Oracle BI 11.1.1.7 New Features

Heartland OUG Spring 2013

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Oracle BI 11.1.1.7 New Features Agenda

- IOUG, BIWA and Vlamis background
- Agenda for reviewing features:
  - Lots of new features – mostly demo
  - More information (Q&A)

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Oracle BIWA SIG Basics

- Worldwide association of 2000+ professionals interested in Oracle Database-centric business intelligence, data warehousing, and analytical products, features and options.
- Membership is FREE – join at *oraclebiwa.org*
- Open forum to foster success in use and development of Oracle BIWA products.
- Goals: sharing best practices and novel and interesting use cases of Oracle BIWA-centric technology.
- Mission Statement and Charter at *oraclebiwa.org*.
- Board of 12 or so. President Shyam Nath.
- Conferences 2007, 2008, 2010, 2011, 2012

BIWA SIG

Better Information Better Results

www.oraclebiwa.org

Mark Your Calendars Now!

BIWA Summit 2014, Jan 14-16

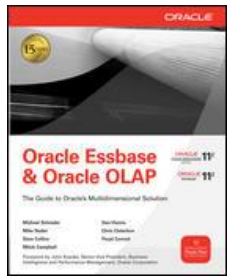
Oracle HQ Conference Center

Business Intelligence, Warehousing and Analytics

IOUG Special Interest Group

Dan Vlamis and Vlamis Software Solutions

- Vlamis Software founded in 1992 in Kansas City, Missouri
- Developed more than 200 Oracle BI systems
- Specializes in ORACLE-based:
  - Data Warehousing
  - Business Intelligence
  - Design and integrated BI and DW solutions
  - Training and mentoring
- Expert presenter at major Oracle conferences
- www.vlamis.com (blog, papers, newsletters, services)
- Developer for IRI (former owners of Oracle OLAP)
- Co-author of book “Oracle Essbase & Oracle OLAP”
- Beta tester for OBIEE 11g
- Reseller for Simba and Nokia map data for OBIEE
- HOL Coordinator for BIWA Summit 2013



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OBIEE 11g Major Releases

- 11.1.1.3 (August 2010)
  - Huge release with major new functionality
- 11.1.1.5 (May 2011)
  - BIWA TechCast May 25: Oracle BI 11.1.1.5 Released - Changes and New Features
  - First patch release – fix bugs
  - Platform for BI Apps 7.9.6.3 to migrate to OBIEE 11g
  - Introduction of BI Mobile (iPad only)
  - OLAP integration
  - 64-bit Admin Tool, separate install
- 11.1.1.6 (February 2012)
  - BIWA TechCast Feb 29: Oracle BI 11.1.1.6 New Features
  - Platform for Exalytics (announced Oct 2011)
  - TimesTen integration
  - Fix bugs
  - New features mostly for Exalytics
  - Additional miscellaneous new features
- 11.1.1.6.2 and 11.1.1.6.2 BP1 (May 2012 and June 2012)
  - BIWA TechCast Aug 1: Oracle BI 11.1.1.6.2 BP1 New Features
  - BI Mobile rewrite
  - Trellis Views
  - Fix bugs
- 11.1.1.7 (April 2013)

Prior release presentations at www.vlamis.com

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OBIEE 11.1.1.7 Overview

- Major new release with lots of features (tick of tick-tock cycle)
- New data visualizations and wizard
- New hierarchical column and group display choices
- Freeze headers/scroll bars for tables and pivot tables
- New dashboard layout options for multiple resolutions and mobile
- New dashboard and analyses templating, printing, and saving capabilities
- New Navigation Trail capabilities (bread crumbs)
- Integration with Endeca search engine
- New BI Mobile capabilities and features
- New BI Publisher layout enhancements, integration with dashboards, and data model features
- View and manipulate BI content in SmartView in Excel
- Enhanced export capabilities to MS Office and Excel
- New Hadoop integration with Native HiveQL
- Extended Essbase capabilities with OBI
- New Oracle R Enterprise (ORE) integration and capabilities
- Exalytics enhancements

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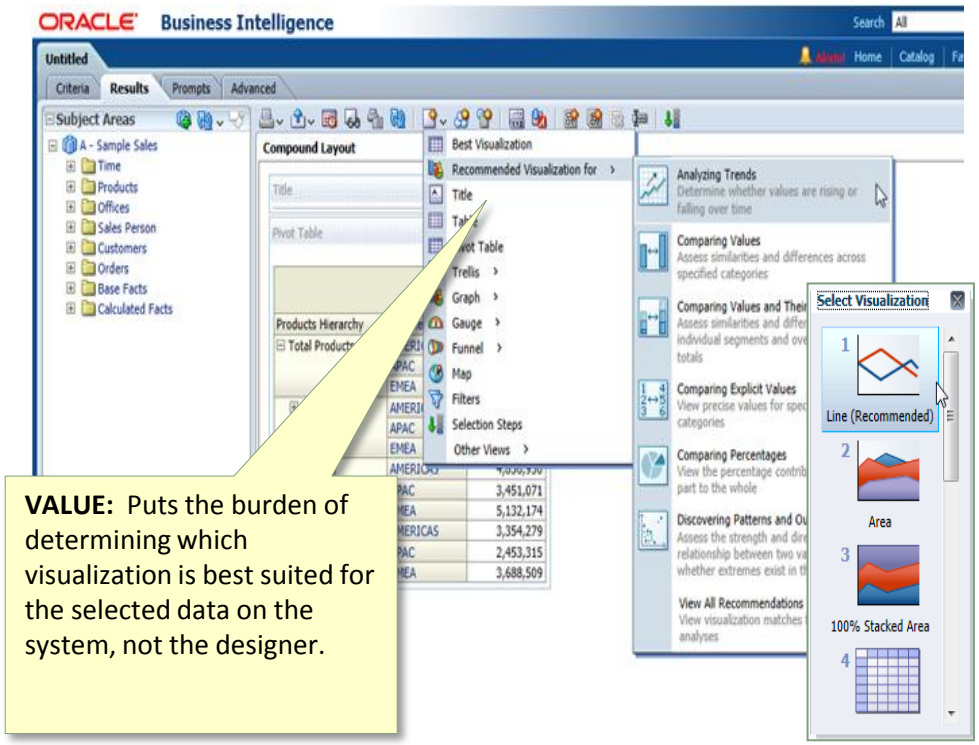
View Suggestions

An algorithm will determine which visualization type would be best suited for the display of current data. It returns an ordered list of appropriate visualizations and their suggested layouts.

- Algorithm considerations
  - # of dimensions
  - # of measures
  - # of members
- Best Visualization
  - Feeling lucky?
- Scenario based suggestions
- One-click charts



VALUE: Puts the burden of determining which visualization is best suited for the selected data on the system, not the designer.

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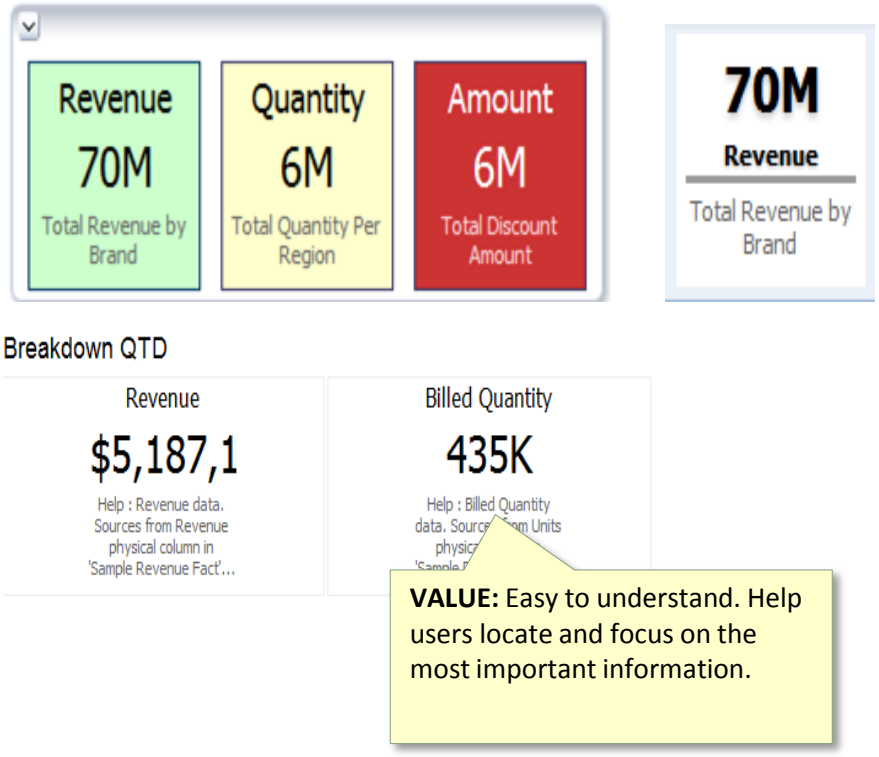
Performance Tiles

New in 11.1.1.7.0. Immediately reveals summary metrics to the end user that will likely also be presented in larger, more detailed Dashboard views.

- Reveal summary metrics and focus users' attention on simple, "need-to-know" facts
- Can be used as starting points for additional interactions like navigation
- Ideal for Mobile applications



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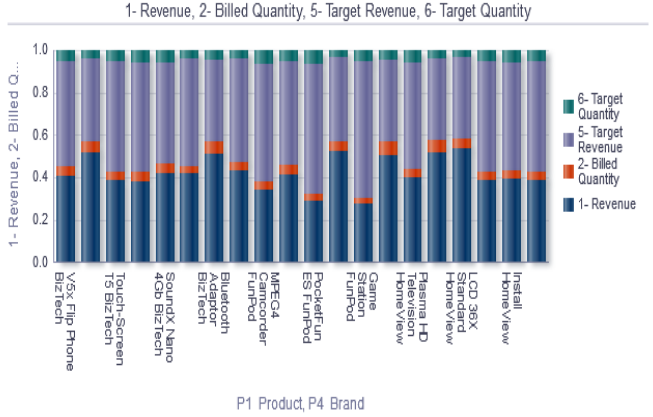
New Viz (100% Stacked Bar and Waterfall)

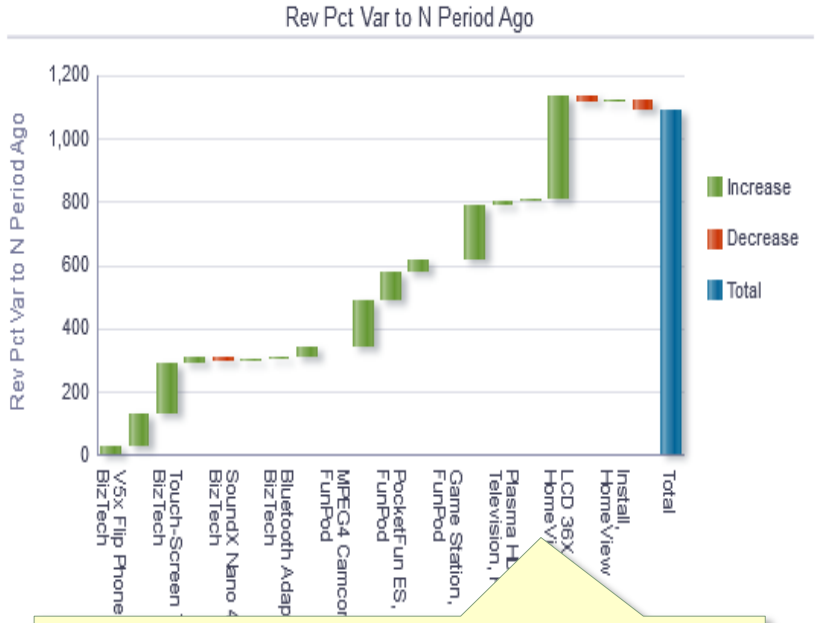
- 100% Stacked

P1 Product	P4 Brand	1- Revenue	2- Billed Quantity	5- Target Revenue	6- Target Quantity
V5x Flip Phone	BizTech	3657417.08	411391	4453100.00	492,680.0
CompCell RX3	BizTech	2260485.74	251254	1703500.00	187,150.0
Touch-Screen T5	BizTech	2604358.13	294428	3486900.00	392,260.0
KeyMax S-Phone	BizTech	2363155.43	267122	3218300.00	359,890.0
Plasma HD Television	HomeView	1210102.81		.00	176,740.0
Tungsten E Plasma TV	HomeView	3959690.83	424336	2951000.00	316,050.0
LCD 36X Standard	HomeView	3993962.32	359018	2882500.00	258,100.0
LCD HD Television	HomeView	1330399.14	142565	1795800.00	189,530.0
Install	HomeView	487556.74	54781	635900.00	74,780.0
Maintenance	HomeView	518288.16	54962	704400.00	75,880.0

VALUE: 100% Stacked Bar Charts are used to compare distributions within categories and also display the differences between categories. The cumulative proportion of each stacked element always totals 100%.



- Waterfall



VALUE: A waterfall chart helps in determining how an initial value is affected by a series of intermediate positive or negative values. Waterfall charts can be used for various types of quantitative analysis ranging from inventory analysis to performance analysis.

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Freeze Headers

When scrolling large table or pivot views one can lose the informational headers located at the top and left side of the view and lose data context. Freeze headers addresses this problem.

- View level property
  - Table
  - Pivot
  - Advanced Trellis
- Mobile also via two-finger swipe within table

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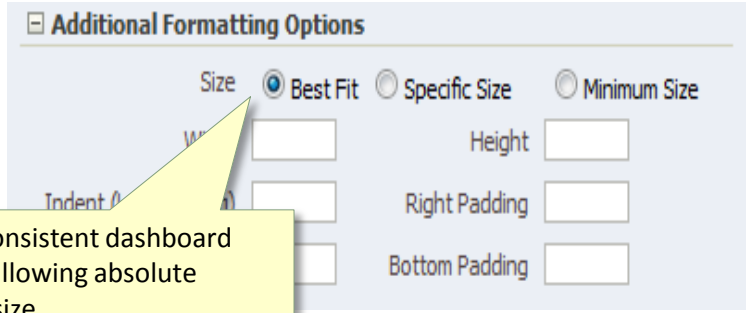
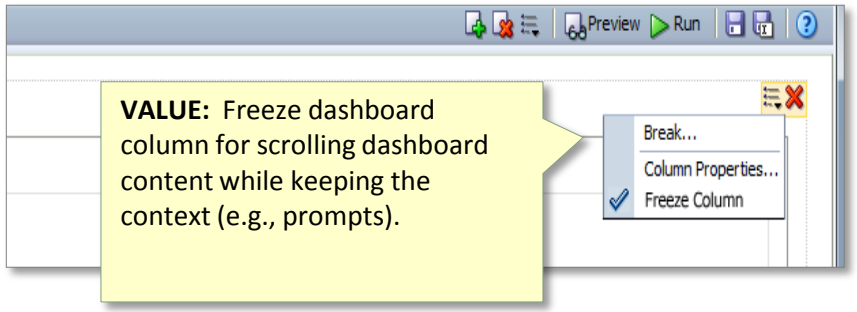
Layout Container Options

New in 11.1.1.7.0. Allows consistent dashboard layout by supporting the fixed size container. Freeze Dashboard column allows scrolling while keeping the context (e.g. prompts, performance tiles) of the dashboard.

- Consistent Layout
  - Data variability
  - Browser size
- Freeze Dashboard Column
  - Maintains the context of the dashboard
  - Optimal for prompts or performance tiles
  - Useful for mobile devices





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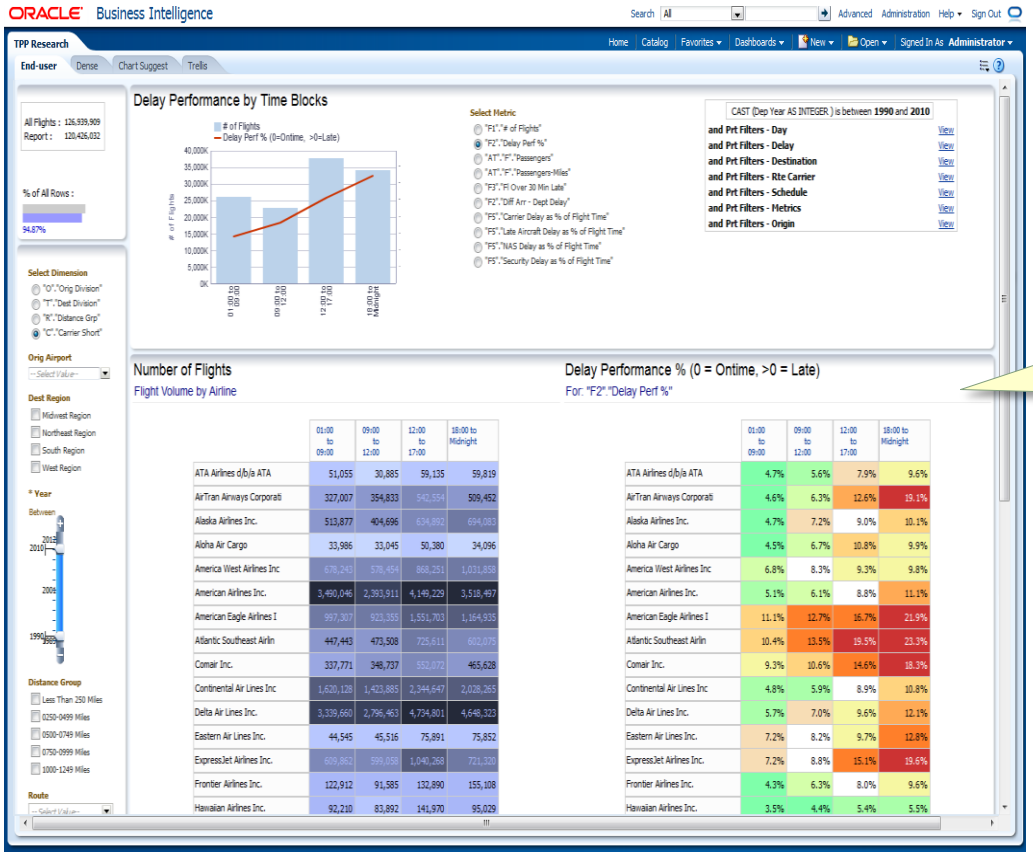
New Style Support

New in 11.1.1.7.0. The “FusionFX” style becomes the new default. BLAF+ will still be included, but this modern style featuring more minimal/subtle controls will be featured.



VALUE: Content comes to forefront and is not diminished by outdated look & feel.

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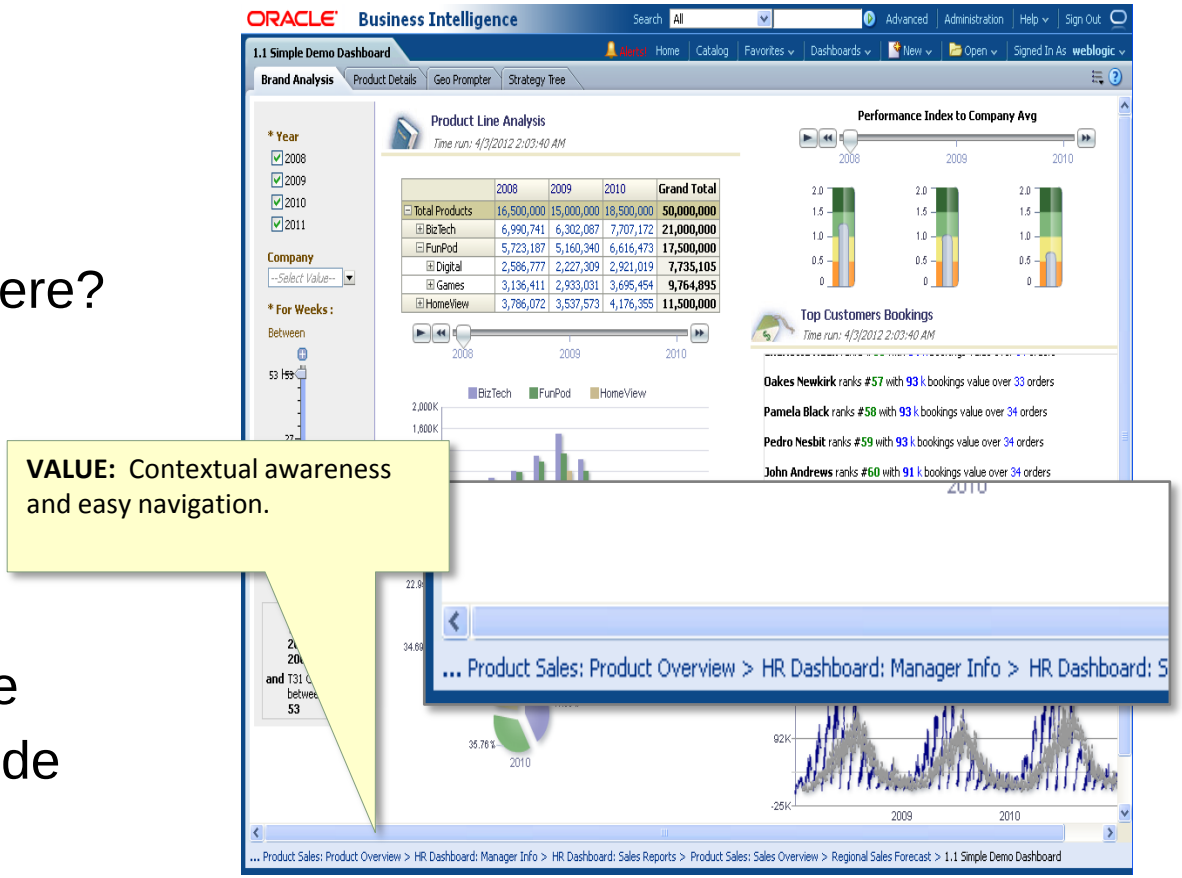
Context Awareness and Navigation

New in 11.1.1.7.0. Reveals current context of the dashboard by displaying navigation trail. Allows easy navigation back to a previous state.

- Contextual Awareness
  - Where am I?
  - How did I come here?
- Easy Navigation (Breadcrumb)
  - Navigation trail
  - Go back easily
  - Preserve the state
  - Persist in Edit Mode



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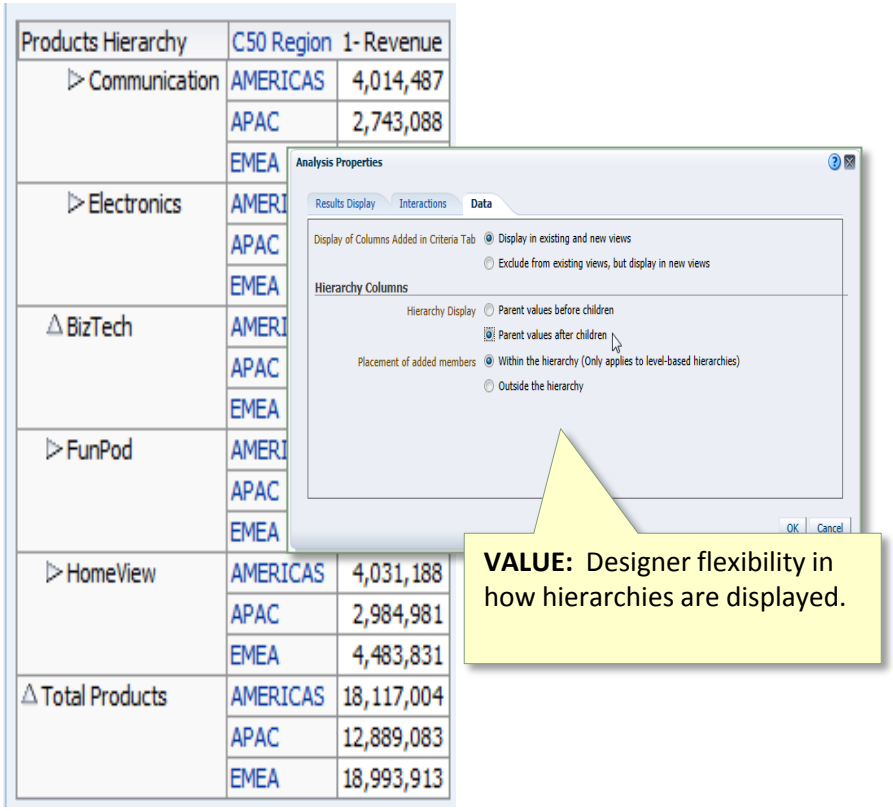
Display Total Members Last

For many analyses, it is common to have the parent/total member in the hierarchy display after or below its children. This option will allow analysis designers to choose how hierarchies are displayed.

- New property
  - Analysis-level
  - Default is Parent before/above
  - Applies to all edges
  - Impacts all applicable views



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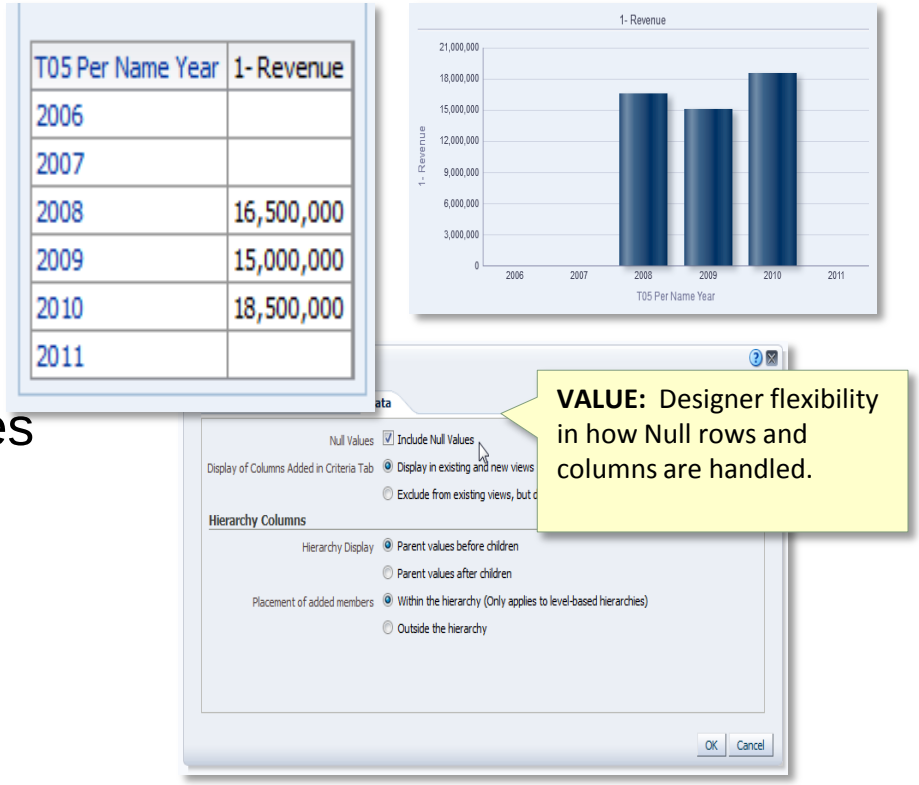
Null Non-Suppression Option

Analyses often have sparse data that includes null rows and/or columns. Currently in OBIEE, these null rows/columns are always suppressed. To allow designers to display this data, a Null Non-Suppress option will now be available.

- New property
  - Analysis-level
  - Default is Suppress
  - Override at view-level
  - Applies to row, column edges
  - Impacts all applicable views



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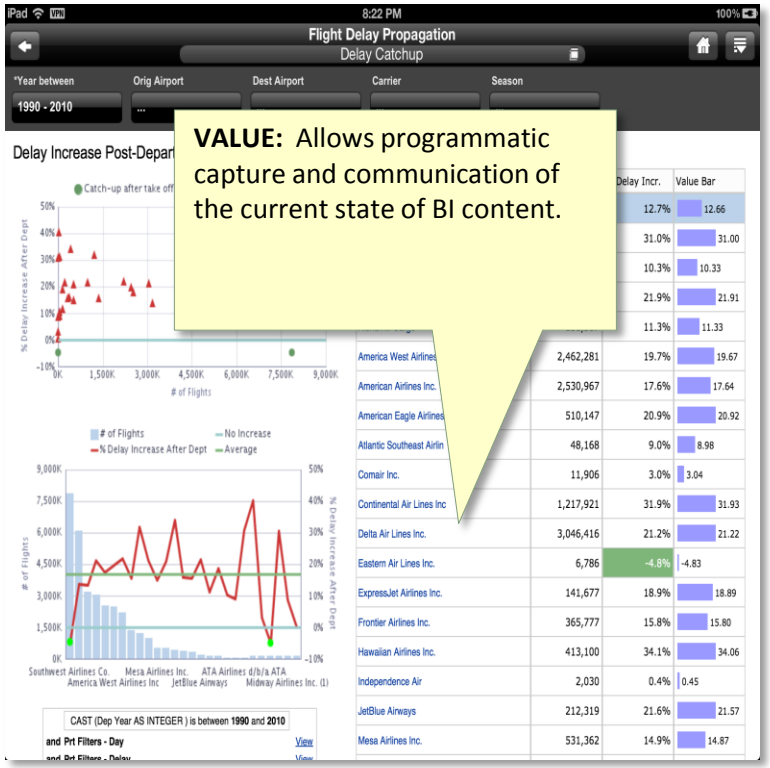
Pass Context to ADF - Ops Planning Support

New in 11.1.1.7.0. This allows to capture the current state of the BI content (dashboard or analysis) for the consumption by Fusion applications for further modeling.

- APIs For Capturing
  - Current state of a dashboard
  - Current state of an analysis
  - Internal only in 11.1.1.7.0 release
  - In-use by Ops planning team for Spend Modeling and Spend Analysis.



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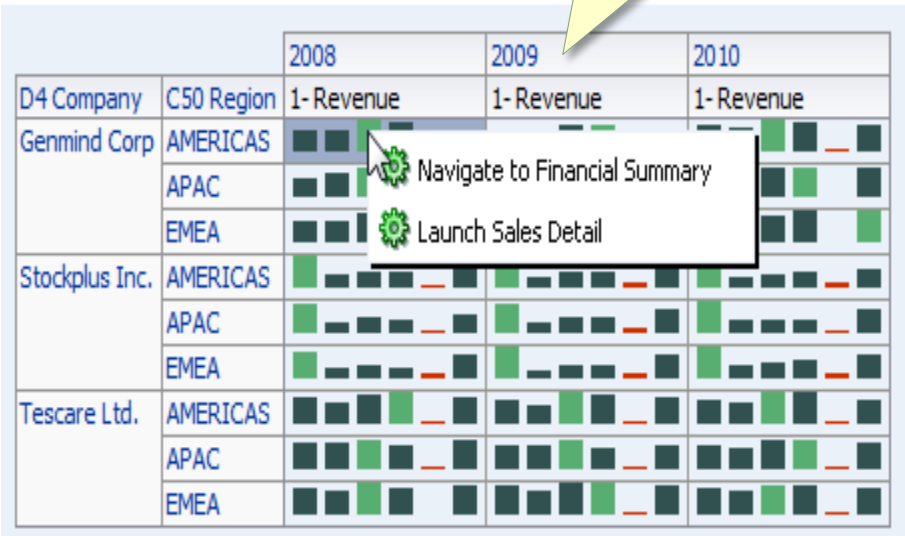
Trellis Interactions

To deliver a true exploratory experience on the Trellis view, we need to allow action links on the inner visualization.

VALUE: Enhance interactive capabilities of Trellis view by supporting Action Links.

- Simple Trellis
  - Action links
  - Context per bar/unit
  - Legend and Axis labels
- Advanced Trellis
  - Entire cell acts a unit
  - Action links for aggregate



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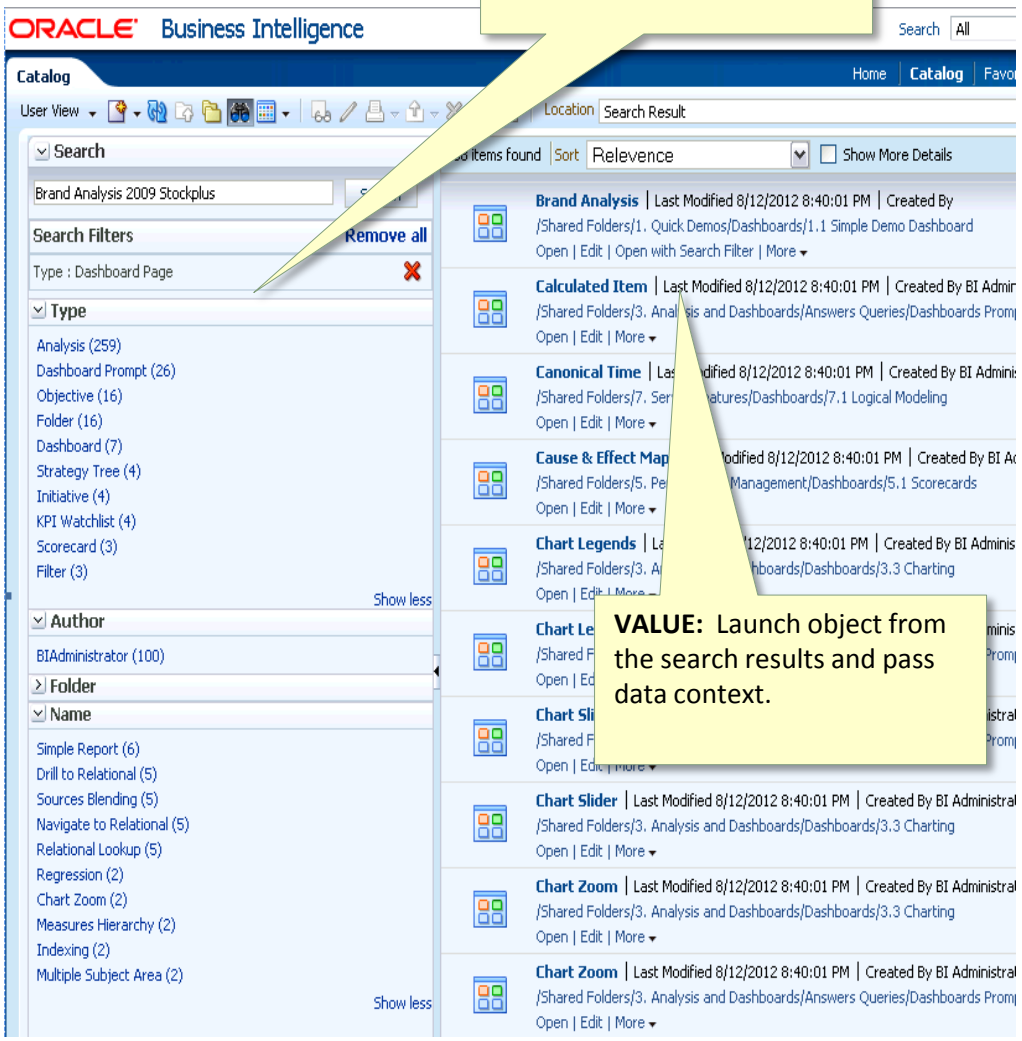
Search with MDEX

Provide alternative search engine to Secure Enterprise Search that uses Endeca MDEX.

- Full text search available from the OBIEE UI
- Facet user interface
- Search criteria/context passed to report when drilling
- Agent-based crawl framework
- Smaller footprint
- English only



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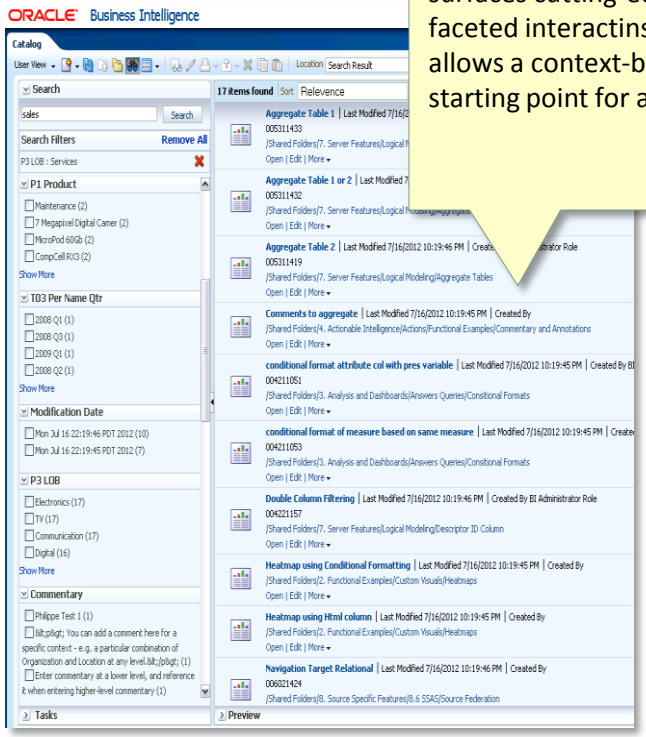
Endeca Engine For Facet Based Search

Advanced search has been present in the product since 11.1.1.5.0. In 11.1.1.7.0 MDEX also becomes a first class engine for search. Most notably this will add classic Endeca faceted search capabilities supporting information exploration by applying or removing multiple filters.

- Supports SES or MDEX Search Engine
- Allows Indexing and Search
  - Webcat
  - Dynamic Objects (e.g. Prompts, KPIs)
- Pass Search Context to open Objects pre-filtered to matching keywords.

VALUE: Users get performant Search that surfaces cutting-edge faceted interactins and allows a context-based starting point for analysis.



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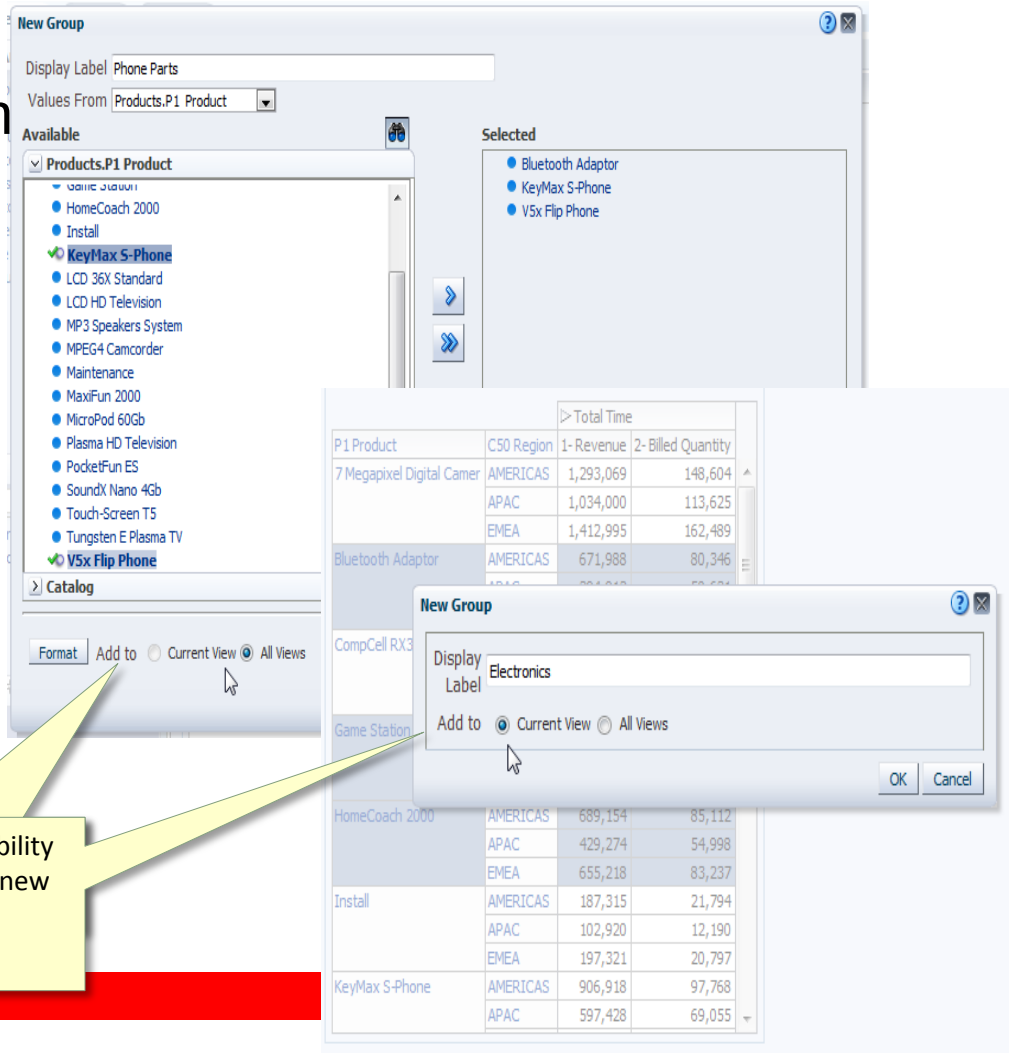
View Specific Groups and Calc Items

Groups and Calculated Items can now be displayed in one or any view.

- Context sensitive creation
  - Compound layout
    - Tool bar – All views
    - Selections pane – All views
    - Right click - Choice
  - Specific view editor
    - Tool bar - choice
    - Selections pane - Choice
    - Right click – Choice
- Update using right click
- Details on selection step



VALUE: Designer flexibility as to where to display new group or calc item.

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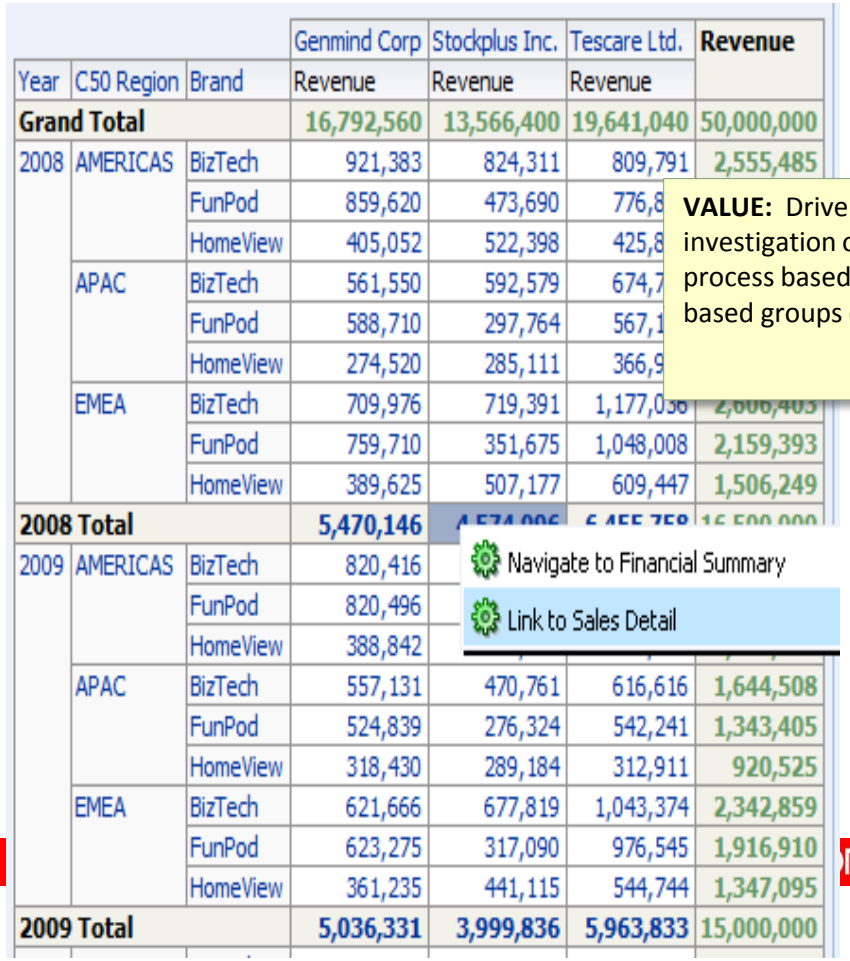
Add Navigation/Action Links from Totals

The same ability to invoke an Action from any row has now been added to Totals, Sub-totals, and Grand Totals. Context appropriate for that group of values will be passed to the target Action.

- Context can be passed from links to any Action Framework process
  - In most cases this will be “Navigate to BI Content”
  - Conditional Actions are also supported
- Totals continue to allow any desired custom styling – even to match classic total formatting.



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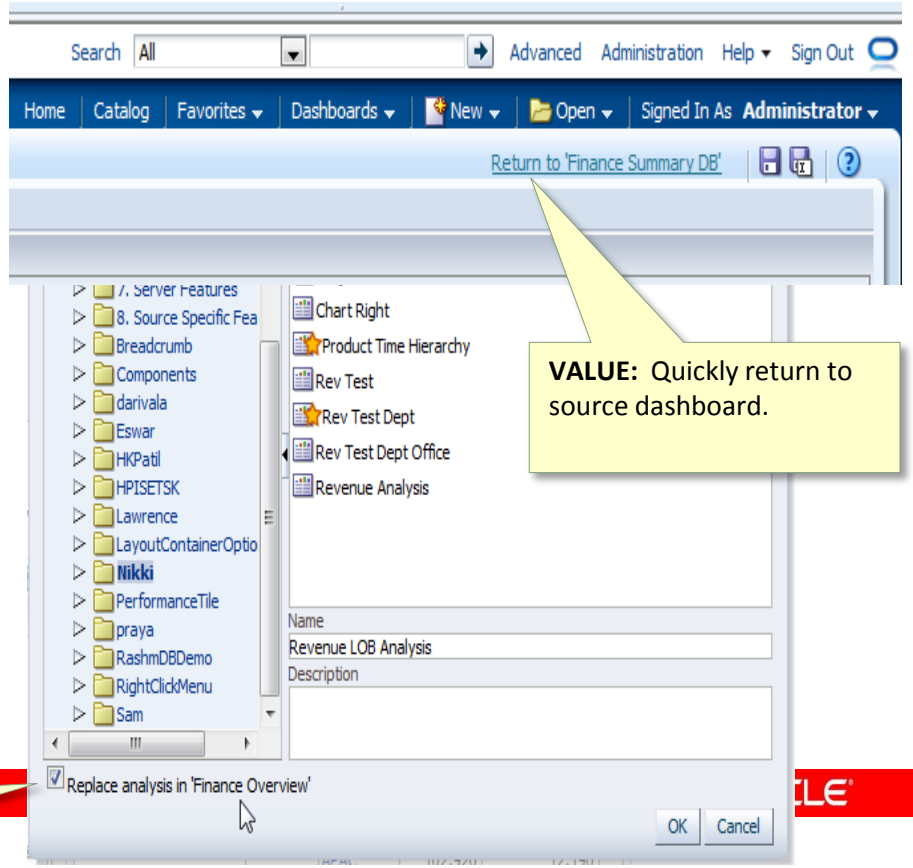
Save As Analysis on Dashboard

When doing iterative development for Analyses, the designer often finds themselves frequently switching between the Dashboard and Answers editor. To help make this process more seamless, a new Save As option has been added to replace the updated analysis within the dashboard.

- Use Edit, Analyze DB link
- Make updates to analysis
- Save As new name
- Select to Replace in DB
- Return to DB



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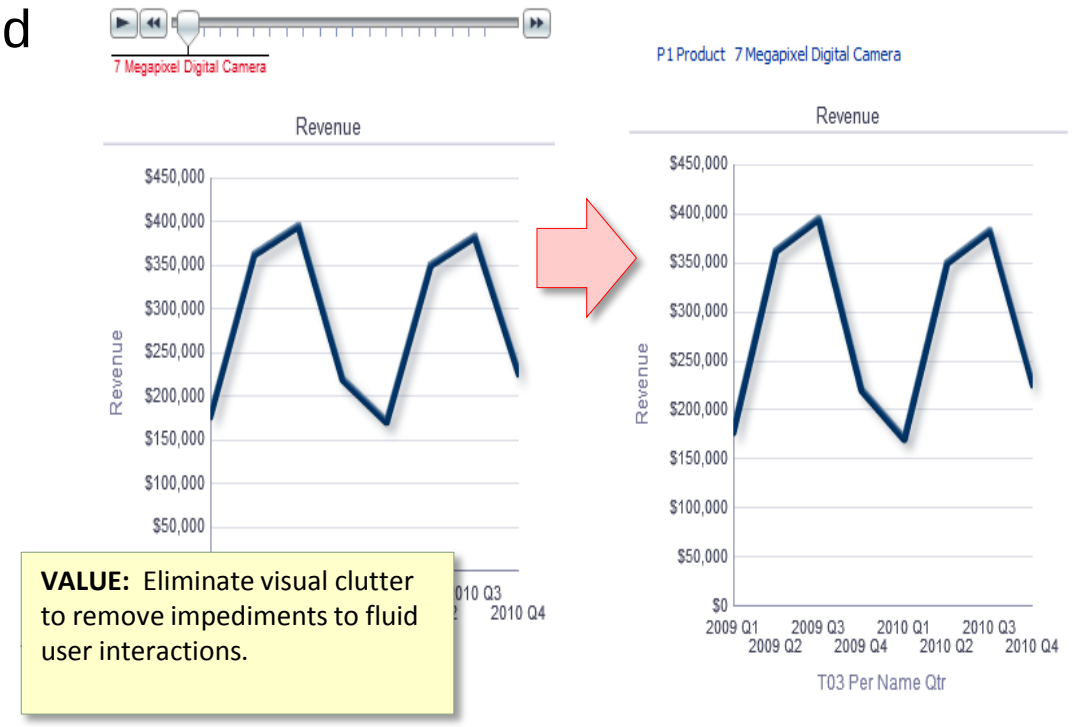
Hide Slider with Master-Detail

The necessary presence in prior releases of chart sliders for one style of master-detail linking added visual clutter and was marginally useful. These graphical sliders can be removed in 11.1.1.7.0.

- Allows for a streamlined Dashboard experience
- Values for needed context are kept
- Visual impact of chart prompts has been minimized also



VALUE: Eliminate visual clutter to remove impediments to fluid user interactions.

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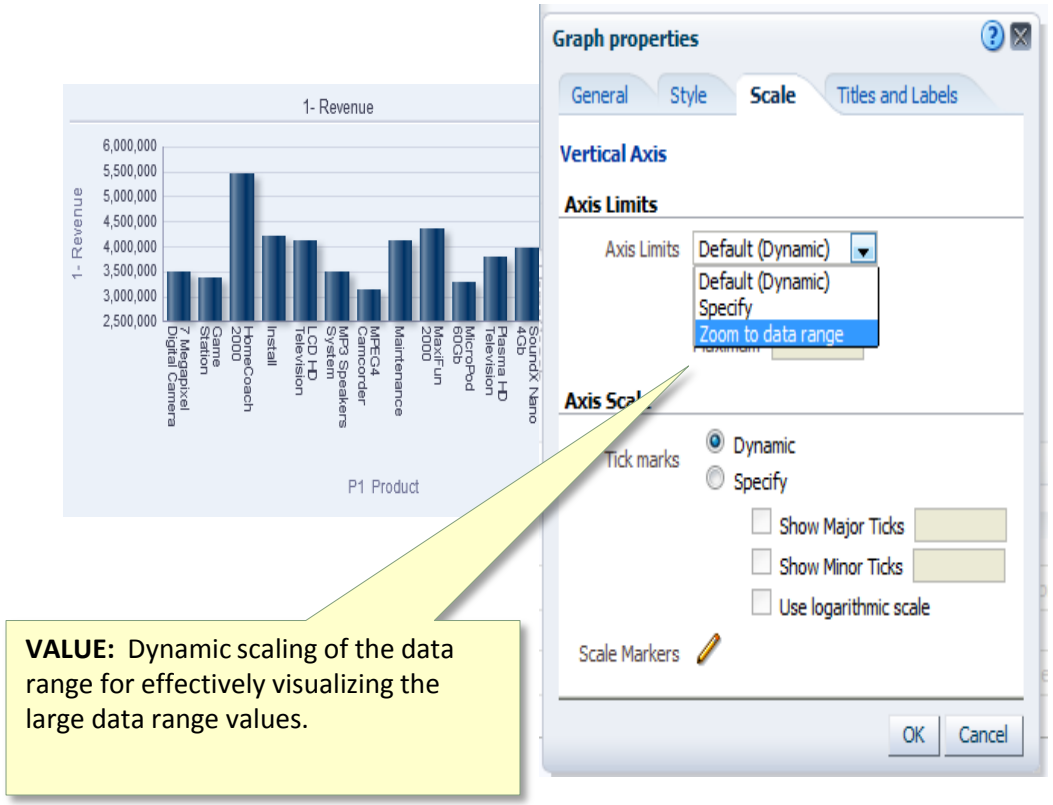
Restore “Zoom to Data Range” Chart Configuration

Regression from 10g. Restored in 11.1.1.7.0. Allows zooming and dynamic scaling of the data range in a chart. This is important when data has large range (e.g. zero to billions of dollars)

- Zoom to Data Range
  - Dynamic scaling of data range
  - Effective visualization of data with large range
- Automatic selected when upgrade from 10g to 11g



VALUE: Dynamic scaling of the data range for effectively visualizing the large data range values.

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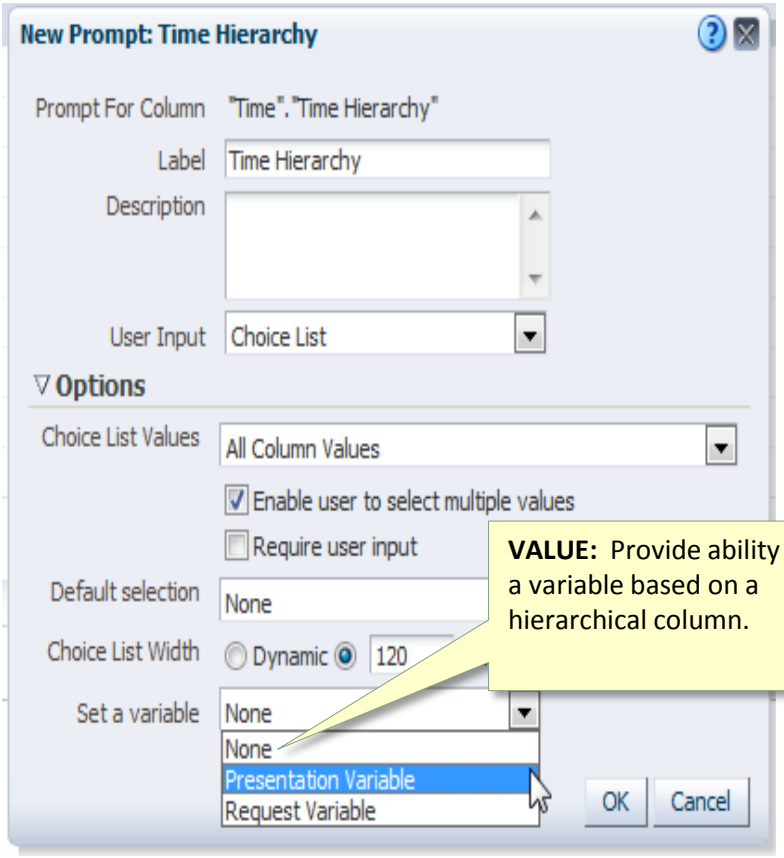
Set Variables with Hierarchical Prompts

Furthering the functionality of a hierarchical prompt, a variable can now be set to the selected value. This variable can then be used in other parts of the application.

- Dashboard prompts
- Analysis prompts
- Prompt types
  - Presentation
  - Request



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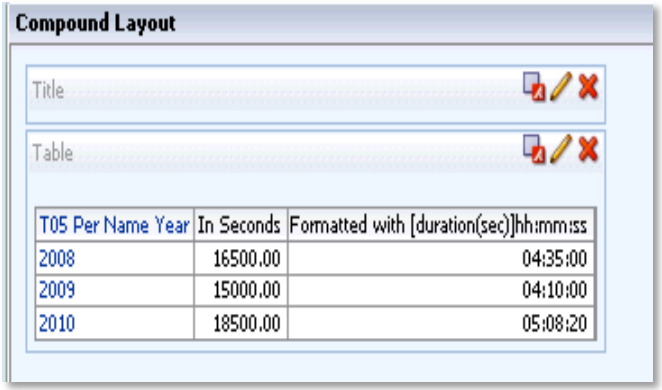
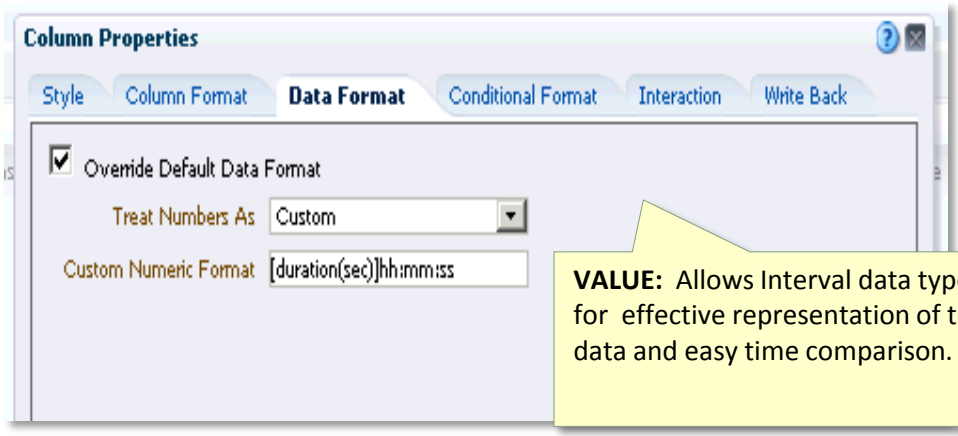
Support “Interval” Data Type (HH:MM:SS)

New in 11.1.1.7.0. Allows Interval data type by supporting hh:mm:ss custom data format. This is important for effective time data representation and time comparison.

- Custom data format
  - hh:mm:ss
- Support Interval Data Type
  - Effective time data representation
  - Easy time comparison





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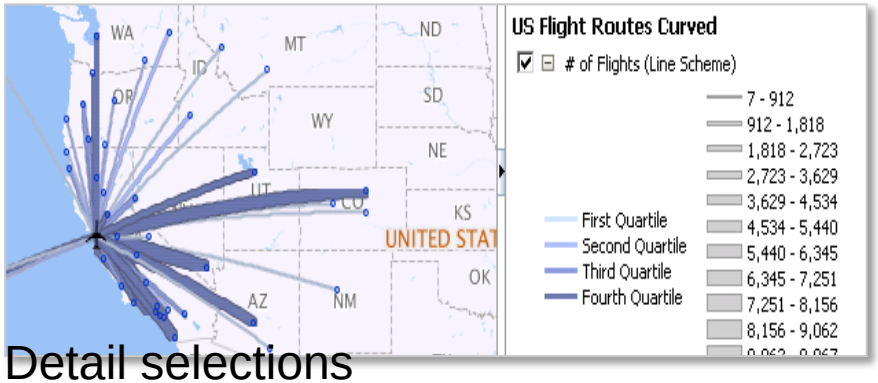
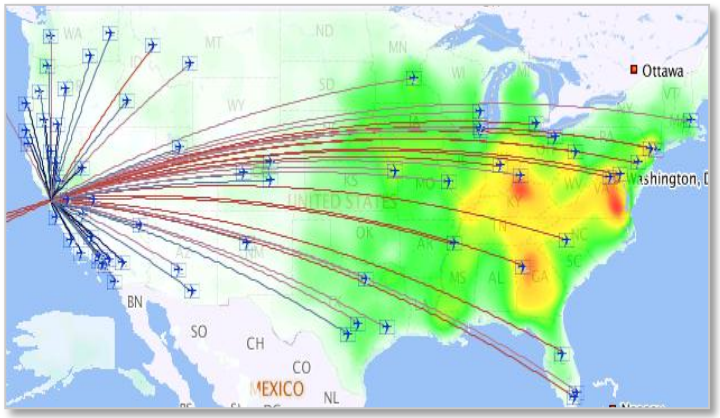
Map Visuals Enhancements



- Enhanced Line Geometries
  - Variable line thickness

- Maps acting as *targets* in Master Detail selections
  - Maps act as slave targets to Master Detail Selection from any other views.
  - Maps dynamically pan and zoom to the selected MD member.

- Feature Layers support
  - Passive map background layer displaying fixed metric values



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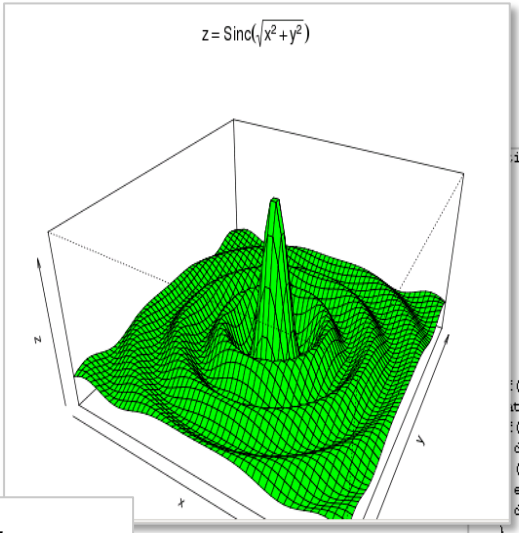
BLOB / CLOB Datatype Support

- BLOB/CLOB datatypes supported in BIEE server CEIM and directly consumed in BI Presentation Services views



BLOB images

```
ion(dat) {
  uniquecarrier <- dat$UNIQUE_CARRIERS
  delayType <- dat$DELAY_TYPE
  startYear <- dat$START_YEAR
  endYear <- dat$END_YEAR
  newDataStartYear <- dat$NEW_DATA_START_YEAR
  newDataEndYear <- dat$NEW_DATA_END_YEAR
  graphTypes <- dat$GRAPH_TYPES
      ore.sync(table="ONTIME_S")
      ore.attach()
      library("qcc", lib.loc="/home/oracle/R/library")
(graphTypes == "both") graphTypes <- c("xbar","S")
t <- ONTIME_S
(newDataStartYear!= -1) {
dat <- dat[(dat$YEAR>=start
(dat$YEAR>=newDataStartYea
else {
dat <- dat[dat$YEAR>=start
}
if(uniquecarrier != "ALL") {
  dat <- dat[dat$UNIQUECARRIER == uniquecarrier, ]
}
if (delayType=="arrival") {
```

CLOB data

Product Name														
20-Inch iMac											1			
7 Megapixel Digital Camera														1
Bluetooth Adaptor		1												
Bluetooth Phone Headset										16				
Ipod Nano 1Gb									1					
Ipod Nano 2Gb												1		
Ipod Nano 4Gb												1		

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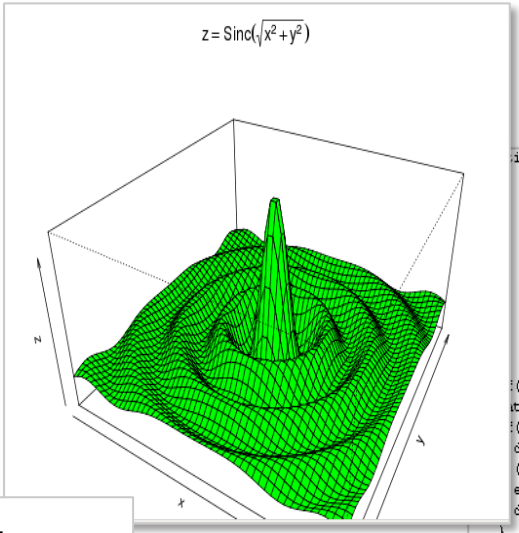
BLOB / CLOB Datatype Support

- BLOB/CLOB datatypes supported in BIEE server CEIM and directly consumed in BI Presentation Services views



BLOB images

```
ion(dat) {
  uniquecarrier <- dat$UNIQUE_CARRIERS
  delayType <- dat$DELAY_TYPE
  startYear <- dat$START_YEAR
  endYear <- dat$END_YEAR
  newDataStartYear <- dat$NEW_DATA_START_YEAR
  newDataEndYear <- dat$NEW_DATA_END_YEAR
  graphTypes <- dat$GRAPH_TYPES
      ore.sync(table="ONTIME_S")
      ore.attach()
      library("qcc", lib.loc="/home/oracle/R/library")
(graphTypes == "both") graphTypes <- c("xbar","S")
t <- ONTIME_S
(newDataStartYear!= -1) {
dat <- dat[(dat$YEAR>=start
(dat$YEAR>=newDataStartYea
else {
dat <- dat[dat$YEAR>=start
}
if(uniquecarrier != "ALL") {
  dat <- dat[dat$UNIQUECARRIER == uniquecarrier, ]
}
if (delayType=="arrival") {
```

CLOB data

Product Name														
20-Inch iMac											1			
7 Megapixel Digital Camera														1
Bluetooth Adaptor		1												
Bluetooth Phone Headset										16				
Ipod Nano 1Gb									1					
Ipod Nano 2Gb												1		
Ipod Nano 4Gb												1		

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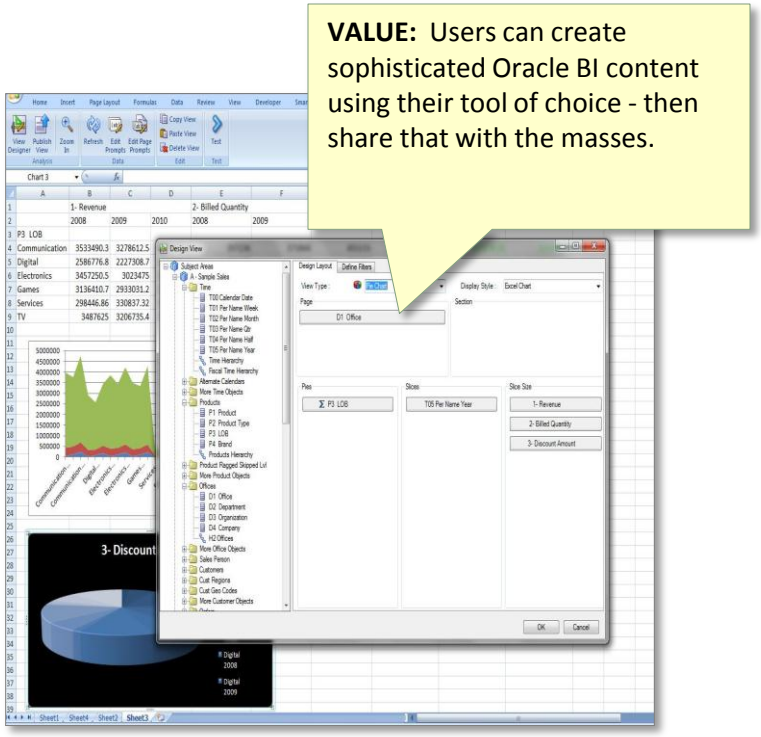
Generate BI Content In Smart View

New in Oracle BI 11.1.1.7.0 and Smart View 11.1.2.2. Current Office capabilities center largely on consumption. This new feature will cater to Excel power users who want to leverage Oracle BI yet create new analyses without learning additional new tools.

- BI View Creation
  - Answers View creation from Office
  - Save natively or as an Answers View
  - Publish and save in the OBIEE Web Catalog
- Extensibility
  - OBI Data is accessible to other Smart View providers (e.g. Planning, HFM, DM)



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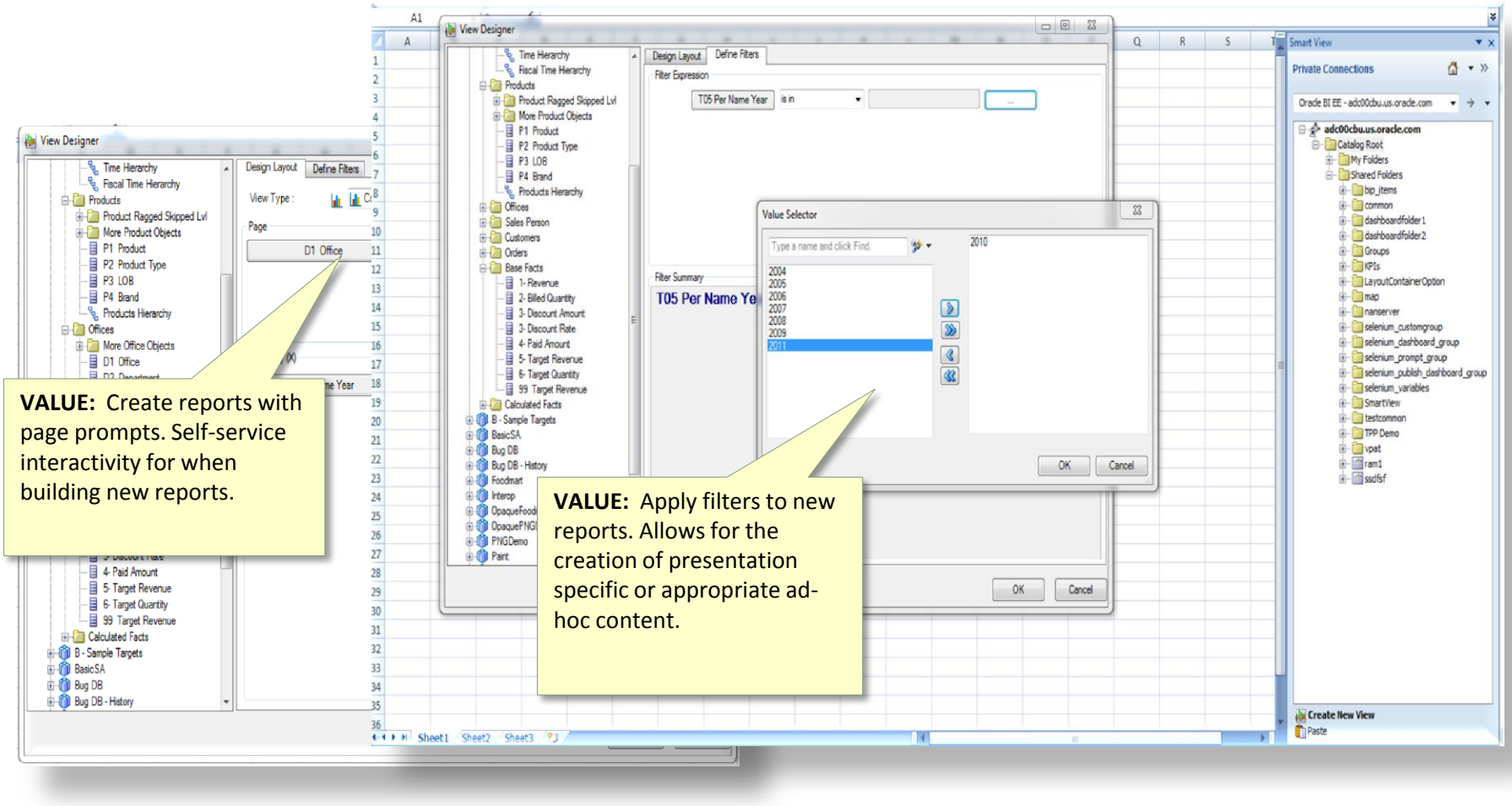
View Designer

Create and Apply Prompts to new Reports



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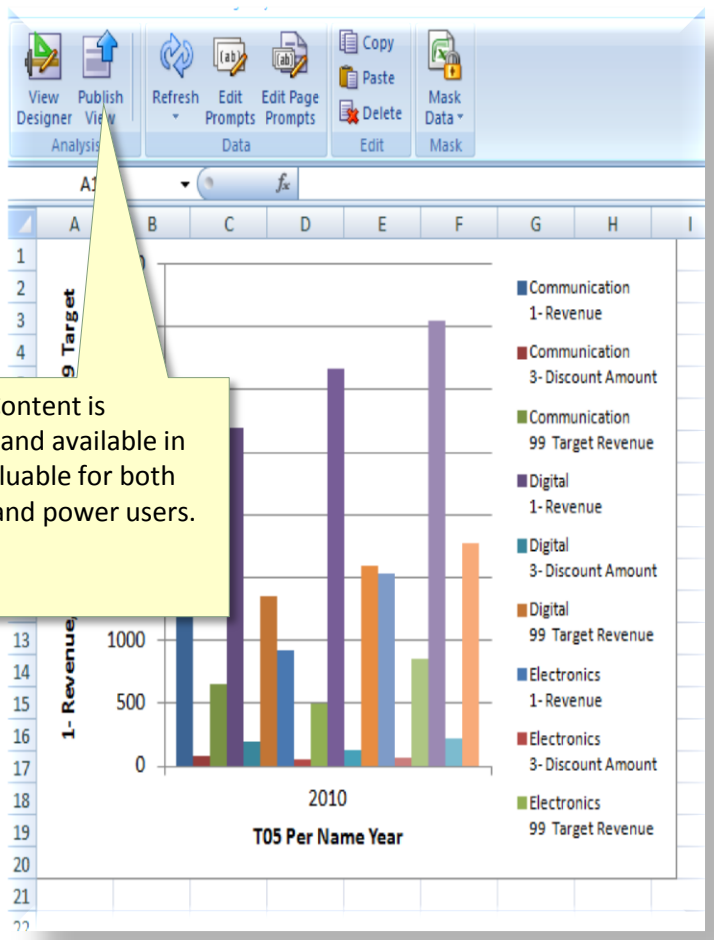
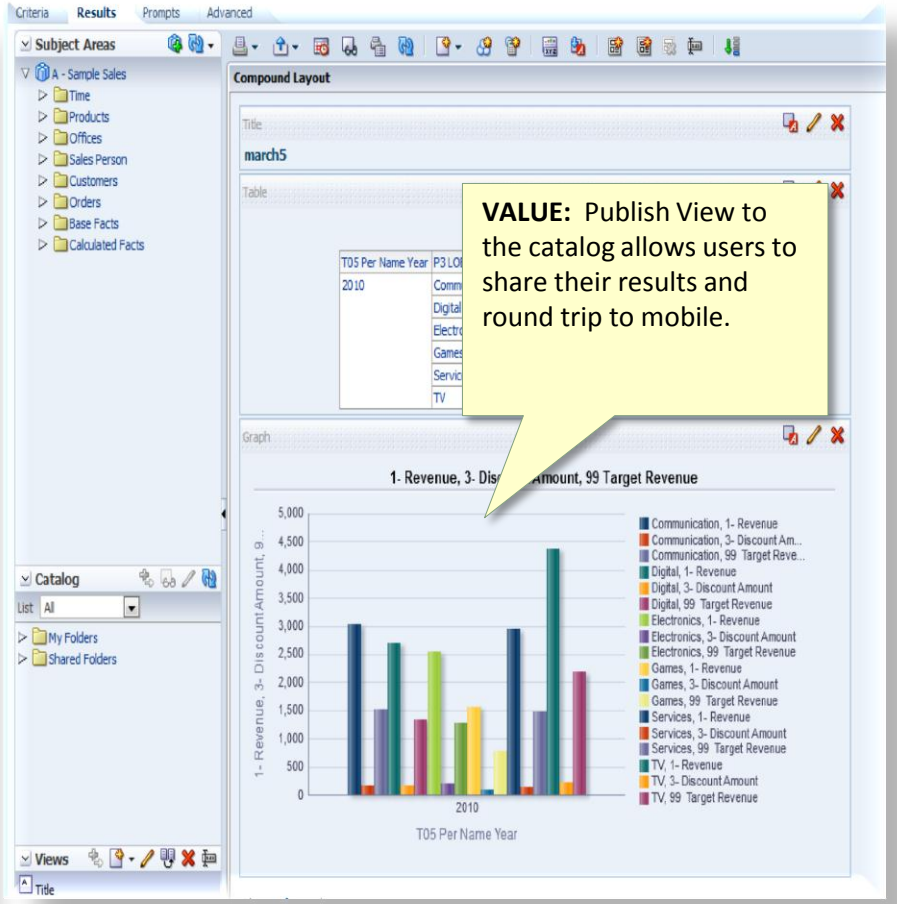
Publish to the BI Catalog

Generated Views in Office can be saved to BI



VALUE: Content is rendered and available in Office. Valuable for both business and power users.



VALUE: Publish View to the catalog allows users to share their results and round trip to mobile.

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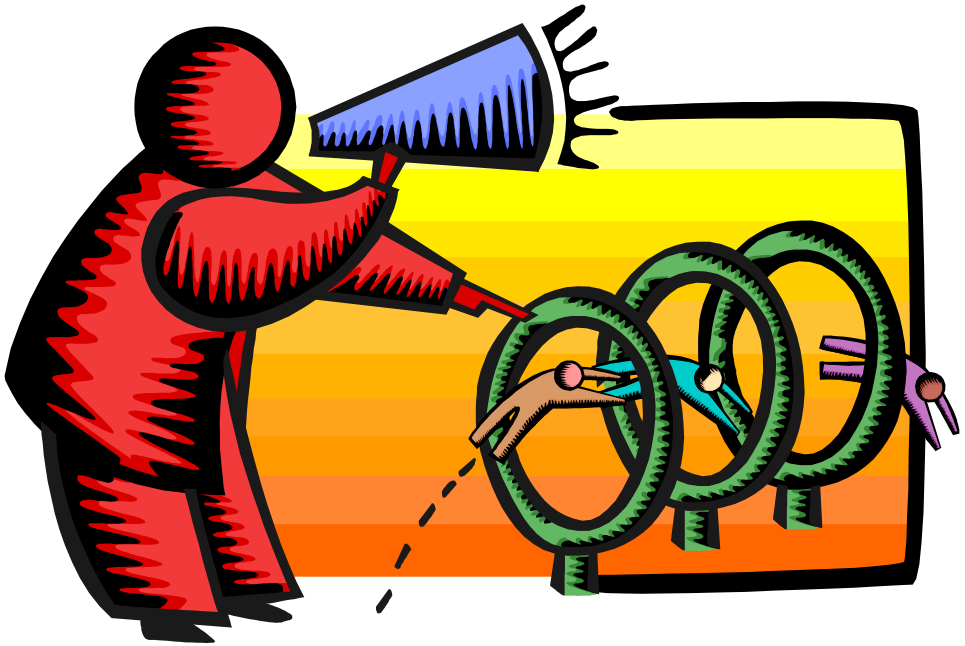
Demonstration of New Features



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Integration of Other Oracle Data Sources

- Integration of Endeca into BI Search
- Hadoop integration with Native HiveQL
- Oracle R Enterprise (ORE) integration

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Upgrading to 11.1.1.7

- Must be on 11g already
- Out of place upgrade
  - Install software separate
  - Migrate your RPD and other files
- In place upgrade
  - Not recommended prior to 11.1.1.6
  - Patch up to 11.1.1.7
  - Not able to run both versions simultaneous on server
- See http://www.rittmanmead.com/2013/04/upgrading-obiee-to-11-1-1-7/ for details

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Recent and Future Vlamis Presentations

- Collaborate 13 April 7 - 11, 2013 • Denver, CO
- Advanced Dashboard Design in OBI 11g
- Advanced OLAP: Making the Hard Stuff Easy
- Blazing BI: The Analytic Options to the Oracle Database
- Map Views and Geospatial Analytics in OBI 11g
- Vlamis Process and Maturity Model: BI Project Best Practices
- Data Visualization Best Practices in Oracle Business Intelligence 11g
- Mobile BI: Using When and Where You Need It
- Encore Presentation of OBIEE 11.1.1.7 TechCast April 18, 2013
- What's New in OBIEE 11.1.1.7 IOUG BIWA TechCast
- Central States OAUG Spring 2013 Executive Summit
  April 30, 2013 • St. Louis, MO
- Location Intelligence and Oracle Spatial and Graph User Conference
  May 21 - 22, 2013 • Washington, D.C.
- Using Maps for BI Analysis at the USDA
- ODTUG KScope 13 June 23 - 27, 2013 • New Orleans, LA
- Making Sense of Oracle's Business Intelligence and Analytics Offerings

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Oracle Test Drive

- Free to try out Oracle BI
- Go to www.vlamis.com/testdrive-registration/
- Runs off of Amazon AWS
- Hands-on Labs based on Collaborate 2012 HOLs
- Test Drives for:
  - Oracle BI
  - BI Publisher
  - Microsoft Excel against Oracle OLAP
  - Oracle Data Mining
  - Map Views in OBIEE
- Once sign up, you have private instance for 5 hours
- Available now

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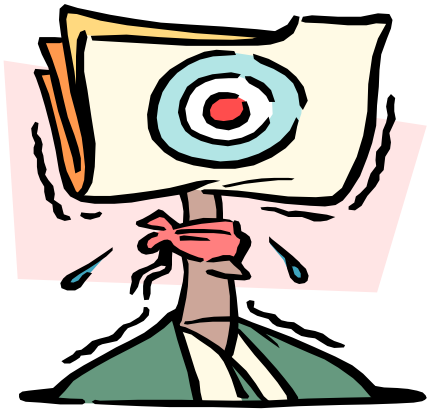
Questions?



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IOUG BIWA: www.ioug.org, www.oraclebiwa.org
BIWA Virtual Summit: http://oraclebiwasig.blogspot.com/
SampleApp: http://www.oracle.com/technetwork/middleware/bi-foundation/obiee-samples-167534.html
OBIEE Doc (New Features for Oracle BI EE 11g Release 1 (11.1.1.7))
http://docs.oracle.com/cd/E28280_01/bi.htm - See New Features in guides
OBIEE upgrade
http://www.rittmanmead.com/2013/04/upgrading-obiee-to-11-1-1-7/
BI Tech Demos by SampleApp team on YouTube
http://www.youtube.com/channel/UCXpjKAy010SDUXmAA67DILg

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