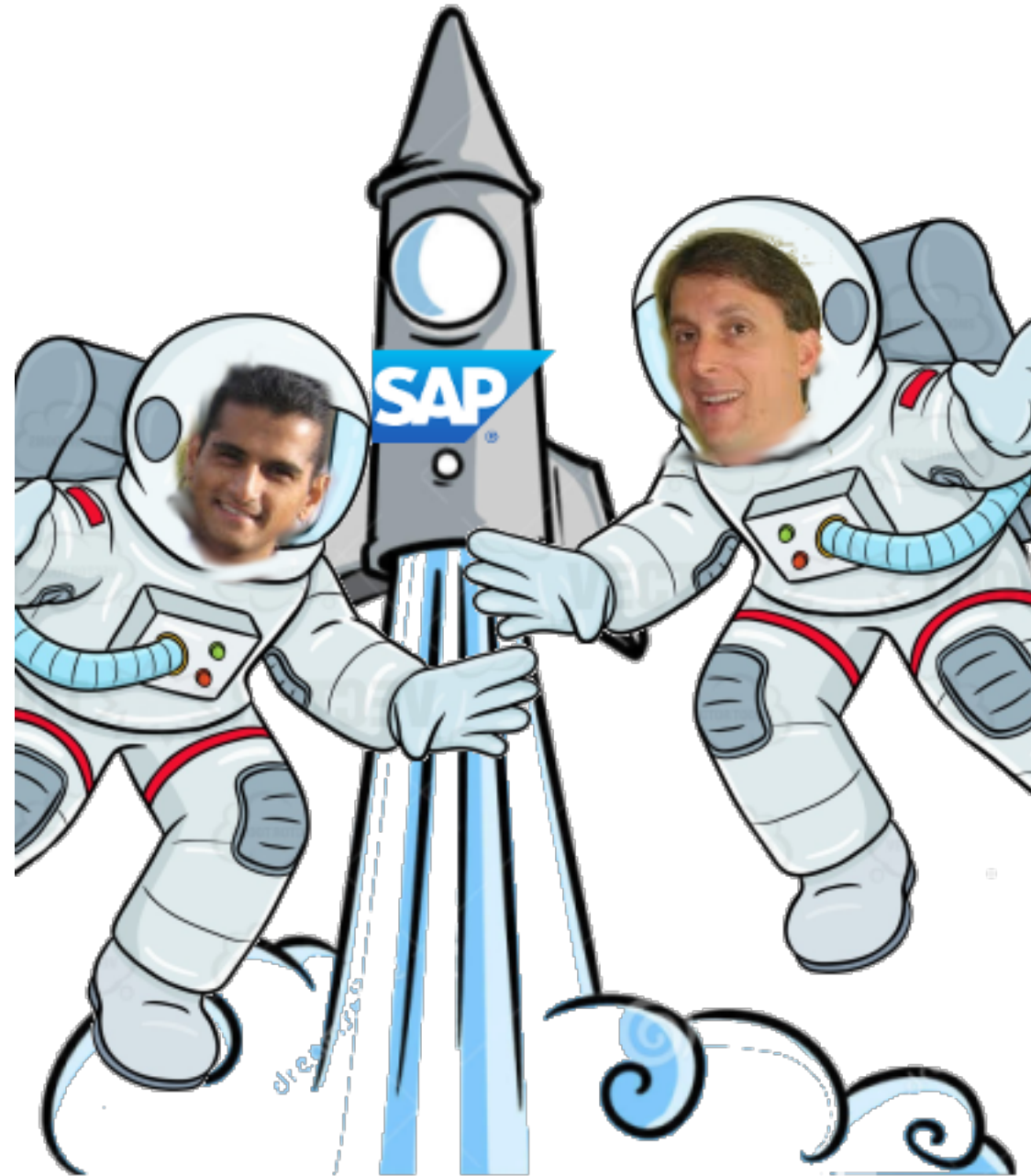


Blast-Off to BI 4.2!



Agenda

- Introduction
- What's New with *Web Intelligence*
- Expanding the *Semantic Layer*
- Powering up the *Platform*
- Conclusion



Introduction

Reintroduce yourself to BusinessObjects!

- Many new features have been added
- Focus on the most important:
 - ▶ Features from v4.2 specifically
 - From SP2 (now)
 - From SP3 (brand new, GA within the next few weeks)
 - ▶ Also touches on several features added to v4.1
- Look in the right hand corner for the version that applies

4.1 SPx

4.2 SP2

4.2 SP3



Agenda

- Introduction
- What's New with *Web Intelligence*
- Extending the *Semantic Layer*
- Powering up the *Platform*
- Considering new *Products*
- Conclusion





Parallel Data Providers

Run queries from data providers at the same time!

- Past versions ran SELECT statements sequentially
- This can have a dramatic effect on overall refresh time
 - ▶ Consider refreshing a document with 4 data providers
 - ▶ Assume each data provider takes 1 minute to run
 - ▶ Rather than 4+ minutes overall ...
 - ▶ ... it may take slightly more than a minute
- *Some limitations:*
 - ▶ Limited to running 4 in parallel currently per universe connection
 - ▶ Database must be able to support the higher load
 - ▶ Multi-SELECT SQL will still run sequentially
 - ▶ Turned on/off for the entire BusinessObjects environment through config files



Parallel Data Providers



4.2 SP3

Several **HUGE** improvements in SP3

- Supports SAP BW data providers
- Controlled by universe connection / CMC rather than config file
 - ▶ Relational: Using .UNV (Universe Designer) and .UNX (Information Design Tool)
 - ▶ OLAP: Using CMC and Information Design Tool
 - ▶ CMC has options to activate parallel queries for scheduling per Webi Processing Server
- Number of queries in parallel no longer capped at 4

DP1 →
DP2 →
DP3 →

Maximum Parallel Queries per document:

64

☒ Enable Parallel Queries for Scheduling



These improvements make this feature “usable” in most environments. Priority processing is now a reality!

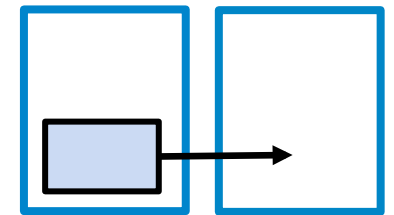
Shared Elements



4.2 SP2

Share Webi report parts with other documents and users

- Report parts are blocks like tables and charts
- These report parts are stored in the BusinessObjects system repository
 - ▶ Includes anything used by that report part
 - * Data providers
 - * Formulas
 - * Variables
 - * Formats
- **HUGE** potential for reusability
 - ▶ Many Webi documents can share the same element
 - ▶ Shared elements can be updated independently



There are ways you can use this feature to simulate your own variable repository between documents

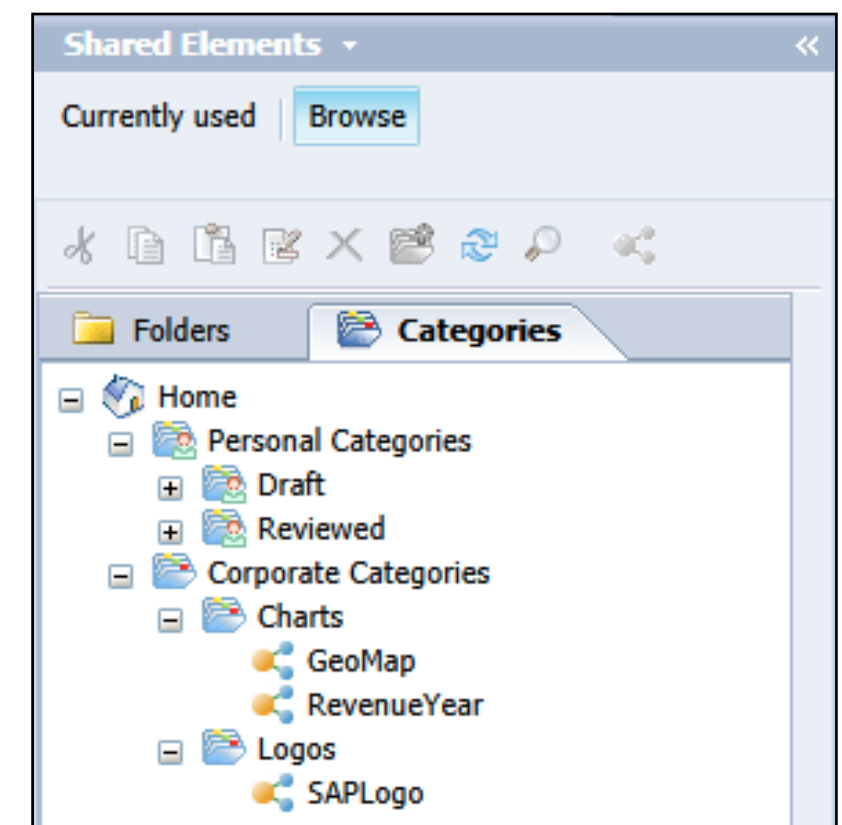
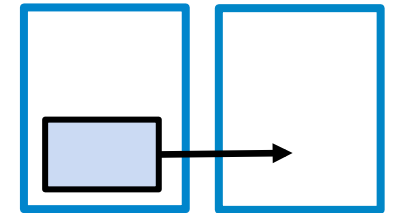
Shared Elements



4.2 SP3

Continues to improve ...

- Covers more block types like geo maps, custom elements
- Measures designated as Big Numbers can be stored
- Background images within the block can be stored
- Categories can be created to group the elements
- Several enhancements that make shared elements easier to use





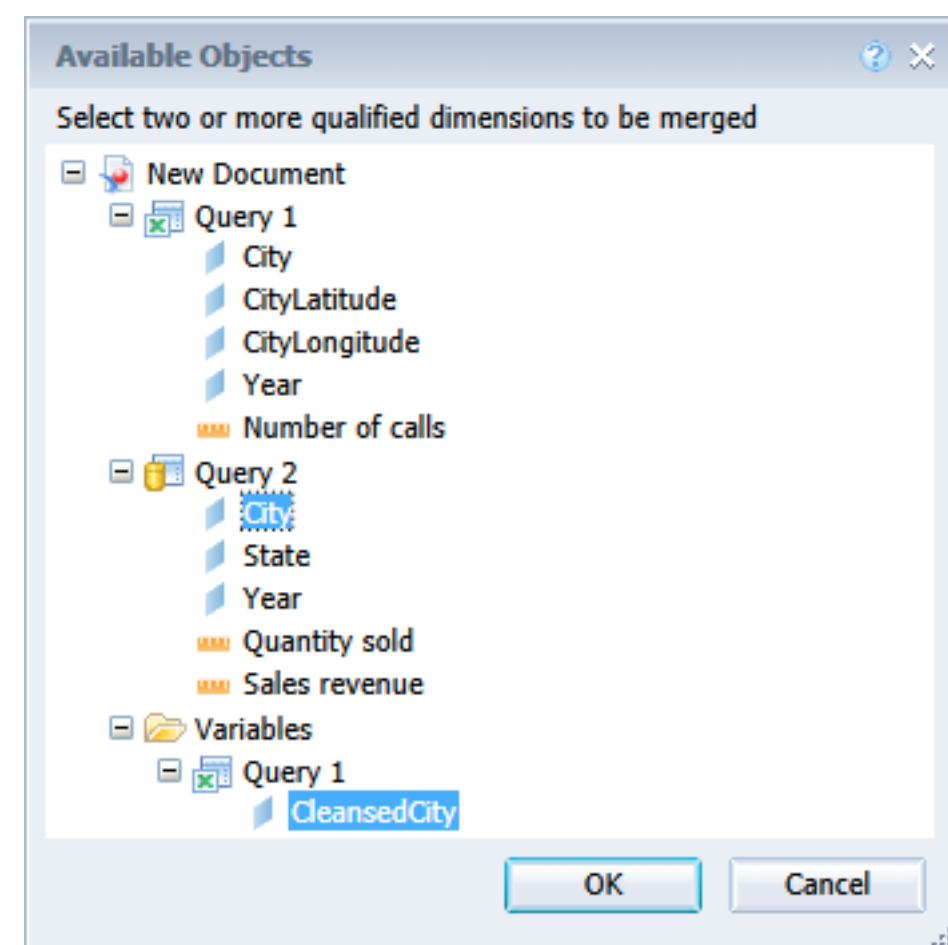
Merged Variables

A feature needed forever is now a reality

- Allows users to change values via formula before merging them
- Previously, only query dimensions allowed to merge between data providers
 - ▶ No way to manipulate values prior to merging
 - ▶ Required a universe change



Values between data sources often did not match. This feature allows the report developer to fix that!





Reference Variables

An easier way to manage calculations

- Allows users to refer to existing calculations in content
- Prior to this feature, users had to manually add input / output contexts
 - ▶ Not an easy concept to understand
 - ▶ Frequently misused



Once created, reference variables can be used like any other variable. The building of formulas / variables just became much easier!

Assign Reference

☒ Create a new reference for this cell

Name:

Chicago 2004

☐ Assign an existing reference to this cell

OK Cancel



Two editors morphing into one ... almost

- The dHTML editor will be Webi's editor going forward
- SP3 supports this mission by adding the following features to this editor:
 - ▶ Excel data source
 - ▶ Complex query filters
 - ▶ Conditional formatting (alerts)
 - ▶ Format number
 - ▶ Change source
 - ▶ Export As functionality
- ▶ Other functionality NOT ADDED:
 - ▶ Free Hand SQL
 - ▶ Data Manager



The Java Editor would not have lived a long life, anyway. Oracle will no longer support the Java browser plugin in a future release of Java 9 (2017+)

Cascading Input Controls



4.2 SP3

Interactive report filters that cascade

- Input controls allow users to interactively filter previously queried content
 - ▶ The value from one control, however, never affected other controls
- In SP3, controls can be placed in groups
 - ▶ The values from one control affects all the others in the group



Another dashboard-like feature added to Webi reporting. Users that use Webi for quick dashboards will love this feature.

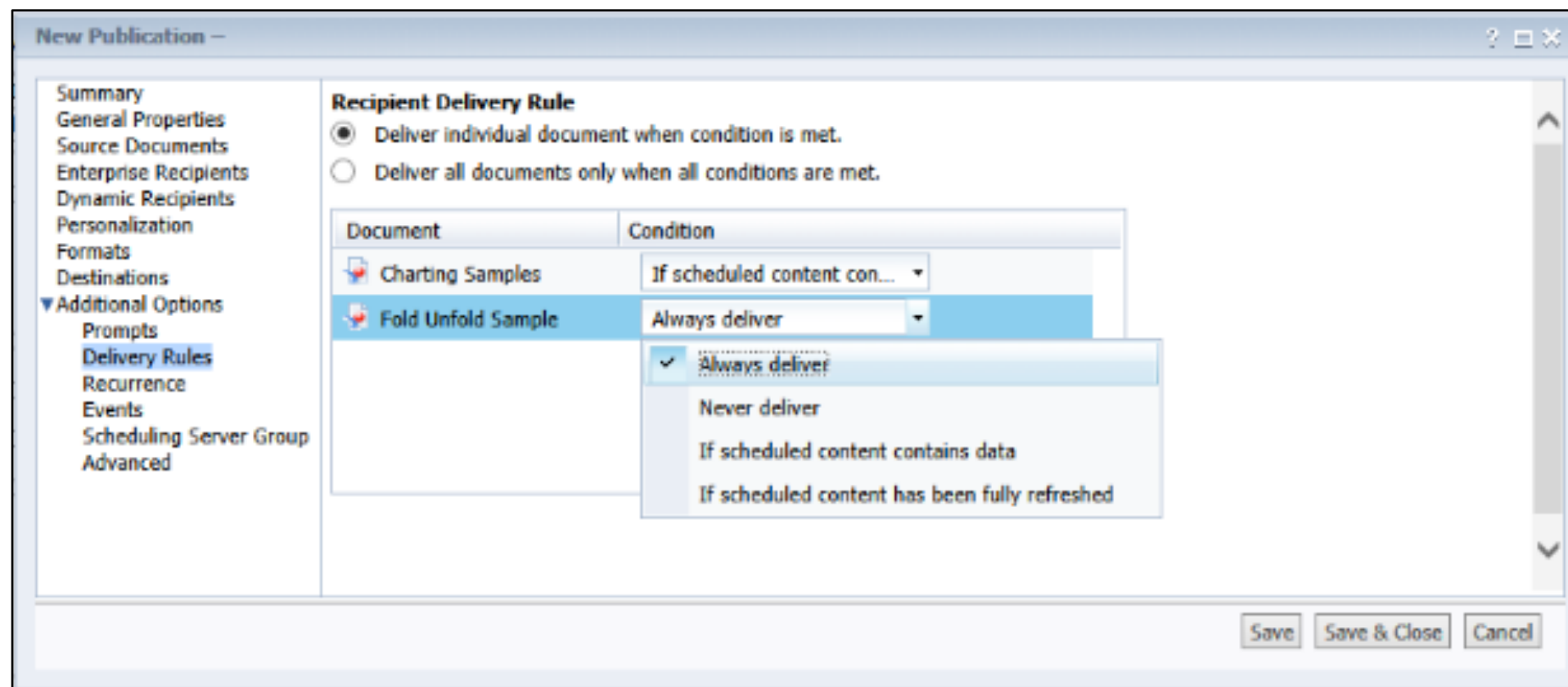
Publications



4.2 SP3

Don't send documents that are empty

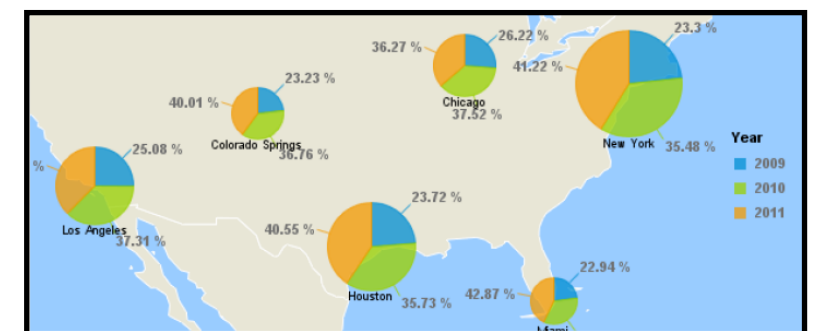
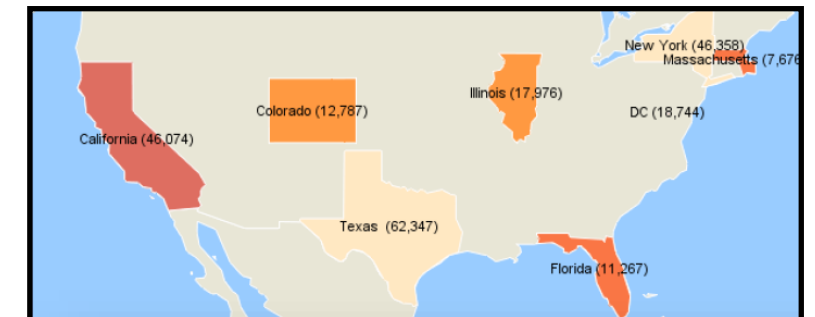
- New recipient rules for publications prevent sending:
 - ▶ Documents where no rows were returned
 - ▶ Partially refreshed documents





Benefit from Geo-Intelligence

- A geographical database is now embedded within Webi
- This allows you to link geo-specific query dimensions from your result set
- Results can be visualized on a map
- Four different layers
 - ▶ Country
 - ▶ Region
 - ▶ Subregion
 - ▶ City





Geomap Considerations

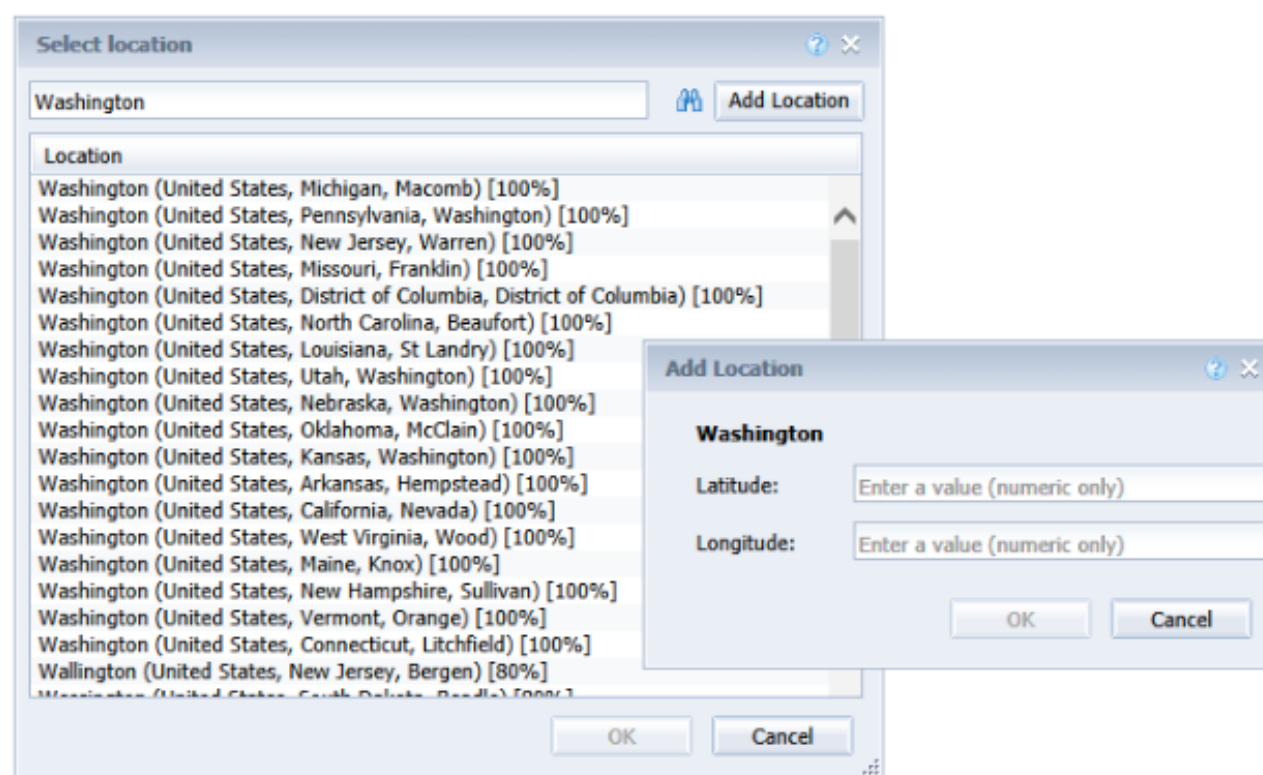
- Only query-based dimensions can be used for mapping
 - ▶ Variables created in the document are not eligible
- Geographical levels do not extend forever
 - ▶ Example: Cities would match against actual cities with 150k+ populations
- Geographical database is several MB large
 - ▶ This may cause a small delay the first time you download it if using the Java editor
 - ▶ No delay when using the HTML editor





Geomap Improvements

- Can now use latitude / longitude to qualify a dimension
 - ▶ Lat/long can be specified using other dimensions
 - ▶ Lat/long can also be entered manually
- More than query dimensions can be geo-qualified:
 - ▶ Variables, merged dimensions, and merged variables now qualify



Latitude/longitude allow you to extend the embedded geo database provided by Webi



HANA Direct Access

- Create queries against HANA views without a universe!
 - ▶ Web will create a temporary universe for you behind the scenes
- Still uses a query panel
- Support for relational SQL and OLAP MDX
 - ▶ Hierarchical navigation supported
- That universe will be built from the view as follows:



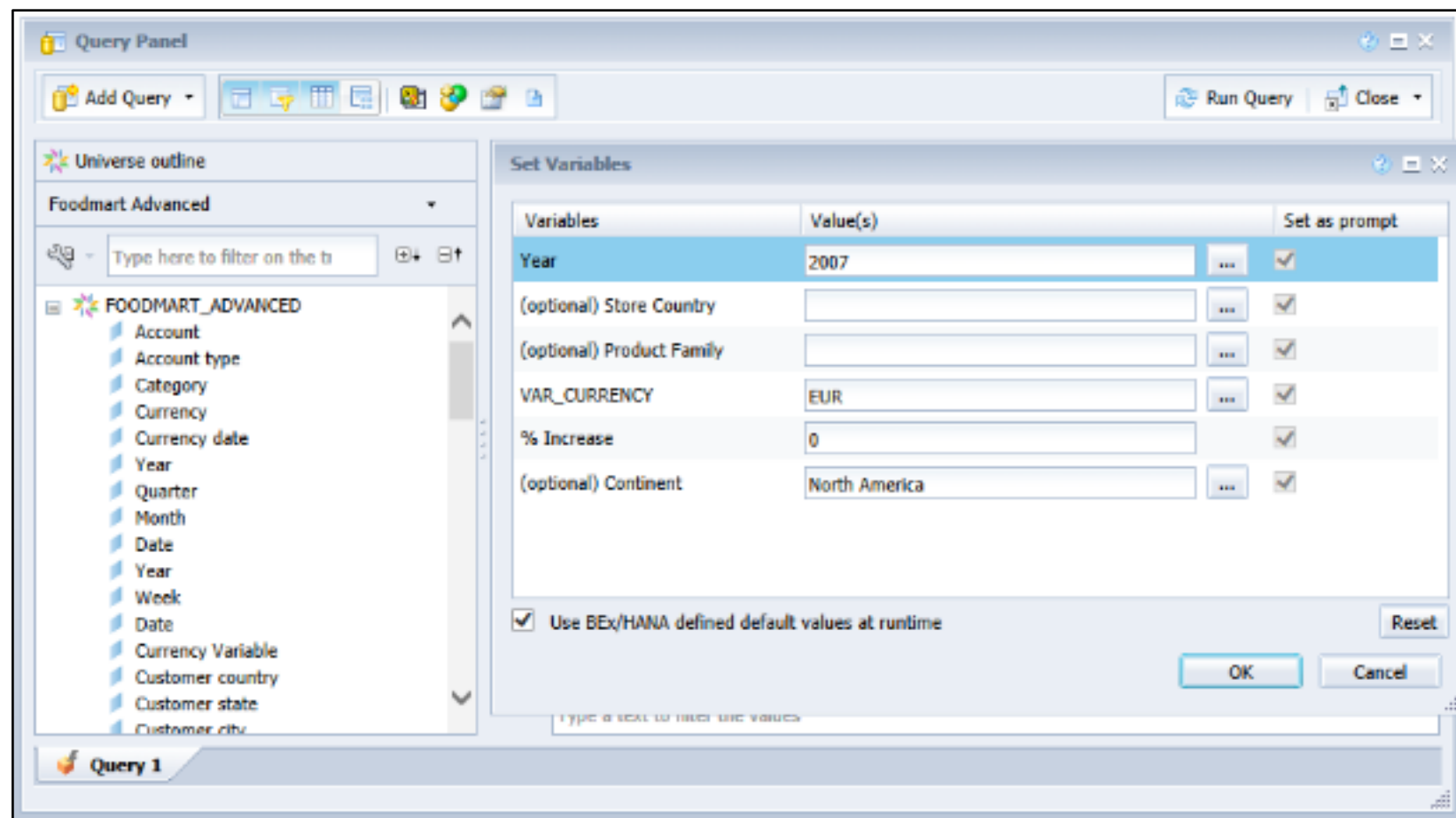
HANA View	Transient Universe
Attribute views	Folders
Attributes	Dimensions under the appropriate Attribute view folder
Calculated, restricted columns	<same>
Measures	Measures
Aggregated measures (SUM, COUNT, MIN, MAX)	Delegated measures except for SUM
HANA variables, input parameters	Universe Prompt parameters

HANA Direct Access



4.2 SP3

- Set Variables window provided
 - ▶ Used to fix variable values, avoid having to set them for every refresh
 - ▶ When answering the variable, interval and range operators are supported



HANA Online Mode



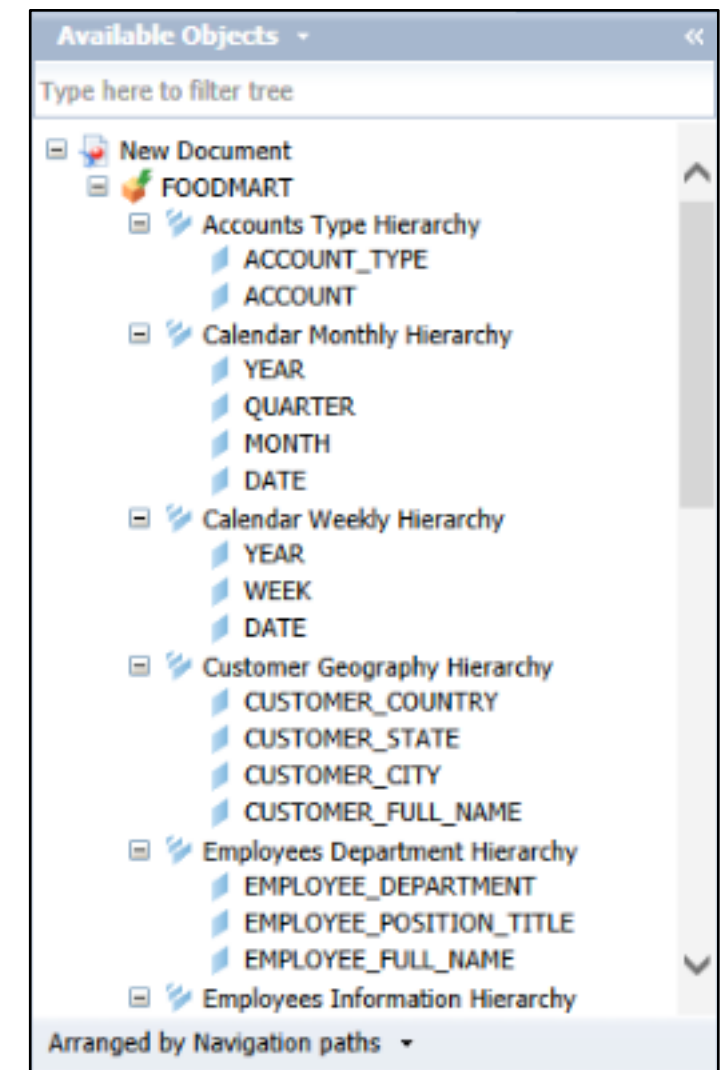
4.2 SP2

- Like Direct Access, but skips the Query Panel
 - ▶ Build queries directly on HANA views
- All calculations given to HANA to perform
- Web will create a transient universe for you behind the scenes
- Only relational database support at this point
 - No MDX / OLAP
 - No support for hierarchical navigation





- Additional enhancements
 - ▶ Partial results icon added to alert when not all possible rows were retrieved
 - ▶ Navigation path option added that displays objects within their natural hierarchies





- Additional enhancements
 - ▶ dHTML Query Panel for SAP BEx and BEx data providers
 - ▶ Parallel query support for BEx
 - ▶ QuerySummary now returns data on BW InfoProvider's last upload
 - ▶ SAP BW linked nodes now supported for UNIX based on BW
 - ▶ For queries based on BEx queries, usage stats sent to BW
 - ▶ New Change Source wizard works with BW direct access data providers
 - ▶ Proposes possible move to HANA Direct Access
 - ▶ Also BEx-Sourced universes

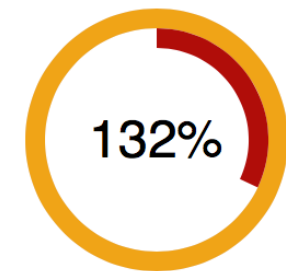
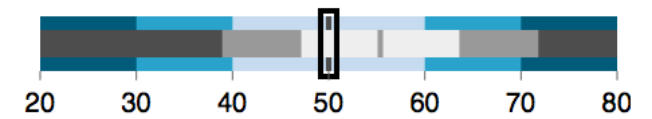
Visualization Extensions



4.2 SP2

Add data-driven visuals on your own

- Create your own visuals and integrate them with Web Intelligence
 - ▶ Possible to reuse these visualizations in other SAP tools like Lumira, Design Studio
- Processing is done by your programs external to Webi
- Allows developers to port visualizations from sites like d3js.org



This is your chance to add to the library of visualizations used by Webi (and Lumira)

BI Commentary



4.2 SP2

Add your own comments to a Webi report

- Comments can be added to a report or report section
 - ▶ Section comments can be specific to a specific section
 - * Country = 'USA'
- Users can read and respond to comments
- Document owner can read and validate all comments
- All comments stored in a relational table
 - ▶ Part of the Audit DB or elsewhere

Comments ▾

Confirmation

cas

Update 8/29/2015 11:57:37 PM, 2 minutes ago

Have you reviewed these figures?

Yes

OK Cancel

BI Commentary



4.2 SP3

Comment on more things!

- Comments can be added to a block or cell
 - ▶ Even applies to cells within a block
- Excel-like indication that comment was added

State	Sales revenue	Quantity sold
California	\$7,479,569	46,074
Colorado	\$2,060,275	12,787
DC	\$2,961,950	18,744
Florida	\$1,879,159	11,267
Illinois	\$3,022,658	17,976
Massachuset	\$1,283,707	7,676
New York	\$7,582,221	46,358
Texas	\$10,117,664	62,347
	Sum:	223,229

cas
Jul 22, 2016 12:29:45 PM
An overall strong quarter!



Web 4.1 Feature Catchup

- The next few slides cover features that were added for various Service Packs for 4.1
- Thought you would like to know ...

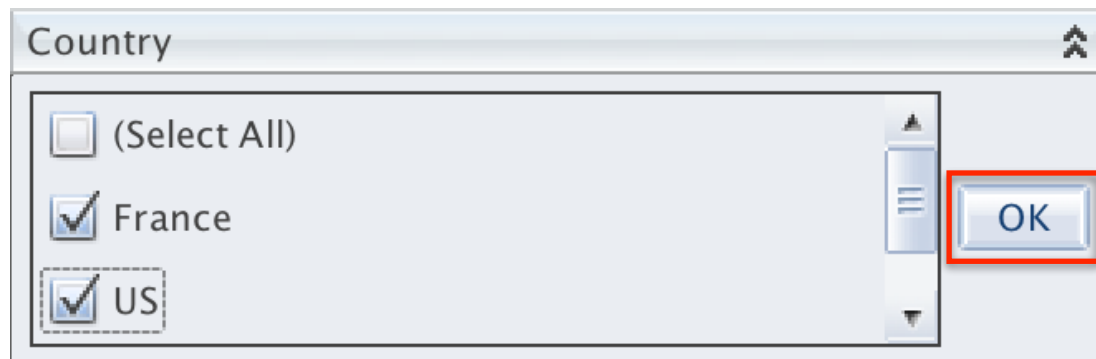


Input Controls



4.1 SP5

- OK button allows all selections to be seen collectively



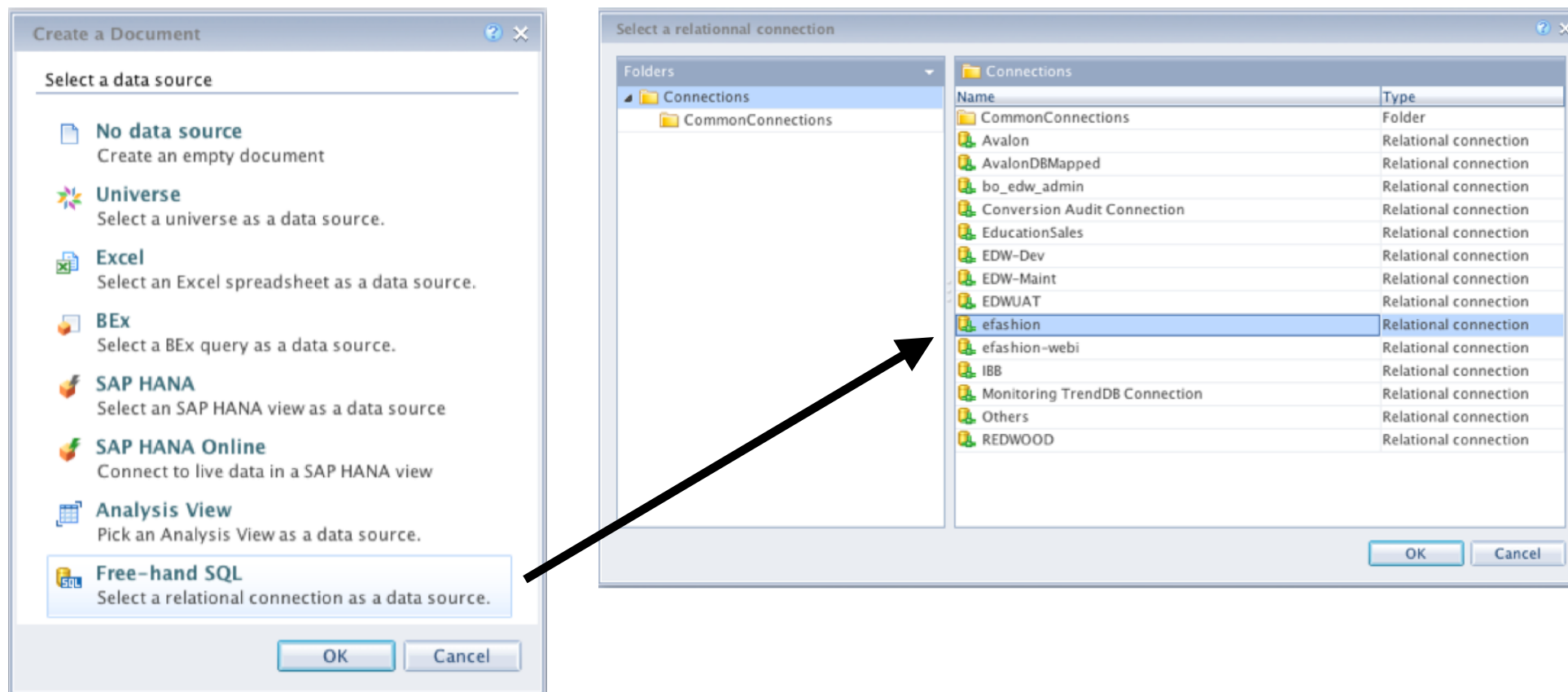
The OK button allows a user to check multiple boxes while postponing filtering the report. Only when the OK button is selected will the selected values filter the selected report or document.

Free Hand SQL (FHSQL)



4.1 SP6

- Can be added by using any existing connection



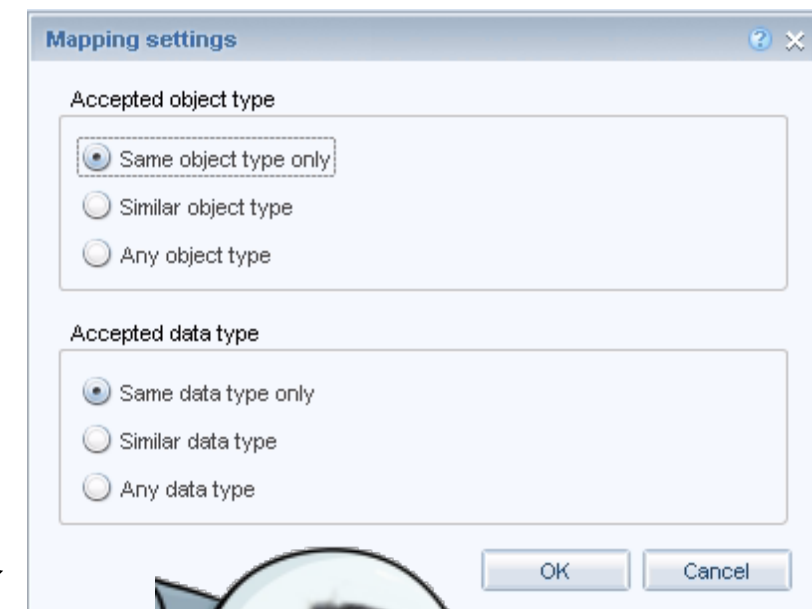
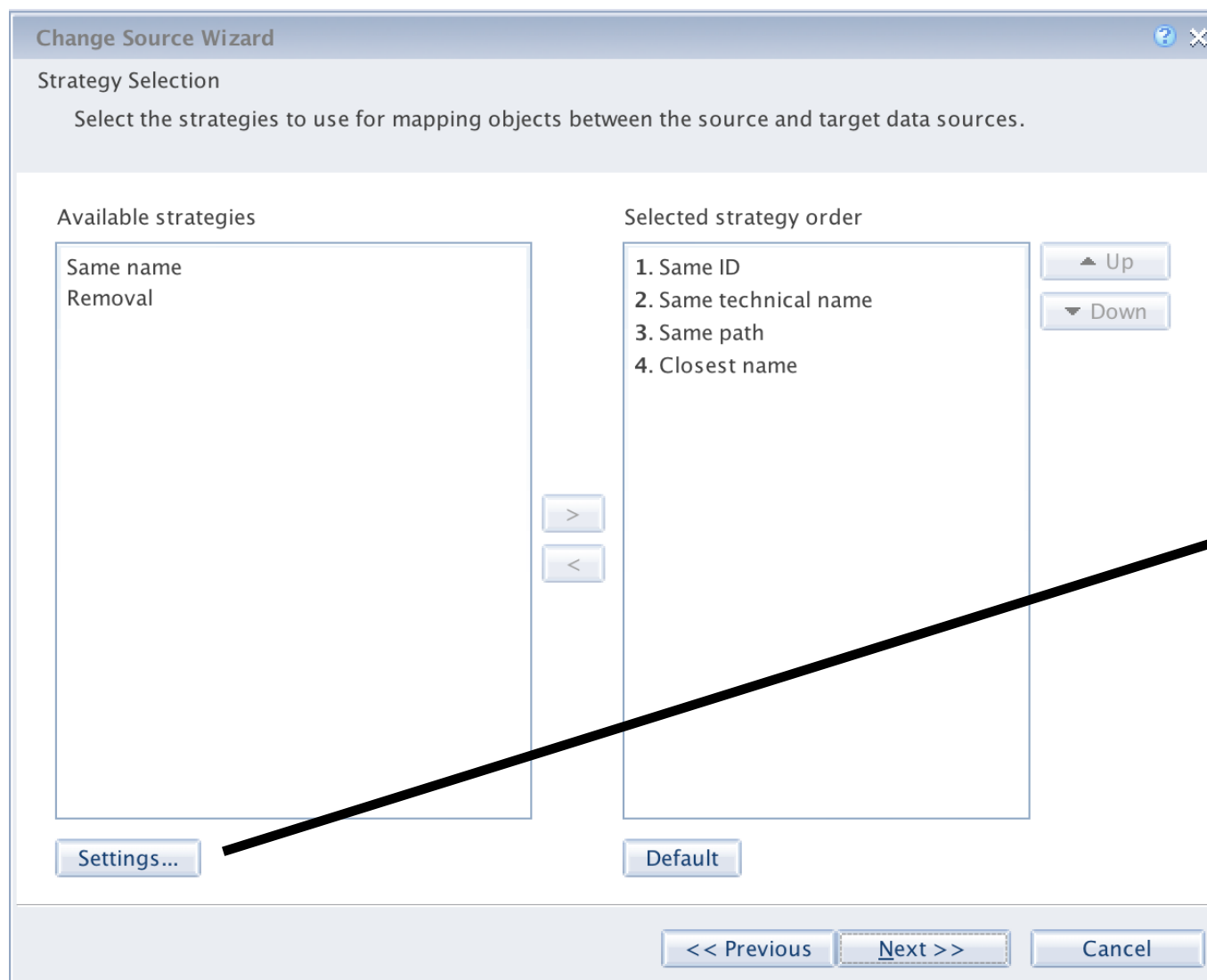
This is a good start but not refined enough for most customers. No direct set of permissions for FHSQL means that users that use it can also edit universe-based queries

Change Source Wizard



4.1 SP6

- More control on how objects are mapped
- Very useful when the new source is not an exact match



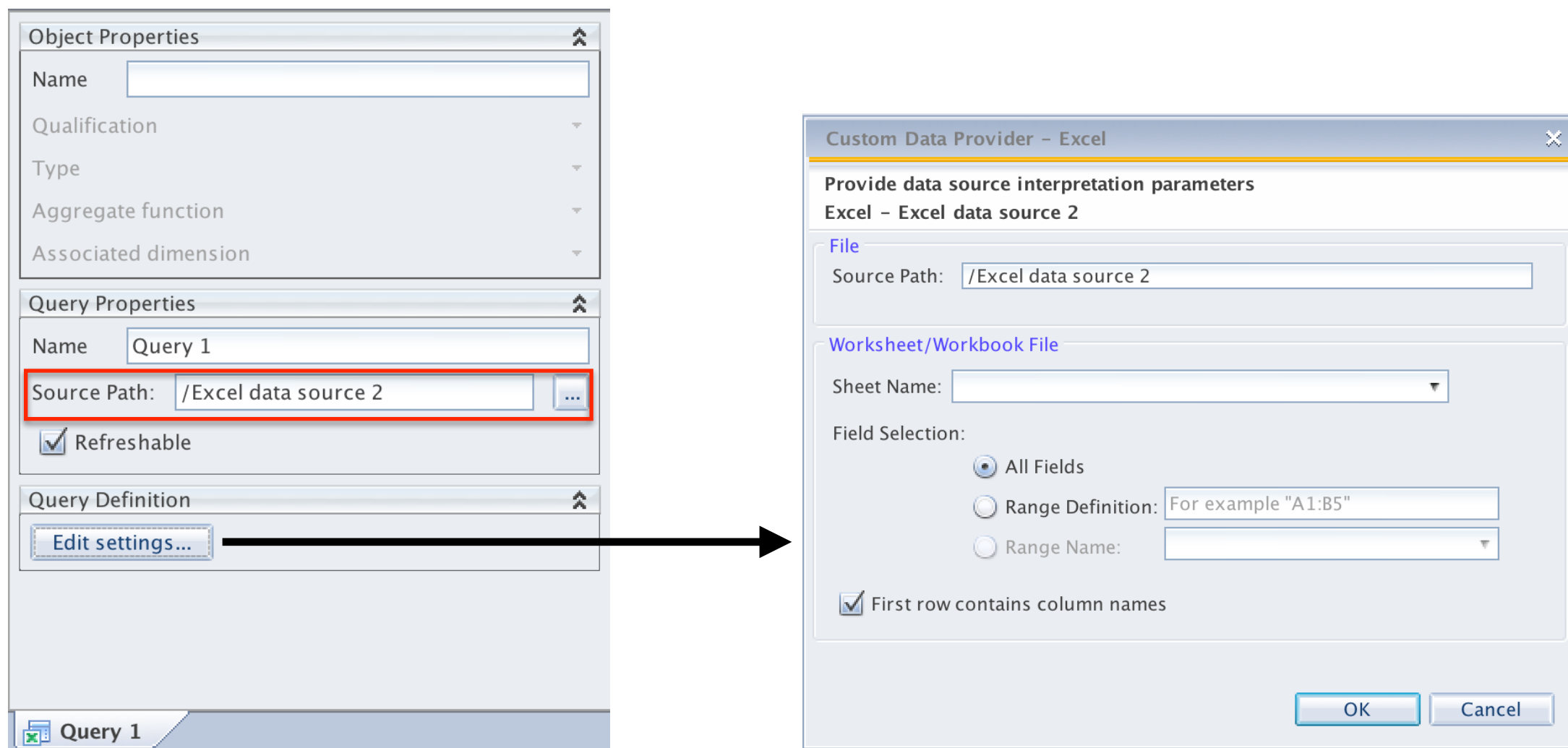
You would use this new feature when changing the data source for an existing query.

Excel Data Sources



4.1 SP6

- Connections can be re-established
 - ▶ Uploading a new workbook to BusinessObjects Enterprise
 - ▶ Connecting to a different workbook from a different location





- SAP BW Specific
 - ▶ Save variable value sets as a prompt variant
 - ▶ Allows user to select a variant with preselected values

The screenshot displays the 'Prompts' dialog box in SAP BW. The main window has a title bar 'Prompts' and a close button. Below the title bar is a field for 'Available prompt variants'. The main area is divided into two panes. The left pane, titled 'Prompts Summary', lists two prompts: '* Enter values for City: London; Paris' and '* Enter values for Country: UK; France'. The right pane, titled 'Enter values for City:', contains a 'Type a value:' text box, a 'Selected Value(s)' list box showing 'London' and 'Paris', and a list of cities: 'Quebec', 'Toronto', and 'Vancouver'. A 'Create variant' sub-dialog box is open in the center, with a 'Name:' field containing 'Europe' and 'Save' and 'Cancel' buttons. At the bottom of the main dialog, there is a timestamp 'May 29, 2015 4:56:14 PM GMT+02:00', a search pattern field, and 'OK' and 'Cancel' buttons. A footnote '* Required prompts' is visible at the bottom left.

Selecting Multiple Columns



4.1 SP6

- This is a feature that we lost from BusinessObjects v3.1

Top	Latitude	Longitude	City	Average Hou	Average Spe	Average Spe	Average Spe	Sales Reven	Total Spend
25 Cities	-30.75	121.47	Kalgoorlie	99,074	991	9,907	119	2,443,284	11,017
25 Cities	-16.92	145.77	Cairns	131,612	592	6,581	59	2,424,296	7,232
25 Cities	-42.88	147.33	Hobart	90,338	547	5,865	38	2,361,938	11,446
25 Cities	-41.07	145.92	Burnie	23,940	75	1,155	55	2,359,288	11,990
25 Cities	-33.75	151.3	Dee W	95,854	39	1,978	36	2,343,927	8,413
25 Cities	-38.13	145.13	Frank	77	77	1,483	93	2,330,783	7,354
25 Cities	-34.6	138.73	Gawle	43,178	482	1,821	58	2,324,692	5,361
25 Cities	-25.53	152.7	Maryb	141,711	709	1,171	85	2,317,864	14,965
25 Cities	-34.75	149.72	Goulb	105,734	592	1,401	65	2,288,147	8,059
25 Cities	-28	153.43	Surfer	125,406	1,044	1,601	104	2,252,556	12,750

Austria

28,000
26,000

Country
Austria

Format Cell...

Select NULL from List of Values



4.1 SP6

- NULL is an actual value that can be selected from a List of Values
 - ▶ Satisfies the condition for no matching database information

Define Input Control

Choose Control Type
Select and define the control

Single value

- ☐ Entry field
- ☐ Combo box
- ☐ Radio buttons
- ☐ List box

Multiple values

- ☒ Check boxes
- ☒ List box

Select several values from a scrollable list.

Label State

Description

List of Values All values from report

Use restricted list of values ☐ Yes

Default value(s)

Allow selection of all values ☒ Yes

Allow selection of null values ☒ Yes

Operator In list

Number of lines 5

<< Previous Next >> Cancel



- Welcome addition when creating formulas / variables in the HTML Editor
 - ▶ Always available for the Java editor

Create Variable

Definition

Name:

Type:

Qualification:

Formula

Available Objects

- Fold
- Unfold
- Sample
- City
- Lines
- State
- Year
- Sales revenue
- Variables

Available Functions

- Aggregate
- Average
- Count
- First
- Interpolation
- Last
- Max
- Median**
- Min
- Mode
- Percentage
- Percentile

Available Operators

=	<	<=	<>	>	>=
.	+	-	/	*	()
Index	InList	Leaves	Linear	MillisecondPeriod	MinutePeriod
MonthPeriod	NoNull	Not	NotOnBreak	Or	Print

Description

num Median(measure)
Returns the median (middle value) of a measure

[More on this function](#)

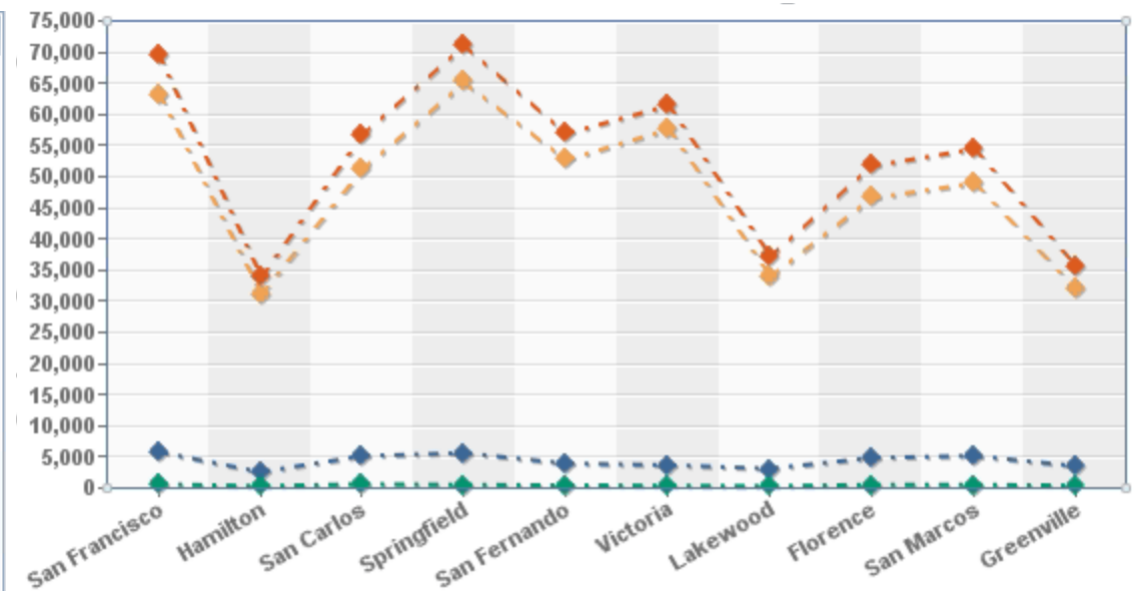
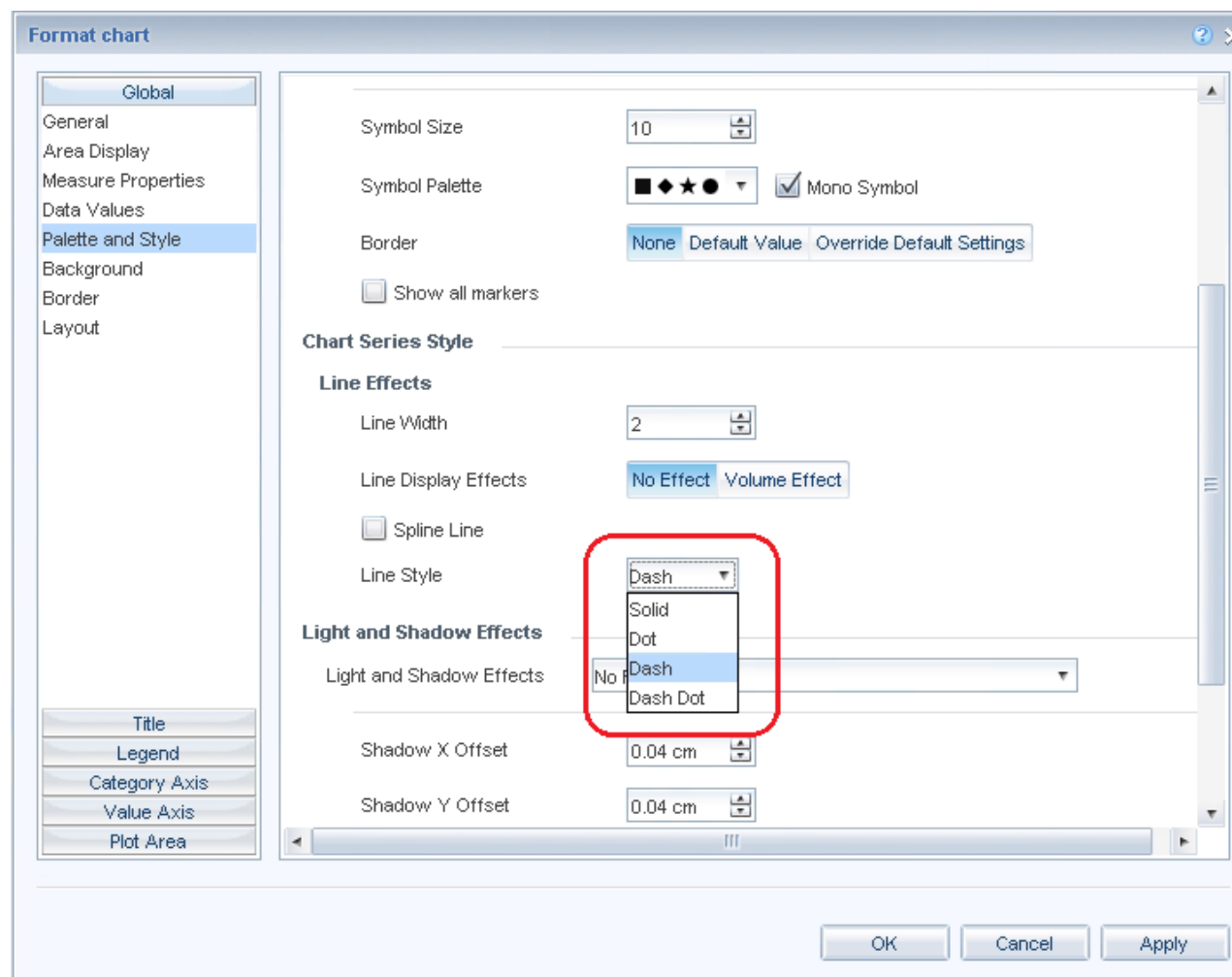
OK Cancel

Chart Line Styles



4.1 SP6

- Different line styles available when creating a chart
 - ▶ Dashed, dotted, and various combinations



Print Settings



4.1 SP6

- Lost this capability when we moved to BI 4.1
 - ▶ Control margins, page orientation, Fit to Print, ...

The screenshot shows a 'Print' dialog box with the following sections:

- Print Range:** Includes radio buttons for 'All Reports', 'Current report', and 'Pages'. Below 'Current report' are radio buttons for 'All', 'Current Page', and 'Pages' (with a text input field). A label 'Enter Page Range (Example: 1,3,5-11)' is present.
- Page size:** A dropdown menu showing 'A4'.
- Margins:** Four spinners for 'Top', 'Left', 'Right', and 'Bottom' margins, all set to '0.79 inches'.
- Scaling:** Includes radio buttons for 'Adjust to:' (set to '100 % normal size') and 'Fit to:' (set to 'Auto' for both 'page(s) wide' and 'page(s) tall').
- Orientation:** Includes radio buttons for 'Portrait' and 'Landscape', each with a small icon.

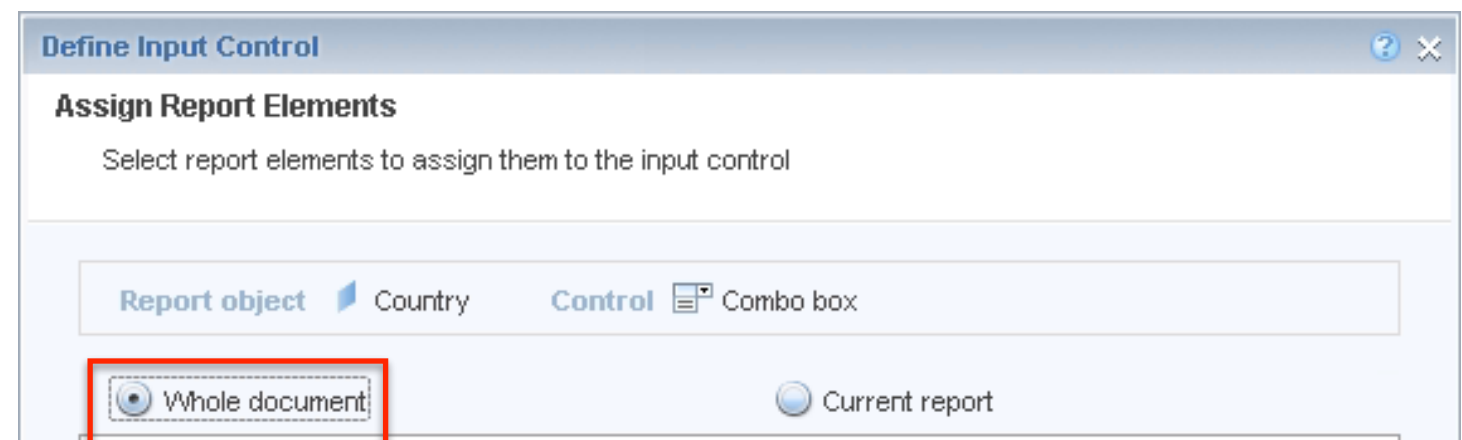
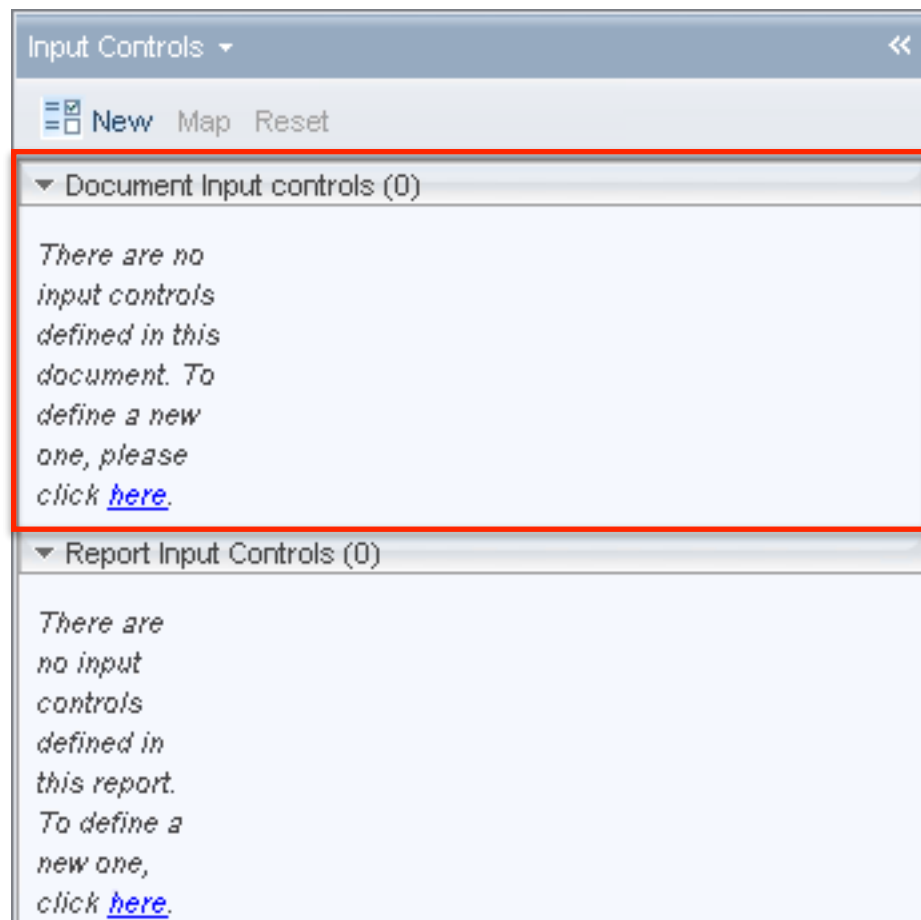
At the bottom are 'Print' and 'Cancel' buttons.

Global Input Controls



4.1 SP6

- Input controls can now filter content on all report pages



Another dashboard-like improvement for Web Intelligence.

Enhanced RelativeDate()



4.1 SP6

- Delta can be calculated in units other than Day
 - ▶ YearPeriod
 - SemesterPeriod,
 - QuarterPeriod,
 - MonthPeriod,
 - WeekPeriod,
 - DayPeriod,
 - HourPeriod,
 - MinutePeriod,
 - SecondPeriod
 - MillisecondPeriod

Syntax

date RelativeDate(start_date;num;***period***)

=RelativeDate(CurrentDate();1;WeekPeriod)

Faster Structure Mode



4.1 SP7

- Structure mode works much quicker in the HTML Editor
 - ▶ Previous changes in 4.1 made editing in Structure mode much slower
 - ▶ A big problem for complex reports
 - Many data providers
 - Many nested variables
- Still not as fast as v3.1 for good reason
 - ▶ All editing moving towards HTML editor
 - ▶ Java applet allowed users to use Structure mode locally (their laptops)
 - ▶ Now, all structure-related changes are processed by the BI servers

=ReportName()

=NameOf([Event Id]) =NameOf([Event StartTime])	
= [Event Id]	= [Event StartTime]



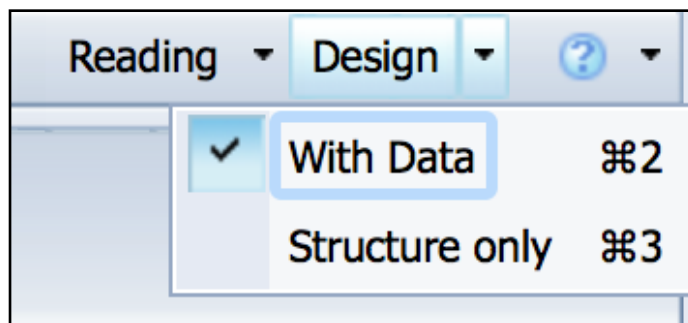
HUGE fix for those who create and edit complicated documents.

Last Editing Mode Saved



4.1 SP7

- Lost when we moved to BI 4.1
 - ▶ Data or Structure mode
 - ▶ Save a report in Structure mode - it now opens in Structure mode
- This will make a big difference for certain complex reports



HUGE fix for those who edit complicated documents. Opening an existing document takes much more time otherwise.

OpenDocument / No Toolbars



4.1 ?

- Undocumented parameter to OpenDocument to hide toolbars and left-side panels
 - ▶ **&mode=win**
- Works in 4.1 but is not supported

Detail Report

Year	State	City	Sales revenue
2004	California	Los Angeles	\$7,861,097
2004	California	San Francisco	\$5,772,590
2004	Colorado	Colorado Springs	\$3,586,412
2004	DC	Washington	\$5,545,684
2004	Florida	Miami	\$3,247,881
2004	Illinois	Chicago	\$5,903,314
2004	Massachusetts	Boston	\$1,910,550
2004	New York	New York	\$13,341,566
2004	Texas	Austin	\$4,488,987
2004	Texas	Dallas	\$3,417,958
2004	Texas	Houston	\$9,690,474

VS

Year	State	City	Sales revenue
2004	California	Los Angeles	\$7,861,097
2004	California	San Francisco	\$5,772,590
2004	Colorado	Colorado Springs	\$3,586,412
2004	DC	Washington	\$5,545,684
2004	Florida	Miami	\$3,247,881
2004	Illinois	Chicago	\$5,903,314
2004	Massachusetts	Boston	\$1,910,550
2004	New York	New York	\$13,341,566
2004	Texas	Austin	\$4,488,987
2004	Texas	Dallas	\$3,417,958
2004	Texas	Houston	\$9,690,474

Agenda

- Introduction
- What's New with *Web Intelligence*
- Extending the *Semantic Layer*
- Powering up the *Platform*
- Considering new *Products*
- Conclusion



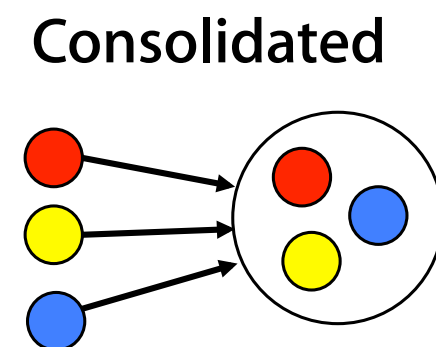
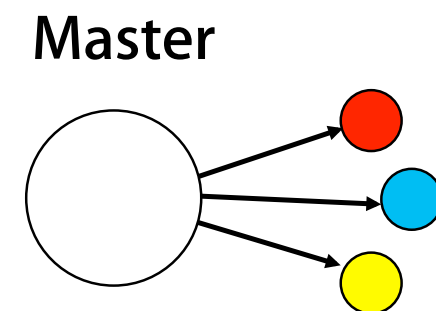
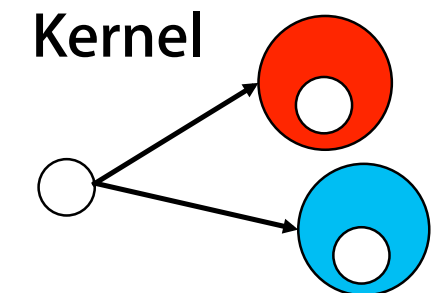
Linked Universes



4.2 SP2

Reuse pieces of the existing universe to build others!

- Reusable components:
 - ▶ Data Foundation (tables, joins, parameters, calculated columns)
 - ▶ Business Layer (folders, objects)
- Why?
 - ▶ Reduce the time and effort to build a new universe
 - ▶ Minimize duplication
 - ▶ Minimize maintenance
 - * Centralize core components
 - ▶ Allow multiple teams to work on distinct portions of the semantic layer



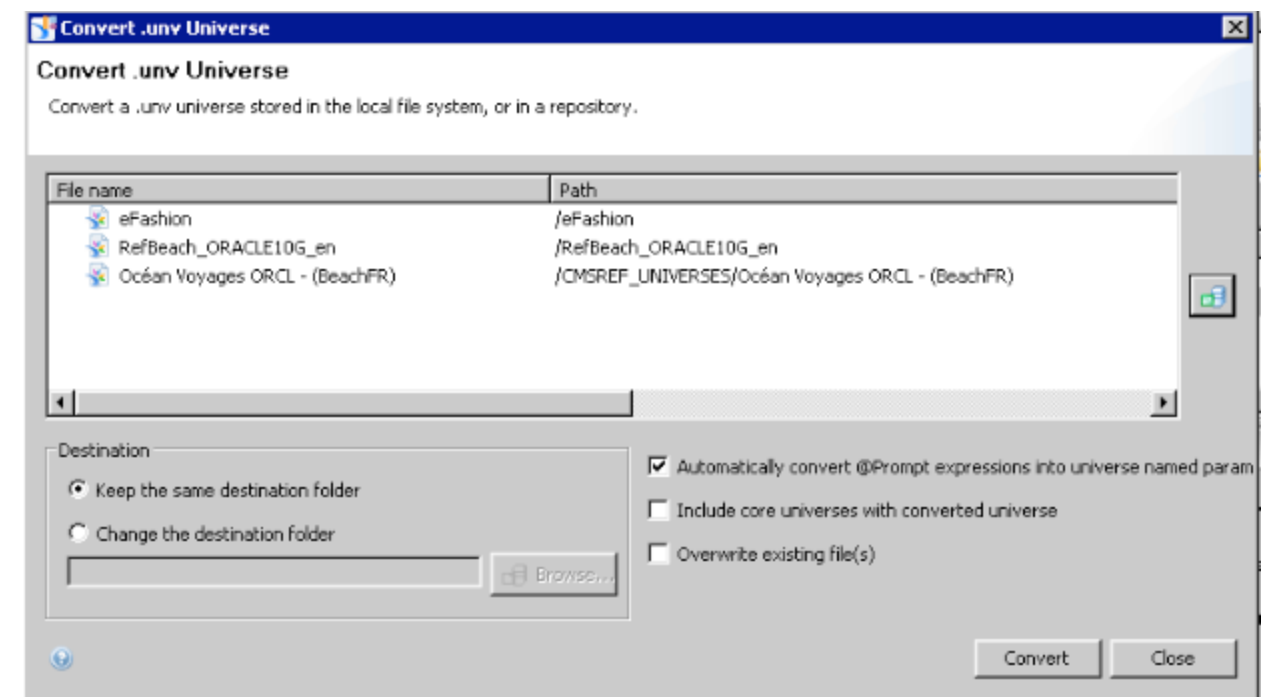
Linked Universe Enhancements



4.2 SP3

Converting from .UNV linked universes!

- Information Design Tool improvements
 - ▶ .UNV wizard now allows conversion of legacy linked universes
 - ▶ Several universes can be converted at once
- Other linked universe improvements
 - ▶ Derived universe can be based on business layer / data foundation from core universe
 - ▶ Can remap linked universe to another core universe



BEx Query Universes



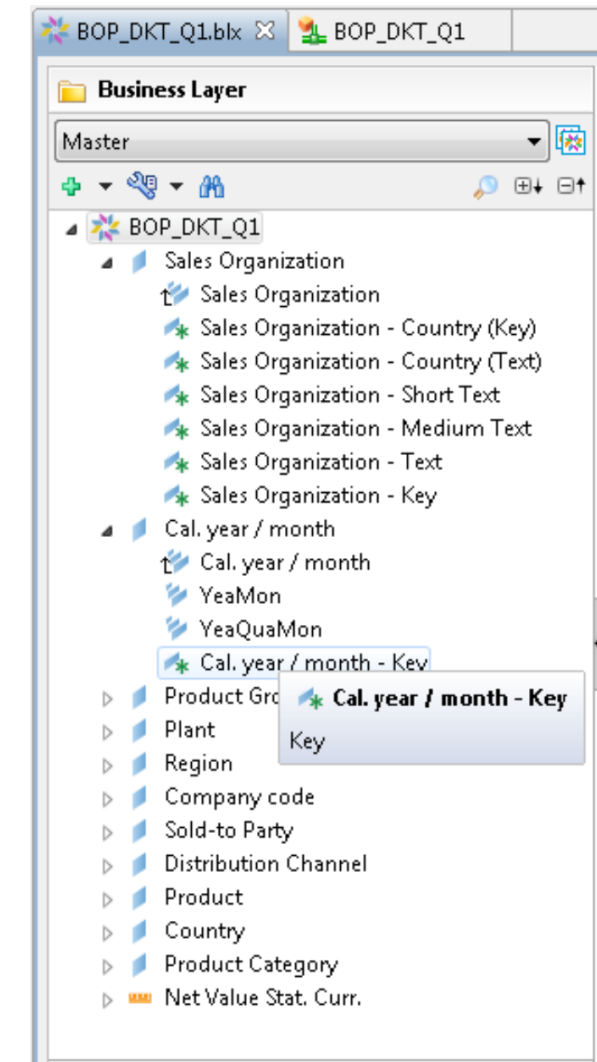
4.2 SP2

Build universes directly from a BW BEx query

- Why?
 - ▶ Consume the BEx query selectively
 - ▶ Format & reorder measures, dimensions, and hierarchies
- A few limitations:
 - ▶ Single-source universes only
 - ▶ Navigation paths, parameters, and list of values not supported
 - ▶ Cannot edit the OLAP query
 - ▶ Data Foundation is created automatically and cannot be edited



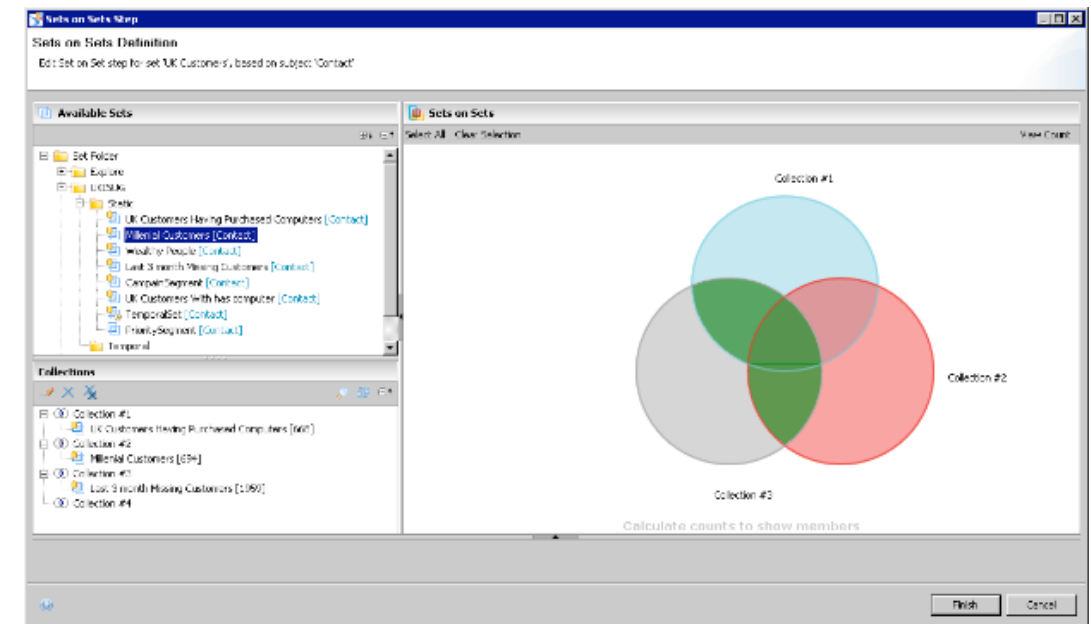
Critical for BEx users that want to selectively retrieve results.





Add set analysis without the SQL

- Use Information Design Tool to define the sets
 - ▶ Sets based on objects from a .UNIX universe
 - ▶ Set can be combined using UNION, INTERSECT, MINUS
- The Central Management Console plays a part
 - ▶ Set definitions are stored in the CMS database
 - ▶ Sets can be scheduled from the CMC
 - ▶ Results of sets are stored in a database for fast filtering
- Web Intelligence users benefit
 - ▶ Sets appear as filters in queries
 - ▶ Can query for members that have joined / left / stayed during a specified period



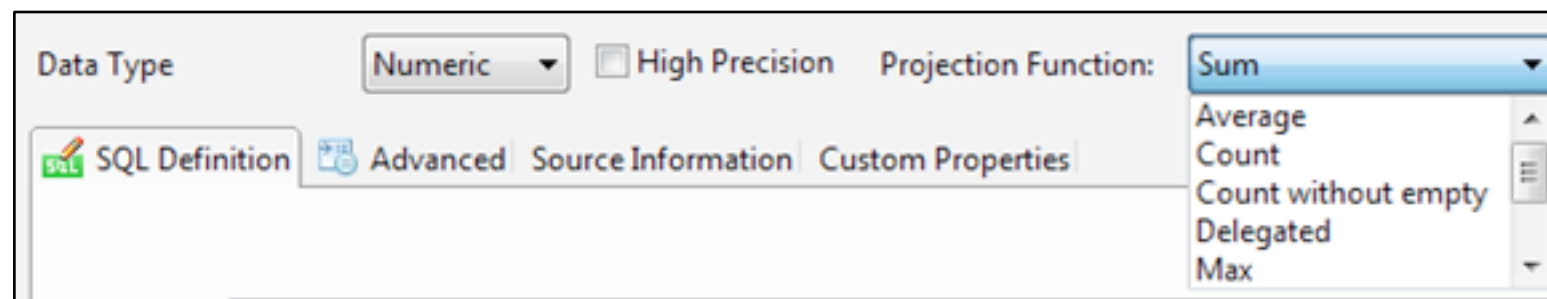
This is a legacy technology from years ago that has been reintroduced. This version is more streamlined and integrated with Webi.

Measure Improvements



4.2 SP3

- COUNT with or without NULLs
 - ▶ Skip empty values (.UNX default) or not (.UNV)
- Mark certain measures as high precision
 - ▶ Big Numbers feature added in 4.2
 - ▶ Now moved to semantic layer vs. definition in document



The Big Number feature had problems when specified within the report. This solution is much better (and reusable).

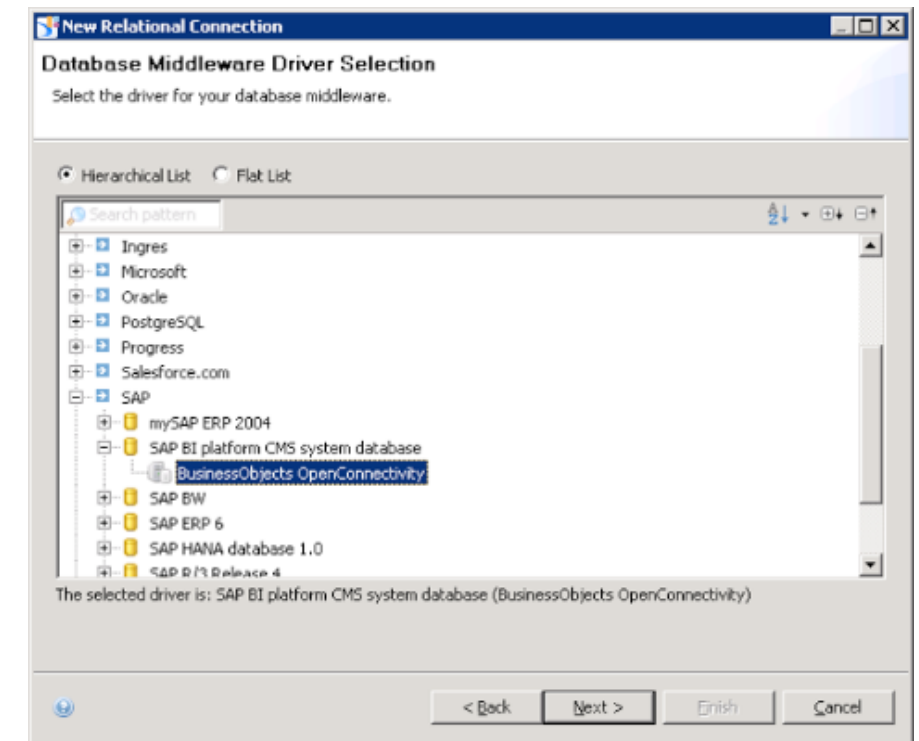
CMS Repository Driver



4.2 SP3

Limited Queries against the CMS Repository

- Use Information Design Tool to define the connection
 - ▶ Relational connection only
 - ▶ Queries content from the CMS repository that would normally not be visible
- Limitations to this technology
 - ▶ No universes provided against the connection
 - ▶ Queries are real-time (no historical comparisons)
 - ▶ No deep-dive metadata analysis (querying inside documents)
 - ▶ Not integrated with Audit



Looking for a better way to query metadata? Stay tuned for Part 2 of this series!

New Data Sources



4.2 SP2

Many new sources are available

- Those of interest to most customers:
 - ▶ Apache Spark 1.2.1 (ODBC / JDBC)
 - ▶ Teradata 15
 - ▶ Vertical 7.1 (ODBC / JDBC)
 - ▶ Oracle 12c (ODBC / JDBC / Direct)



Semantic 4.1 Feature Catchup



- The next few slides cover features that were added prior to BI 4.2

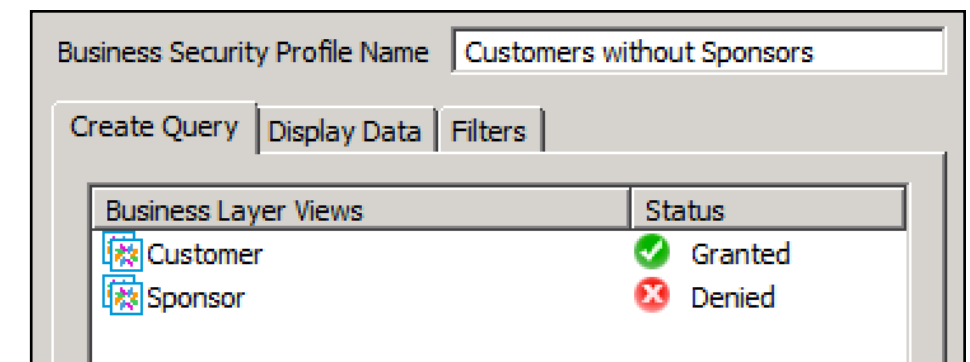
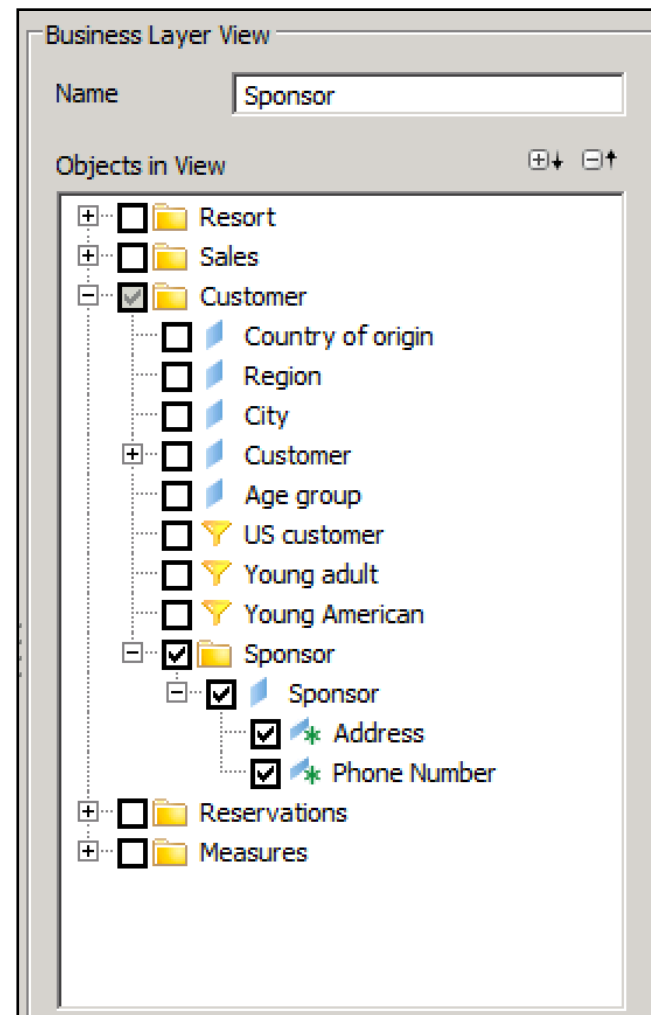
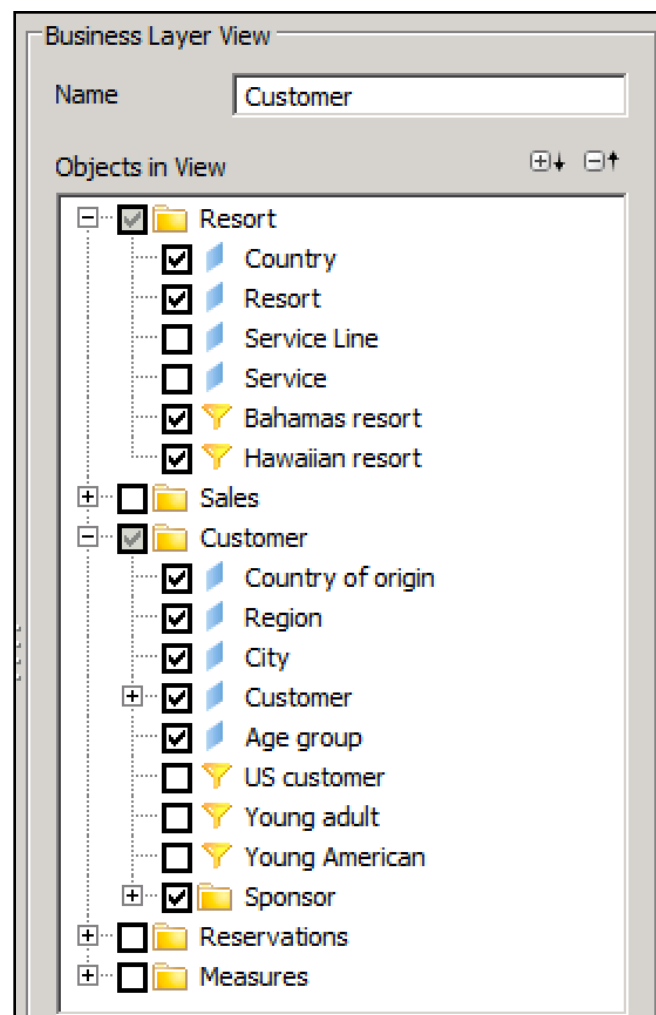


Simplified Universes



4.1 SPx

- Business layer security profiles can simplify what's presented to users
 - ▶ Folders and objects can be tailored to specific audiences
 - ▶ Those profiles can be saved and reused by name



Dynamic Prompt Defaults



4.1 SP6

- Defaults to universe-based prompts can be calculated dynamically
 - ▶ Today, Yesterday, Last Month, ...
 - ▶ Based on SQL-based formulas

Parameter: YearSelection

Name: YearSelection ☐ Hidden

Description:

Options Custom Properties

Prompt Options

☒ Prompt to users

Prompt Text: Select a year

Data Type: Numeric ☐ Allow multiple values

☐ Keep last values

☐ Index aware prompt

List of Values

Associated List of Values: [none]

☐ Select only from list

Default Values

☒ Set default values

☐ Constant ☒ Formula

Year(CurrentDate())

HANA Input Parameters



4.1 SP6

- Input parameters can now accept multiple values
 - ▶ Parameters drive HANA views as arguments
 - ▶ Like prompts from a traditional universe perspective

OLAP Universe Restrictions

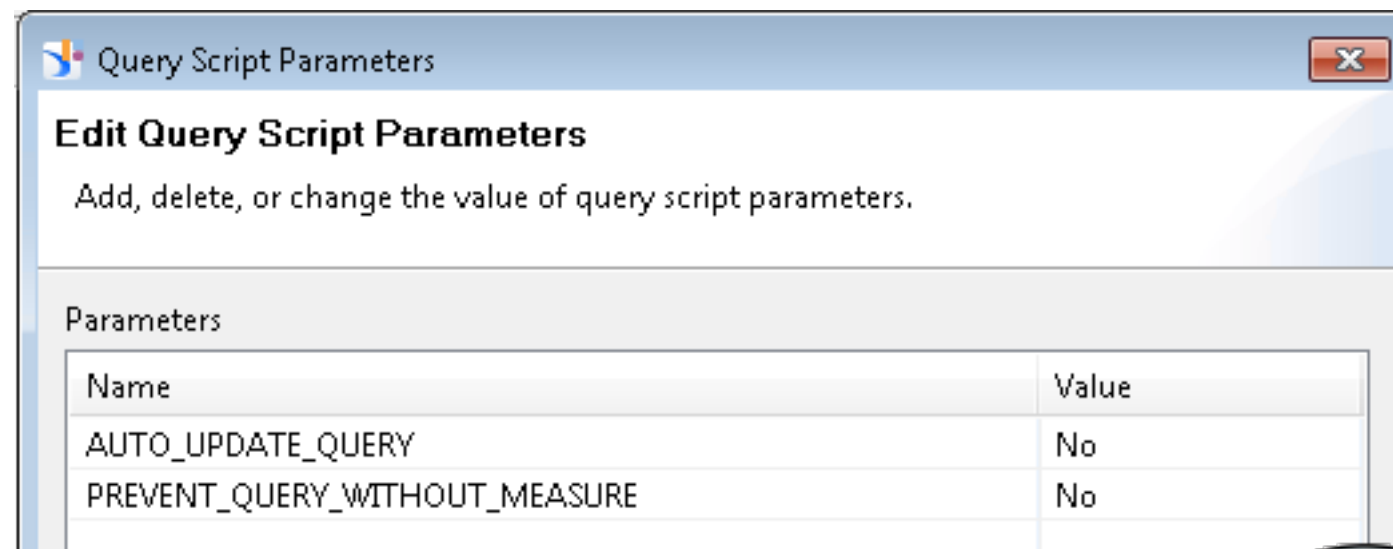


4.1 SP6

- OLAP universes can be prevented from generating certain queries

▶ Example:

* Query does not have at least one measure



These parameters are set on the .UNIX universe from the Information Design Tool (IDT).

Agenda

- Introduction
- What's New with *Web Intelligence*
- Extending the *Semantic Layer*
- Powering up the *Platform*
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Platform Search



4.2 SP2

- Lost when we moved to BI 4.1
 - ▶ Had to turn it off - did not work as expected
 - ▶ Fixed and faster in 4.2
- Notable improvements
 - ▶ More than one APS Search server allowed
 - ▶ Should increase index speed linearly



Most customers had turned off this feature because of its past problems.

Search	Search Results
<input type="text" value="Test"/>	4.2 Testing
Refine Search Results By:	Testing
Type	Test Case_Commentary
web intelligence (20)	4.2 Testing Reports/4.2 Document
microsoft word (10)	Test Case_Promotion management
promotion job (3)	4.2 Testing Reports/4.2 Document
microsoft excel (2)	Test Case_Publication
shortcut (1)	4.2 Testing Reports/4.2 Document
More...	Test Case_Recycle bin
Location	4.2 Testing Reports/4.2 Document
4.2 testing reports (21)	Test Case_SFTP
user folders (12)	4.2 Testing Reports/4.2 Document
lcm (3)	Test Case_Upgrade Manager
admin (1)	4.2 Testing Reports/4.2 Document
events (1)	Test Case_user notification
More...	4.2 Testing Reports/4.2 Document
Refresh Time	Mobile_Testing_V1
Last Year (39)	User Folders/Administrator/Palanivel
All (39)	Show Instances
Last Month (8)	test
Last 24 Hours (2)	LCM/Promotion Jobs/gbi.ilaya
personal categories	
administrator (2)	
corporate categories	
cat3 (1)	

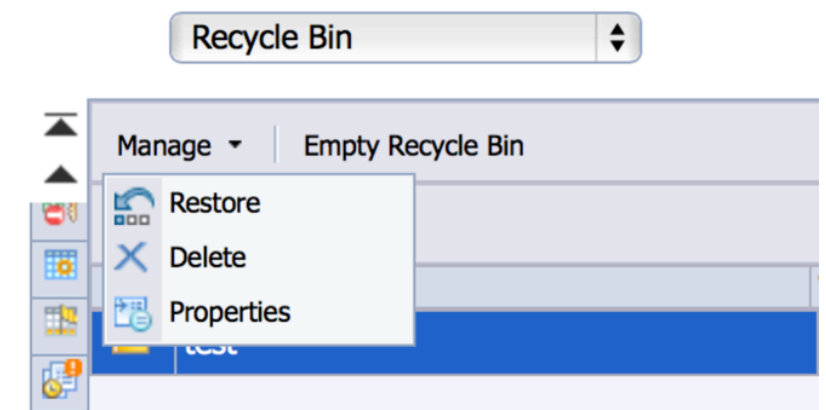
Recycle Bin



4.2 SP2

- Administrator can now restore deleted content
 - ▶ Everything is restored
 - ▶ Folders
 - ▶ Documents
 - ▶ Instances
- Deleted objects will be held for xx days
 - ▶ Configurable
- Have to let an Admin know that deletion occurred
 - ▶ Restored through the CMC (Central Management Console)

Central Management Console



Could think of this as a poor man's backup.











Promotion Management



4.2 SP2

- Selectively restore contents from archive files (LCMBIAR)
 - ▶ This includes individual universes, documents
 - ▶ Prior to 4.2, **ALL** content had to be restored

 Sample LCMBIAR File  All Folders  Connections  Universes	<input type="checkbox"/>		Name ▲	Type	Created By	Created On
	<input type="checkbox"/>		4.2 Document	Folders	gbi.ilaya	Jan 29, 2016 5:38 AM
	<input checked="" type="checkbox"/>		OpenDoc - Detail Report	Web Intelligence	Administrator	Mar 7, 2016 9:38 PM
	<input type="checkbox"/>		OpenDoc - Summary Report	Web Intelligence	Administrator	Mar 7, 2016 9:36 PM
	<input type="checkbox"/>					

Upgrade Management



4.2 SP2

- Improved features in 4.2
 - ▶ Filter objects to be migrated based on datetime, type, previously migrated status
 - ▶ Migrate only recurring instances
 - ▶ Change the temp directory used for processing
 - ▶ Improved migration of security rights



These improvements will make a bigger difference for those moving from XIR2 or BusinessObjects 3.1

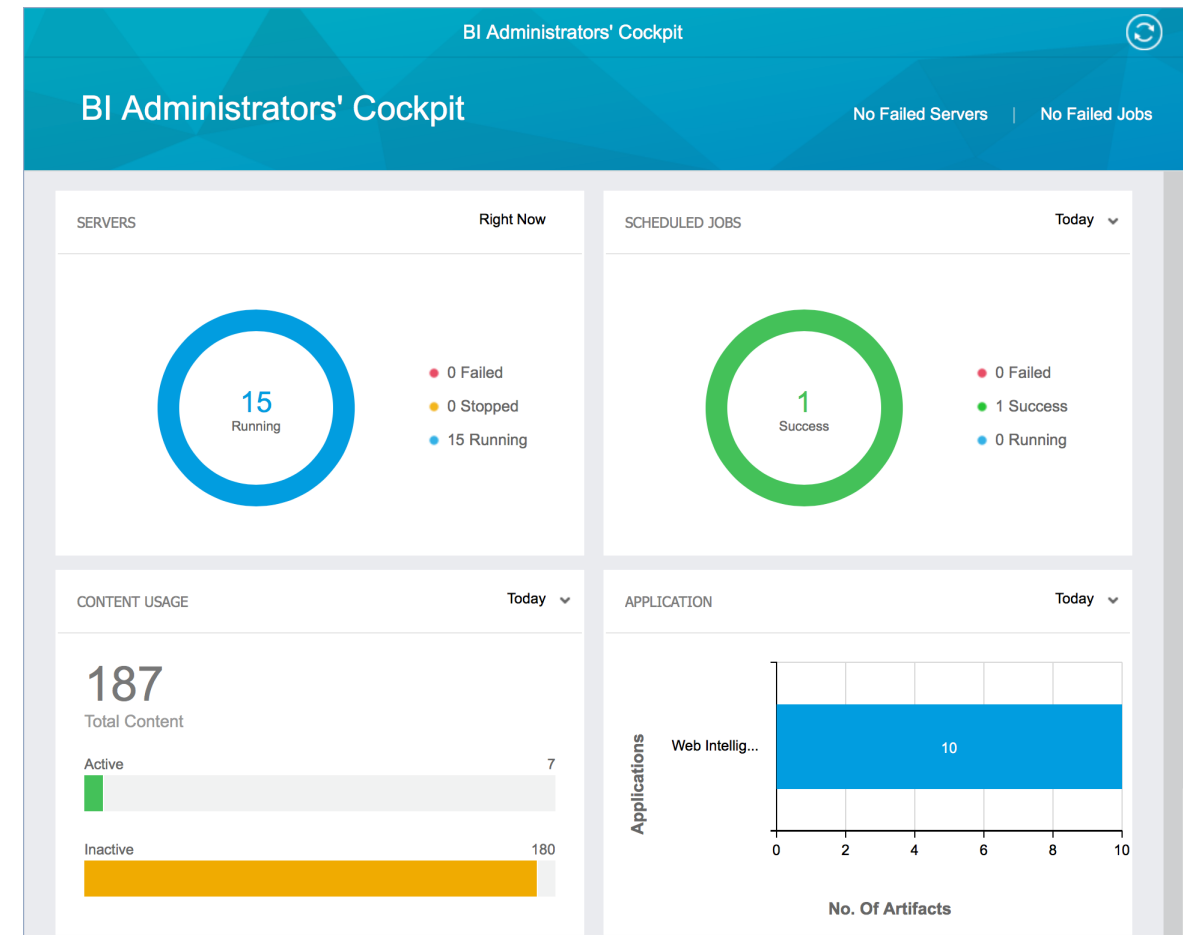


BI Administrator Cockpit



4.2 SP2

- Summarized information about your BusinessObjects environment in one place
 - ▶ Servers
 - ▶ Scheduled jobs
 - ▶ Content usage
 - ▶ Applications
- Each summary tile can be drilled to a detail table

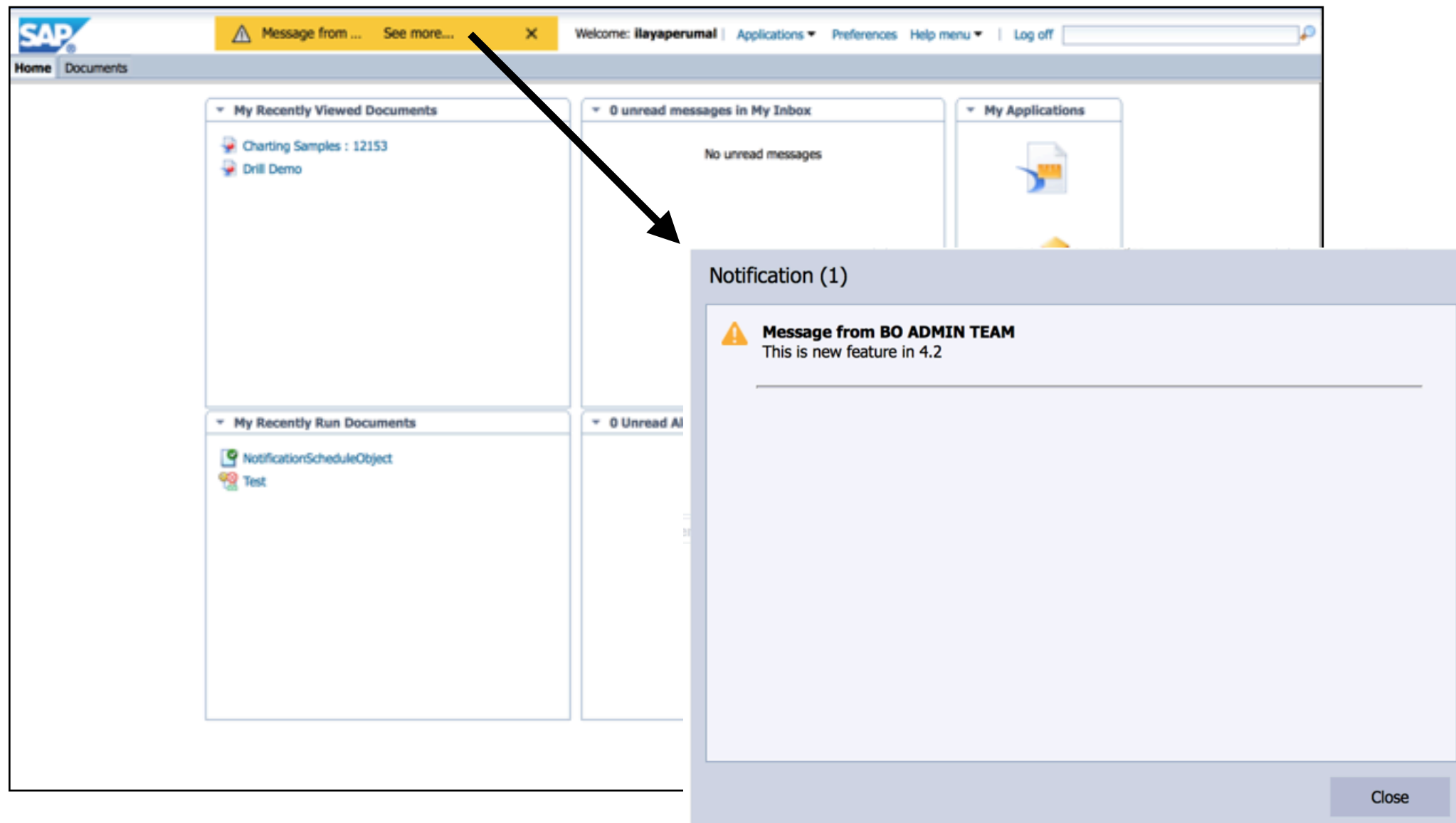


User Notifications



4.2 SP2

- Administrators can now send broadcast messages to all users



Deployment Improvements



4.2 SP2

- Bundled with Tomcat 8
 - ▶ Will automatically upgrade previous installs of Tomcat 6, 7
- Software can be cached prior to installation
 - ▶ This should shorten our upgrade downtime
- SAP Host Agent is now included
 - ▶ Used to report on machine resources (CPU, memory, disk, network)



Platform 4.1 Feature Catchup



- The next few slides cover features that were added prior to BI 4.2

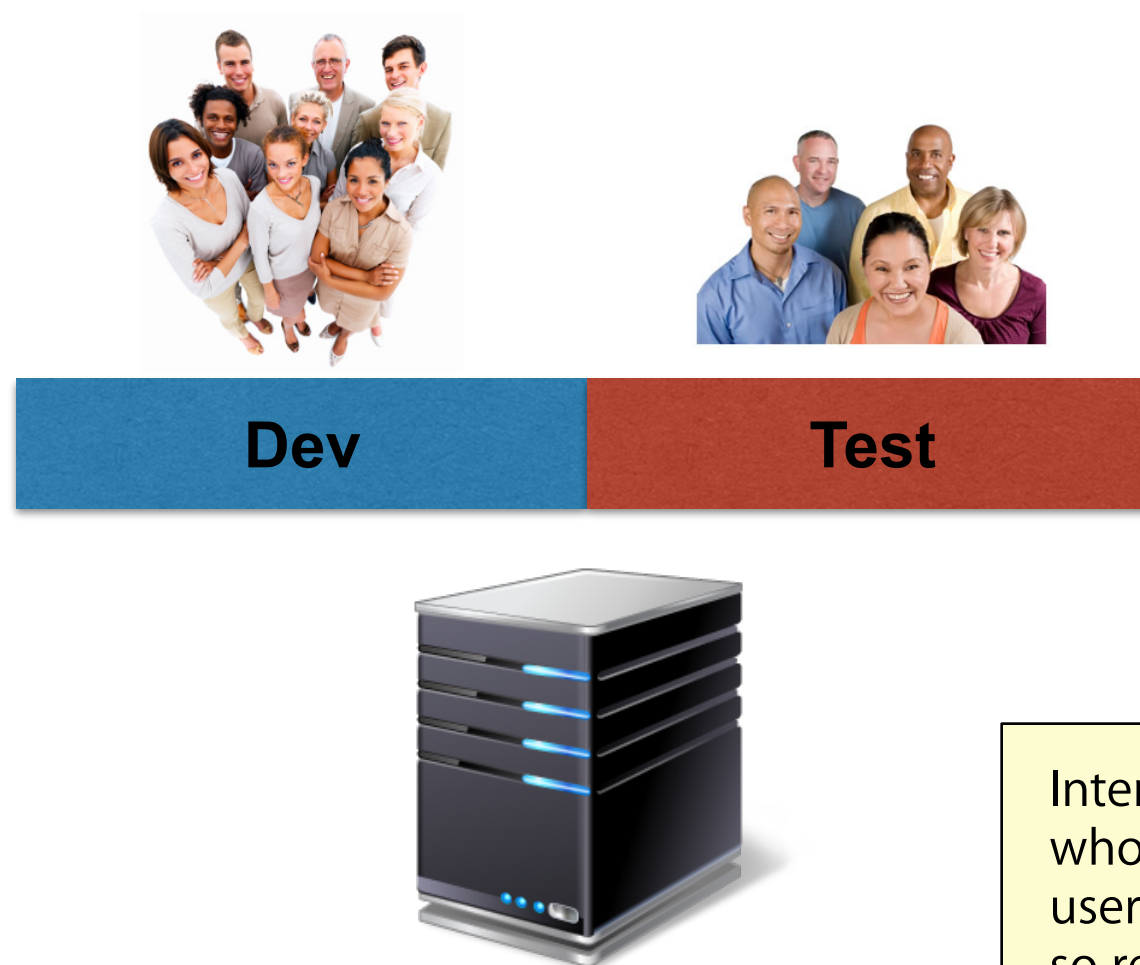


Multitenancy



4.1 SPx

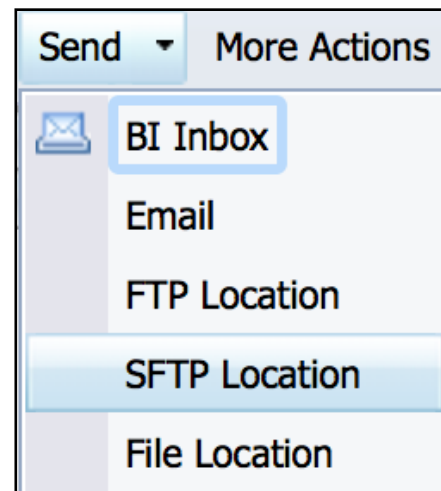
- Colocate different BusinessObjects environments on the same machine
- UNIX customers do this already to some extent for Dev and Test environments
 - ▶ Separate installs on the same machine



Interesting idea for those companies who want to separate large groups of users. There are implications, though, so research thoroughly.



- SFTP added as a new destination
 - ▶ Each destination tied to one machine, account
 - ▶ You'll need a machine fingerprint (identifier) to use this feature



SMTP over SSL



4.1 SP6

- Send email using secured SSL connections

Send BigNumbers to Email

☐ Use default settings

From:

Add Placeholder

To:

Add Placeholder

Cc:

Add Placeholder

Bcc:

Add Placeholder

Subject:

Add Placeholder

Message:

Add Placeholder

☒ Add Attachment

File Name:

☒ Use Automatically Generated Name

☐ Use Specific Name

Add Placeholder

☒ Add File Extension

☒ Enable SSL

SSO Login for CMC



4.1 SP6

- Previously administrators had to enter their usernames, passwords

A screenshot of the SAP BusinessObjects Central Management Console login page. The page has a yellow header bar. Below it, the text "SAP BusinessObjects Central Management Console" is displayed. A message says "Enter your user information, and click 'Log On'." followed by "If you are unsure of your account information, contact your system administrator." Below this is a login form with fields for "System:" (a blue button), "User Name:" (containing "Administrator"), "Password:" (empty), and "Authentication:" (a dropdown menu showing "Enterprise"). A "Log On" button is at the bottom right of the form. The SAP logo is at the bottom left, and a "Help" link is at the bottom right. A large red 'X' is drawn over the entire login form area.

Browser-closed Sessions



4.1 SP6

- Sessions are automatically closed when the browser is closed

The screenshot shows a web browser window with the SAP logo and navigation tabs. The 'Documents' tab is active, displaying a table of items. A black arrow points to the red close button in the browser's window control bar.

Title	Type	Last Run	Instances	Description
	Web Intelligence		1	
	Web Intelligence		1	
	Web Intelligence		0	
	Web Intelligence		0	
	Hyperlink			---

Total: 5 items

Publication Catchups



4.1 SP7

- Multi-pass report bursting can be done in batches (0 - 50)
- Delete publication instance even when no recipient is processed

Limits: Publication test

Hide Navigation

- Properties
 - Summary
 - General Properties
 - Source Documents
 - Enterprise Recipient
 - Dynamic Recipients
 - Personalization
 - Formats
 - Destinations
 - Prompts
 - Publication Extension
 - Recurrence
 - Notification
 - Events
 - Scheduling Server
 - Advanced
- Categories
- Schedule
- User Security
- History
- Limits**
- Test Mode

Refresh Update Cancel

☒ Delete Publication instance when no recipient is processed.

☐ Delete excess instances when there are more than N instances of an object: 100

Delete excess instances for the following users/groups Add Remove

Remove	Name	Full Name	Description	Maximum instance count per object per user
--------	------	-----------	-------------	--

Delete instances after N days for the following users/groups Add Remove

Remove	Name	Full Name	Description	Maximum instance age in days
--------	------	-----------	-------------	------------------------------

SAML Support



4.0 SP4

- Logging in via Security Assertion Markup Language (SAML)
 - ▶ Supported since BI 4.0 SP4
 - ▶ Works with Trusted Authentication

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Q&A - Let's Hear From You!



Conclusion

- You've just been on an amazing feature-packed tour!
 - ▶ Saw the latest innovations for Web Intelligence
 - ▶ Visited the newest semantic layer advances
 - ▶ Understood how the platform is maturing as well
- All features tied to a specific version
 - ▶ Understand where you are, where you can go
 - ▶ Even covered improvements prior to BI 4.2
- The latest technology advances covered
 - ▶ Through BI 4.2 SP3
- Personal insights given at every turn
 - ▶ Not the type of information you'll get from a book or reference guide

Next: SAP BI Platform Innovations

- BI Platform challenges and how today's innovations address them
- Idea Place - the voice of the community: How far have we reached?
- Beyond 4.1 / 4.2: Next generation capabilities today

Thank You!



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