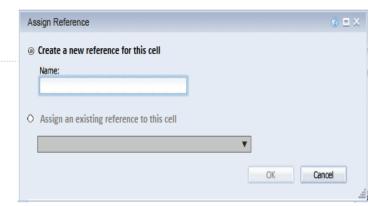


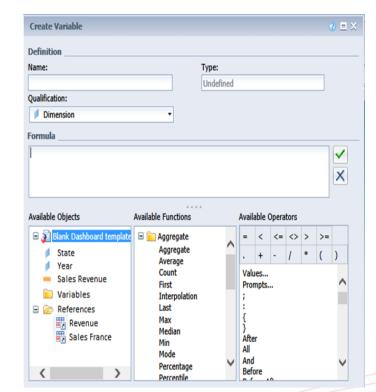


Referenced cell

Define Reference values

- A reference is a variable that returns the value of a specified cell in the document
- The reference value keeps its own context.
 Get a specific figure in a table, for specific dimension value, for example:
 - Year = 2016, Product = TV
- All reference values are listed as AVAILABLE OBJECTS
- A reference can be used in any formula and/or for Conditional Formatting





Commentary

Comment anything

- Table, chart or table's cell
- Possible both in Reading and Design modes
- Comments displayed when hovering the mouse

Usability

- Enhanced Comments side panel
- Delete comments in Comments side panel

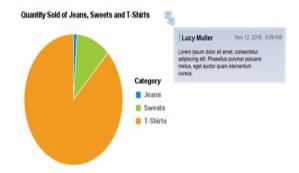
Improved Lifecycle

- "Save As" for documents with comments.
- Commentary available for Scheduling.
 Instances will use parents comments

Performance Optimization







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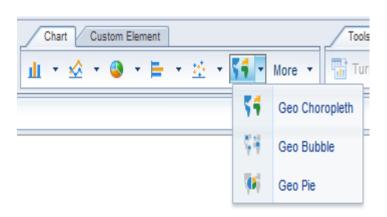
Geo Map

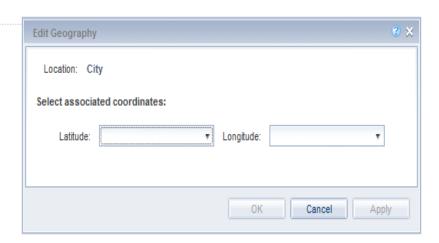
Improve geo map support

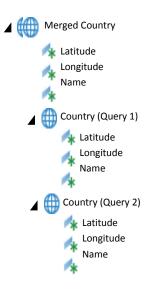
- Use latitude/longitude as data points:
 - Edit as a Geography > By Longitude/Latitude
- Geo-qualify merged objects and variables

UX improvement

Show geo maps in the toolbar







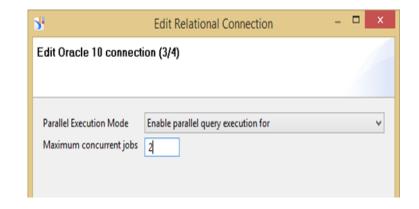
Parallel Data Provider

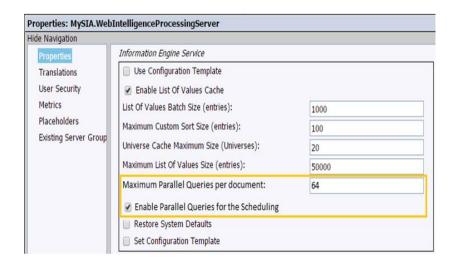
New Data Provider Supported for Parallel Query:

Parallel Query support on BEx Queries

Parallel Query Settings:

- IDT/UDT: relational cnx disable parallel queries, max concurrent jobs
- CMC/IDT: OLAP cnx disable parallel queries, max concurrent jobs
- CMC: Disable parallel queries for scheduling
- CMC: Max number of parallel jobs per documents

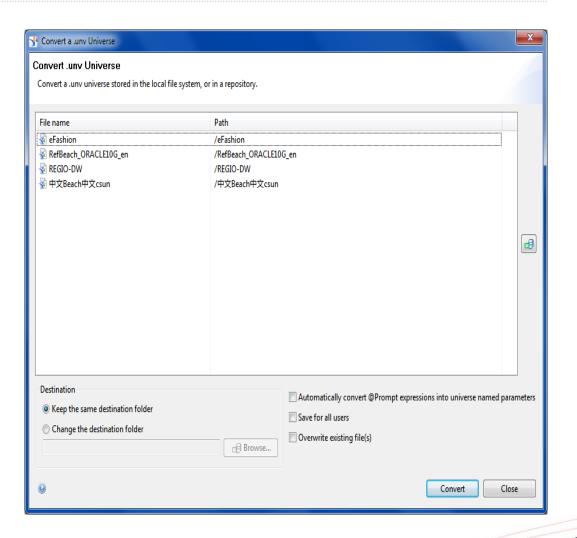




Universe Conversion

Universe Conversion

- Convert linked UNV to linked UNX
- Convert several universes at once
- Improved UI

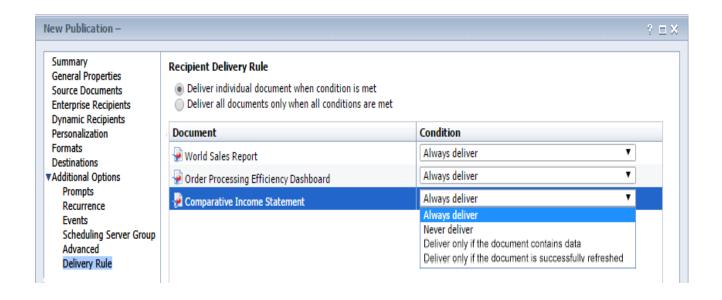


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Publishing

Recipient Delivery Rule

- Do not send publication if document has no data
- Do not send publication if document has not been successfully refreshed



And many other improvements...

Web Intelligence Calculation Engine:

- New function to flatten a hierarchy (like in XI 3)
- Merge variables

Web Intelligence Chart Engine:

- Display both value and percentage in Pie charts
- Customize borders of each data series in Bar/Column charts
- Inverse legend order in stacked Bar/Column charts
- Customize Total value label in Waterfall charts

Web Intelligence User Interface:

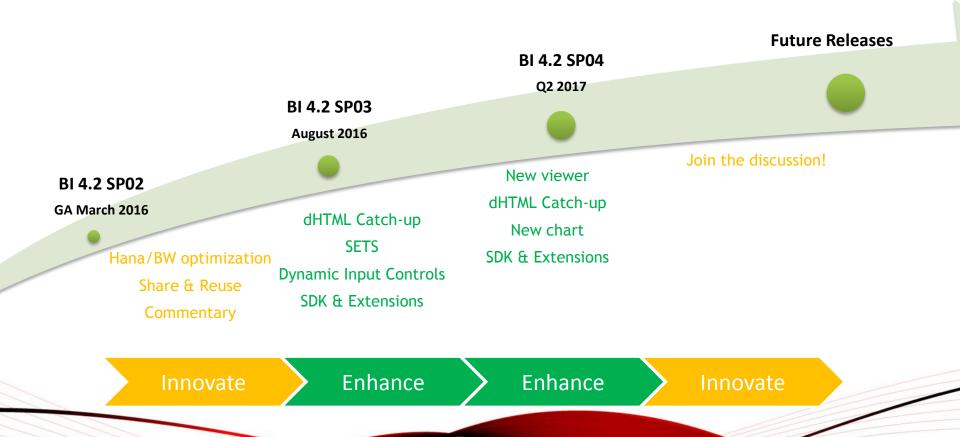
- Choose the image DPI when exporting a document to PDF or Excel
- Sort Data Provider objects by Universe folders (Available Objects side panel)

Web Intelligence Server Group

- Support server at User Group level
- Support Server Group at Report level (Processing)

Innovation Roadmap

Expand Business leadership on stable core



What is planned in Webl for BI4.2 SP04?

dHTML catch up > Java parity — Step 2 : Free Hand SQL, RTL support for document

CVOM Enhancements — Gauges, Tiles, and additional enhancements

Customer Connection Program — New functions for variables

Deski Client parity - variable description

BI Variants — Include or exclude prompts from the BI Variant

Sets — Cumulative improvements

Cumulative enhancements — Security right for FHSQL, Hierarchy flattening, new APIs for Custom Elements, new DB support

SDK — Expose BI 4.2 features in REST web services

Web Intelligence new consumption experience (Unified Viewer)

BI4.2 SPx and beyond!

PROPOSALS, IDEAS! SUBJECT TO CHANGE!

Modern experience for Readers and Designers

- o Modern look and feel (HTML5, FIORI UI)
- Support modern devices (Different screen sizes and interaction paradigms, touch friendly)
- App-like experience

Simplified Consumption experience

- Action in place: key actions are one click away, attached to the block (sort, rank, comment, filter ...)
- Smart analysis: Interact with your report and discover new question, smart analysis on viz, data point decomposition and comparison ...
- Alerting: create and follow metrics
- O Notifications : be notified when alerts is triggered or a comment is sent to

Simplified Designer experience

- o New report layout : placement and layout snaps into place cleanly
- o Templates of reports and visualization : beautiful visual content by default
- Create calculations via visual action
- Trusted BI: simplified report creation based on shared elements(trusted and shared query/data/viz)

Adapt to ecosystem

- o Fully leverage new data sources (unstructured, big data, cloud data, social data)
- Extend Webl capabilities via new Cloud services
- Generalize "OnLine" mode for ".unx" and other data sources
- Suggestions: suggest new Bi artefact or new query/data/viz based on the usage of Webl reports by users

Key links for more information

Key links

Web Intelligence on SCN http://scn.sap.com/community/businessobjects-web-intelligence

• Web Intelligence 4.1, where to start (official tutorials/videos) ? http://scn.sap.com/docs/DOC-7819

Advanced Tips&Tricks to create great Web Intelligence documents http://scn.sap.com/docs/DOC-50171

• Best Practices to Design a Web Intelligence document: http://scn.sap.com/docs/DOC-58571

http://scn.sap.com/docs/DOC-58532

What's new in BI 4.2?
 What's New 4.2 L0, L1, L2, Web Intelligence, Semantic Layer

What's new in Web Intelligence 4.2 SP03
 What's New in WebI 4.2 SP03

Roadmaps on SAP Service Marketplace http://service.sap.com/saproadmaps

• Official tutorials for SAP BI http://sap.com/learnbi

Product Documentation http://help.sap.com/

Product Availability Matrix https://support.sap.com/release-upgrade-maintenance/pam.html

• BI4.2 pattern books how to adopt BI4.2 from previous version?

Upgrading/Updating/Migrating to BI 4.2 Virtual Technical Workshop
 BI 4.2 Upgrade Virtual Technical Workshop

Where to go to provide product feedback and ideas

• SAP Idea Place https://ideas.sap.com

Influence programs
 http://service.sap.com/influence