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ORACLE BUSINESS INTELLIGENCE FOUNDATION SUITE 11g WHAT'S NEW

COMPLETE AND INTEGRATED

KEY NEW FEATURES

- Visualization recommendation engine
- New Performance Tile and Waterfall visualizations
- Support for Oracle Endeca Information Discovery
- Access to Apache Hadoop data sources
- Enhancements to the Oracle BI Summary Advisor
- Smart View integration with Oracle BI

Oracle Business Intelligence Foundation Suite 11g provides comprehensive capabilities for business intelligence, including enterprise reporting, dashboards, ad-hoc analysis, multi-dimensional OLAP, scorecards, and predictive analytics on an integrated platform. It is also a core component of Oracle Exalytics, the industry's first engineered in-memory analytics machine designed to deliver extreme performance.

New Features Overview

The new release of Oracle Business Intelligence Foundation Suite 11g, Release 11.1.1.7.0, features more than two hundred enhancements across the suite, designed to add new functionality, improve performance, and deliver an enhanced end-user experience. The following sections describe the major new features in this release of the Oracle Business Intelligence Foundation Suite.

Enterprise Application Visualizations and User Experience Enhancements:

Data-driven visualizations transform the way a user absorbs and understands the information at hand. In this release, new powerful visualizations are available in Oracle Business Intelligence.

- **View Suggestions.** When creating visualization, a user can select the "Recommended Visualization" feature to let Oracle Business Intelligence Foundation Suite guide them to a recommended visualization, based on the user data and the intent of the analysis. This feature can help in creating data visualizations tailored specifically for the data at hand, accelerating the analyst's view to data-driven insights.

KEY BENEFITS

- Drive innovation by analyzing structured and unstructured data
- Optimize analysis with enhanced visualizations, EPM and Analytic applications, and mobile BI
- Simplify IT through engineered systems and integration through the technology stack

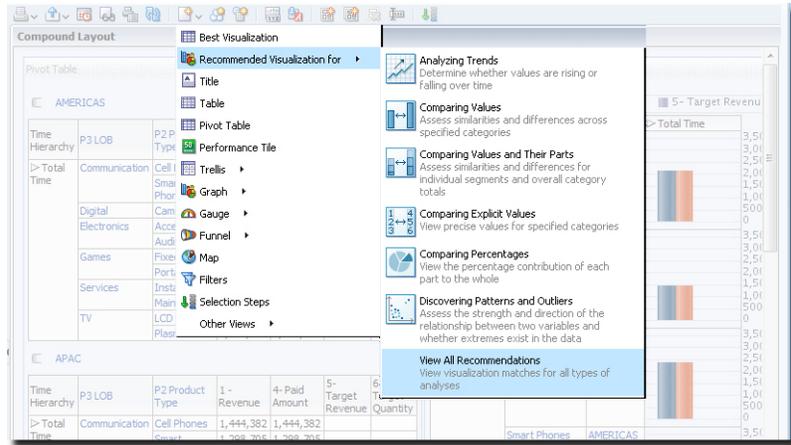


Figure 1. Recommended Visualization Menu

- **Performance Tiles.** A performance tile displays a single aggregate measure in a visually prominent manner. It is an ideal way of displaying and calling out attention to a metric or set of metrics of interest on a dashboard. A user can select from a list of options to customize the performance tile, including applying a style, size, and conditional formats.
- **Waterfall.** A waterfall graph lets a user view how each value in a series incrementally affects the whole by showing how an initial price is affected by various discounts and options. This is the preferred visualization in a number of applications including pricing analysis, where it aids in identifying pricing leakages.
- **Map Views.** Map Views support the ability to format a line to vary its color based on one measure, but to also vary its thickness by a second measure. For example, an airline route could be color coded based on the number of flights flown, and its thickness based on the average revenue per seat.
- **100 Percent Stacked Chart.** A subtype, 100% Stacked, has been added to both the bar and area graphs. This graph shows values as percentages, and because it normalizes the data between values of 0 and 100 percent, makes it comparison of values easier across series and groups.



PRODUCTS

- Oracle Business Intelligence Enterprise Edition
- Oracle Scorecard and Strategy Management
- Oracle Essbase
- Oracle Essbase Analytics Link
- Oracle Business Intelligence Mobile

Figure 2. Examples of new visualizations in a Dashboard

- **Null Non-Suppression.** Analyses often have sparse data that includes null rows and/or columns. A new option, available at the analysis level, allows users to display this data. It can be overridden at the view level, providing flexibility and convenience to designers to control how data is displayed for different views in the same analysis.
- **Breadcrumbs.** As the name suggests, breadcrumbs are an aid to navigation, and help users understand not only their present location within an application but also the path they took within the application to arrive at their current location. This navigational aid is displayed at the bottom of the page, and a user can click on any section of the breadcrumb.
- **Trellis View Actions.** Action links are a powerful way to provide contextual functionality to users within visualizations as well as dashboards. The high-density Trellis Views that are available in OBIEE now support action links for both Simple and Advanced Trellis views. In addition, action links are available in legend and axis labels in Trellis views.
- **Freeze Headers.** A new option – “Freeze Column” – for tables, pivots, and Advanced Trellis views, keeps the headers positioned at the top of the view, even as a user scrolls down the dataset. This feature can be switched on or off for a particular view from the properties panel of the view. In the Oracle BI Mobile HD app, this is available via a two-finger swipe gesture.
- **Search with Endeca MDEX.** Integrating the Oracle Endeca Information Discovery Server with OBIEE allows for a full-text search with the option to filter the search results by attributes like *Type*, *Name*, *Path*, and *Created By* to obtain a quicker and more targeted answer.

In addition, there are several other enhancements in this area, including Adding to Favorites, the ability to add action links from totals, and set variables with hierarchical prompts. Users can also take advantage of new BI desktop tools for download, placement control of totals in a hierarchy, a new default style for dashboards, integration with Oracle Enterprise Performance Management System, and more.

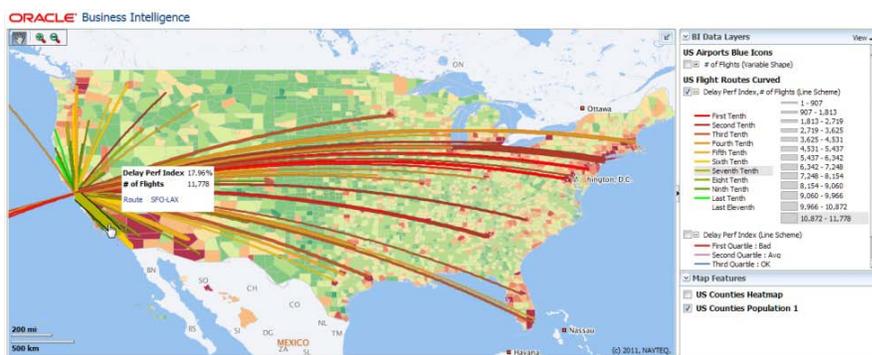


Figure 3. Map Views with line formats and Feature Themes in a Dashboard

Oracle BI Mobile HD Enhancements:

The new release of Oracle Business Intelligence Foundation Suite also features a variety of enhancements for end users on their mobile devices. Users can utilize the visualizations optimizations of the new Oracle Business Intelligence Foundation Suite release with more mobile friendly gestures, enhanced capability for controlling and viewing content - all without compromising security.

RELATED PRODUCTS

- Oracle Exalytics
- Oracle BI Applications
- Oracle Endeca Information Discovery
- Oracle Real Time Decisions
- Oracle Planning, Budgeting, and Forecasting
- Oracle Profitability and Cost Management
- Oracle Financial Close and Reporting

- **Maximize Views.** When working with data-dense views, or where users may want to view the data in a full-screen mode on their tablet, they can do so by double-tapping the view.
- **Support for new visualizations.** New visualizations added in this release, like the Performance Tile, 100 percent stacked graphs, Waterfall, etc... are all available in the mobile app. Furthermore, users can also use touch interactions like tap, swipe, double-tap, tap-and-hold. For example, to scroll through the rows of a table, pivot, or trellis view where the headers have been fixed, users can use the single-finger drag gesture.
- **BI Publisher mobile enhancements.** Users can open BI Publisher reports and view them in dashboards. BI Publisher content is fully interactive, with support for prompts. Additionally, users can save BI Publisher content for local (offline) consumption.
- **Security Toolkit.** The Oracle BI Mobile Security Toolkit provides a solution for Oracle BI Mobile customers who require higher levels of mobile device security than is provided by the mobile operating systems or through the Oracle BI mobile application itself. It is a repackaged, unsigned and uncertified version of the Oracle BI Mobile HD application that will allow a customer to combine the application with their chosen third party Mobile Device Management (MDM) security solution, sign it with their corporate signature and deliver it as part of their chosen mobile application delivery mechanism.

Oracle BI OBIEE Server Enhancements.

A variety of server enhancements are an integral component of the new Oracle Business Intelligence new release. Optimized to run on Oracle Exalytics In-Memory Machine, the new Oracle Business Intelligence Foundation Suite is designed to deliver extreme performance as a comprehensive solution that runs on an integrated platform.

- **Hadoop Integration.** Hadoop is the preferred framework for creating MapReduce programs to process big data across clusters. The latest release of Oracle Business Intelligence Foundation Suite supports accessing Hadoop via a Hive ODBC interface. This eliminates the need to write MapReduce programs; the Oracle BI Server directly issues commands to Hive to query and fetch data from Hadoop data sources.
- **Model Checker.** Issues in metadata repositories can adversely affect the efficacy and success of the Oracle BI Summary Advisor and the aggregate persistence engine. The Model Checker can check the metadata repository in online mode and flag any potential issues it identifies for remediation. The model checker makes use of query parallelism to optimize its performance. The model checker can also be run from the command line using the `validaterpd` utility. This is useful when integrating the model checker in the user's automation plans.
- **Binary Large Object Data.** Support for Binary Large Objects (commonly referred to as BLOB) allows for images to be displayed alongside data, maps, and graphs in reports. This allows users to present data in a truly multi-media format, by displaying employee images alongside employee data, product images next to product sales data, or supplier logos next to supplier records, etc...
- **IBM WebSphere Application Server Support:** IBM WebSphere Application Server is a web application server for hosting Java based applications. Oracle Business Intelligence now supports WebSphere version 7 on the Linux 64-bit operating system (please refer to the System Requirements and Supported Platforms for Oracle Business Intelligence Suite Enterprise Edition document for further details on certified versions). Users can use the Oracle BI Configuration Assistant to deploy Oracle Business Intelligence Foundation Suite on WebSphere.

- **Essbase Integration** – The integration of Essbase with Oracle Business Intelligence Foundation Suite has been enhanced in several areas in this release. Oracle BI and Essbase can be installed by a single installer, share a common Fusion Middleware security model, and can be managed through Oracle Enterprise Manager. In addition, this integration between the Oracle BI Server and Essbase also supports features such as write-back and Essbase as an Aggregate Persistence target.

Other enhancements in this area include support for multi-source session variables, support for NUMERIC Data Type for Oracle Database and Oracle TimesTen, support for Servlet Communication Between the Oracle BI Server and Oracle OLAP, and more.

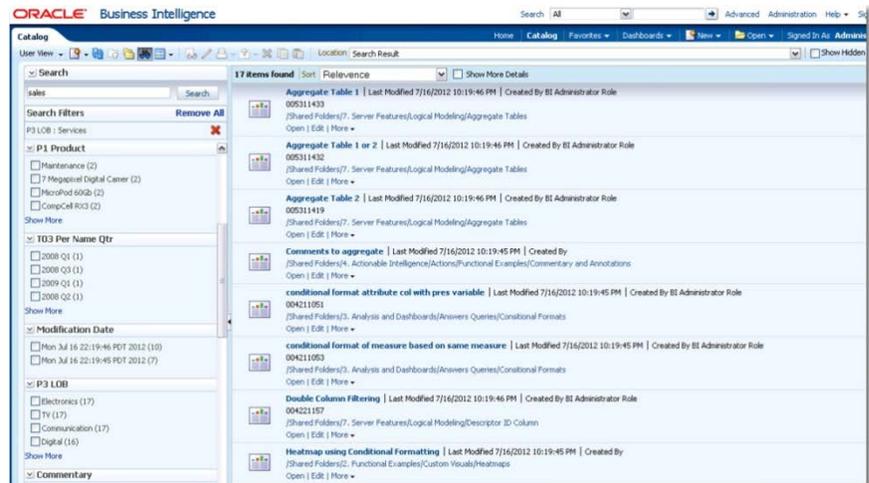


Figure 4. Oracle BI and Endeca Information Discovery Search Integration

- **Enterprise Reporting and Printing Enhancements. Export Dashboard to BI Publisher.** Users can take an entire dashboard and export it to a BI Publisher format layout. The underlying data model and BI Publisher reports are automatically created in the background, as are all supported views and styles. Additionally, users can export an entire dashboard to supported Microsoft Office formats.
- **Export Dashboards & Dashboard Content.** Users can export reports in native Microsoft Excel and PowerPoint formats (Microsoft Office 2003, 2007, and above formats supported). Similarly, Dashboard and Dashboard pages can also be exported to supported Microsoft Office formats. If users export an entire Dashboard, the individual dashboard pages appear as separate Microsoft Excel worksheets in the generated export.
- **Reporting Access to Semantic Layer.** Users can create “Subject Area Reports” that run directly against the Oracle BI Server, and therefore do not need to create an additional BI Publisher data model. The logical SQL generated is executed directly against the BI Server.
- **Template Based Printing of Dashboards.** Users can get high-fidelity print outputs of their dashboards by selecting among multiple templates associated with the dashboard as they generate the printing option.
- **Enterprise Reporting Data Sources Enhancements.** BI Publisher supports connecting to an Oracle Endeca Information Discovery data store. Users can now define EQL (Endeca Query Language) queries to retrieve the data from the Oracle Endeca Server to use in BI Publisher reports. In addition, users can leverage locally stored or shared XML or CSV files as data sources. Private ODBC or JDBC data source connections can also be created to be used in data sets. This eases the burden on administrators to create individual connections, and makes self-service report creation easier. Administrators, however, can still view,

modify, and delete these private data source connections, if needed. Users can also use MDX (Multi-dimensional Expressions, a query language for OLAP databases) queries against OLAP data sources such as Essbase cubes that return multidimensional cell sets that contain the cube's data. Furthermore, users have the flexibility of either manually entering the MDX query or using the MDX Query Builder to build the query.

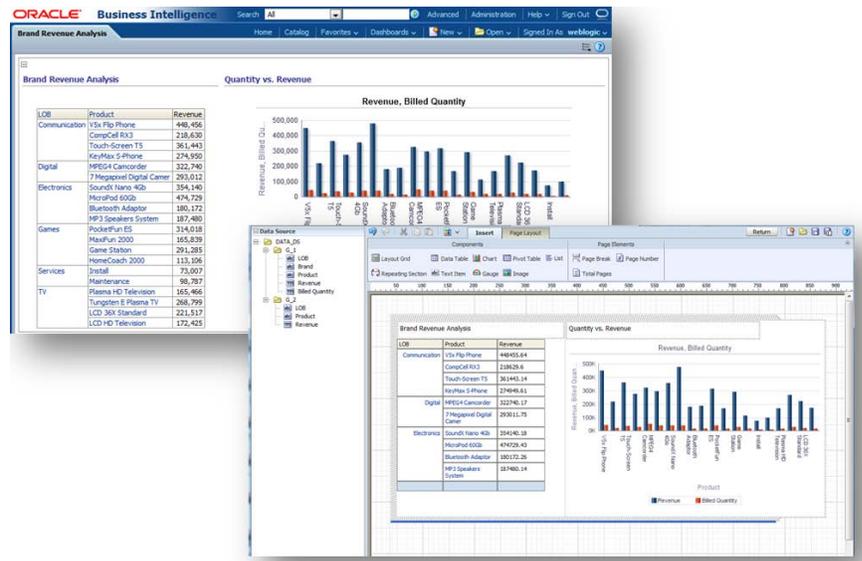


Figure 4. Export dashboard to BI Publisher layout, with automatic model and report creation

Office and other Integration Enhancements.

Integration of Oracle BI with Oracle Hyperion Smart View for Office has been substantially enhanced in this release. While the existing Oracle BI Add-in for Microsoft Office continues to be supported, it is recommended that customers use Smart View as the primary application for integrating with Office.

- **BI Presentation Catalog in Smart View.** The latest release of Smart View fully supports BI dashboard page and report prompts. Security has been enhanced by supporting single sign-on.
- **BI View Creation in Smart View.** Using the Smart View add-in, users can create Answers views directly from Excel. Users can then choose to save this view either in Excel or as an Answers view in their catalog. The Oracle BI data in Smart View is also accessible to other Smart View providers like Oracle Hyperion Planning, Oracle Hyperion Financial Management, and Oracle Hyperion Disclosure Management.

In summary, the latest release of Oracle Business Intelligence Foundation Suite is a comprehensive solution delivering enterprise reporting, dashboards, ad-hoc analysis, scorecards, what-if scenario analysis and predictive analytics on an integrated and trusted platform. Users can even utilize the power of analytics on their mobile devices, from anywhere in the world, without compromising data quality or security. As the #1 vendor in business analytics with the industry's most complete and integrated range of enterprise-class business intelligence solutions, Oracle leads the way in helping organizations gain more

insight, across more data, and drive better outcomes in every aspect of their business.

Contact Us

For more information about Oracle Business Intelligence Foundation, visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.



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Hardware and Software, Engineered to Work Together