OBIEE Upgrade from 11G Oracle Business Intelligence 11.1.1.7.140527 to 12C Oracle Business Intelligence 12.2.1.1.0
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Application Overview

Oracle Business Intelligence 12c is a unique platform that enables customers to uncover new insights and make faster, more informed business decisions by offering agile visual analytics and self-service discovery together with best-in-class enterprise analytics. Instant mobile, highly interactive dashboards, powerful operational reporting, just-in-time alerts, content and metadata search, strategy management, native access to Big Data sources, sophisticated in-memory computing, and streamlined systems management combine to make Oracle BI 12c a comprehensive solution that reduces the total cost of ownership and increases return on investment for the entire organization.

Oracle BI Enterprise Edition is a powerful tool for analyzing and presenting data. Oracle BI Enterprise Edition (sometimes referred to as Oracle Business Intelligence) provides a full range of business intelligence capabilities that allow you to:

- Collect up-to-date data from your organization
- Present the data in easy-to-understand formats (such as tables and graphs)
- Deliver data in a timely fashion to the employees in your organization
- These capabilities enable your organization to make better decisions, take informed actions, and implement more-efficient business processes.

What Is the Oracle BI EE Home Page?

The Home page provides a starting point for performing tasks in Oracle BI EE. The Home page is divided into sections that allow you to begin a specific task or locate an object. It also includes sections (for example, Recent and Favorites) that allow you to access objects that you have recently viewed, created, or updated, and objects that are accessed the most often by the users assigned to the groups to which you belong.
OBIEE 12C

Upgrade to 12C

What to expect?

You might be wondering what kinds of issues you can expect to experience during upgrading to OBIEE 12c (which is to say, nothing’s going to break, right?). Are you going to have to go through a big training curve? We have listed our findings that we came across while testing / upgrading to 12C from 11G. This includes UI Look and Feel, New Features, Enhancements (if any). OBIEE 12C has many new features like Visual Analyzer, Data mashup and Mobile Application (which are Not currently available)
OBIEE 12c Enhancements

*Look and feel changes:*

- NEW UI DESIGN: cleaner-looking, compatible with other Oracle products

OBIEE 12C

- Slight difference between 11G and 12C page/catalog icons:
  11G – More Graphics

12C - Less Graphics

11G – More bright colors with graphics on New and Open icons

12C – Light colors and no graphics on New and Open Icon

- GRAPH GRAPHICS SIMPLIFIED: 11 used gradients, shadows in graph renderings. 12 has simpler, flat graphics; view rendering in general is improved
• **SETTINGS/PROPERTIES ICON CHANGED**: The 3 lines icon at the right has changed to a gear icon

---

**11G**

Cost Analysis by PTA report for Graphs display

Select View to Display

Pie Chart - Amount by WO Type

Amount by Type

- ESTIMATING
- FOLLOW-UP
- PREVENTIVE
- PROJECT
- REACTIVE
- SHOP/office time
- SYSTEM OPERATIONS

**12C**

Cost Analysis by PTA report for Graphs display

Select View to Display

Pie Chart - Amount by WO Type

Amount by Type

- ESTIMATING
- FOLLOW-UP
- PREVENTIVE
- PROJECT
- REACTIVE
- SHOP/office time
- SYSTEM OPERATIONS
User Interface (UI):

Below are the changes from 11G to 12C that user might notice

- HIDE COLUMN: The option to hide a column is no longer included in the right-click menu on a column in the result. We can use the Exclude Column option to remove from the view.
Pop up message for previous server requests does not appear in 12c.

When we hit on “Apply” button of the prompts while an existing dashboard request is pending with the server, we get a pop up confirmation in 11G. Whereas is 12c, we will not be getting a pop up dialog box but the new request will be passed to the BI Server.

Apply All prompts in HRM dashboard has a UI difference in 12c

The Apply All prompts in HRM dashboard is used to pass values from 3 sets of prompts into the report and compare salaries between different conditions. In 12c, this prompt will be as just one set and the UI will be a little different from that of 11g.
The export option in 12c BI Publisher is a little different from that as the 11G. We must click on the wheel icon to choose the export options.
### OBIEE 12C

The image shows a screenshot of the Oracle Business Intelligence Enterprise Edition (OBIEE) 12C user interface. The screen displays various options and input fields for user interactions, including search, filter, and export options. The interface is designed for data analysis and reporting, with options to export data in HTML, PDF, Excel, and CSV formats.

### 12C

The second screenshot appears to be a continuation of the OBIEE 12C interface, showing similar functionalities and options for data management and analysis.

### 12.2.1.1.0

Page 12
The search options in LOV for the BIP prompts shows in the selected region by default. But in 11G it does not show as such. This is a default behavior in OBIEE 12c.
Ad hoc Reporting

Enhanced Features

- Column properties can now be modified from the results tab too. The existing feature of modifying it from the criteria tab is still available, but this an additional option we have in 12C

- ACCOUNT PERSONALIZATIONS – You can pick desired sort order on subject areas
Personalization such as specifying preferred subject area sort or preferring to edit analyses by starting on the criteria page can also be done.

- Percent Format Options: New Data Format properties allows for an auto “scale for % (x100)” (Except in Performance Tiles)

- GRAPH/CELL CONTEXT MENU: Right-click all graphs and cells to sort or send Master/Detail event
SUBJECT AREA SEARCHING: Enhanced subject area pane – allows searching for a field of interest
New Features/Added Functionality

- **CALCULATED COLUMNS**: Can add a calculated column in the results area, by clicking on the stubby ruler icon at the top. (Before you had to be in the Criteria tab and had to just co-opt another column to make a calculated column.) Also can save them for reuse in another analysis.

- **New FUNCTIONS**: New folder Analytics with functions Cluster, Evaluate Script, Outlier, Regr, Trendline. In the Aggregate folder there is a function named bin and in the Time Series Calculations folder we have the Forecast function.
OBIEE 12C

- **GLOBAL IMAGES LIBRARY**: When editing a dashboard, one of your choices is to add a Link or Image and it takes you to the Images Library where you can add/upload an image or use any pre-existing one. Can't get to the image library on its own though – have to access it through the above process OR if you remember the name of your image, can use the web catalog search to search for it.

- **GLOBAL VARIABLE CAN CONTAIN FORMULAS**: Global variable can contain formulas as well as values

- **Added Views**: Heat Map, Tree Map are new graph views in 12C
OBIEE 12C

BUGS

- Hide property for Graph view: In 11g, the hide property was ignored for and the column and available in the graphing view. In 12c, the "hide" property is preserved even in the graph. It seems the 12c behavior would be considered the correct behavior, at least it seems more consistent. So, the hide property for the column is removed so that it will display data in 12c graphs.

- Columns that are moved to the table prompts section is not filtering the values properly and this is specific to Firefox browser.

- Page scrolls down: After selecting the prompts and clicking "Apply", The results page scrolls down to the spin control cursor which will retrieve more data. This is a 12c Bug.

- Few dashboard reports error out while exporting it to excel.
- Invoice Number prompt in 12c: Throws an Invalid JSON payload error.
- The footer text is truncated with in the first cell when it is downloaded to and Excel.
- Saved customizations that are migrated from 11G to 12C have issues for certain test cases. It gets applied to the report, but the values are not displayed in the prompt.

Open Issues (UAT – BI2)
• Graph color refreshes in BI2 – On refresh, the color of the graph changes in BI2. This is specific to BI2 environment and it does not occur in other 12c environments. Oracle SR 3-13427655251 opened for the Graph Changing color issue.

• In the exported excel, the column width is a more compared to 11G export
• Line chart, scale not rendering correctly in 12C graphs
• Union Dues BIP Report does not display data in the Results Section tab. Oracle SR 3-13459245051 opened for this issue
• When you hover over a table element, the display box freezes and renders when you change to a different chart view
• Adding an additional space in date value on the excel export
• Saved customization Issues - For few saved customizations, when they are applied the prompts are Blank/invisible but the reports still run
• Sort order is different for some 12c report....

....In 11G report descending sort is added only to the the Work Order Number column. By default, OBIEE takes the ascending sort order, unless otherwise specified. But in 11G some columns will get added to the report in addition to the specified sorting. In 12c reports, only the specified columns will be sorted and other columns are sorted by default

• BIP reports with default ‘ALL’ in the prompt, the search will have all the options listed on the right side select search box.
FAQ...?

Q: How is the support for visual analyzer, Data mash up and mobile services...?
A: OBIEE 12c supports mobile services and has new features like visual analyzer and data mash up (Not part of this release, requires additional License. Contact Sg)

Q: What should we do when we see an ODBC Error while we run a report...?
A: ODBC errors can be caused due to the several reasons like user access, database down time etc... Please create a HelpSu/Jira ticket for any such errors

Q: What access do we have in the new 12c live environment...?
A: The permission/privilege for the 12c environment will be as same as in 11G production. Please submit HelpSu/Jira ticket for any issues

Q: What database will this new 12c live environment point to...?
A: The data sources point to Production database

Q: How will my customizations from 11g be retained in this new 12c environment...?
A: Any ad-hoc content like: Saved customizations, My favorites, My folders – Ad hoc, Agents (created after 5/26) won’t be available and would have to be recreated. Setting up of delivery options for Agents/Delivered reports has to be done in the My Account settings. (Step by Step instructions provided in last three pages of this document).

Q: What exporting options are available in 12c ...?
A: Export to Excel 2003 not supported but higher versions like 2007+ are available. The other exporting options like PDF, CSV, HTML are same as in 11G

Q: What is the criteria for performance in 12c...?
A: The performance in 12c should be comparable to 11G. For any issue, please submit HelpSu/Jira and it will be taken on a case to case basis

Q: What are the compatible browsers for 12c...?
A: The compatible browsers are as follows
   - Microsoft Internet Explorer 11+
   - Firefox 31+
   - Google Chrome 45+
   - Safari 8.X

Q: Are the Browse/Manage and Get Started sections of the Homepage gone by design or are they returning?
A: These are the default settings in 12c OBIEE and will remain as such

Q: For the Download BI Tools, on the Homepage 11G has multiple options whereas 12C few... is that by design?
A: These are the default settings in 12c OBIEE and will remain as such

Q: In the list of values (LOV) how are the spaces before and after the value, being handled in 12C?
A: In 12c version. The spacing before and after the values will also be considered as part of that value. So, please remove any extra spaces while passing values to filters and prompts. 12c is sensitive to spacing
Appendix

Related Links

Production 12C URL - https://bi2.stanford.edu

AS-Confluence URL - https://asconfluence.stanford.edu/confluence/display/DMR/OBIEE+12c+JIRA+Metrics

(Exclusively for AS technical team)

JIRA URL - https://asjira.stanford.edu

Help SU - https://helpsu.stanford.edu

Related Documents


BI Publisher User Guide - https://docs.oracle.com/middleware/12211/bip/BIPUG/toc.htm

BI Publisher Data Modeling Guide - https://docs.oracle.com/middleware/12211/bip/BIPDM/toc.htm

BI Publisher Report Designer Guide - https://docs.oracle.com/middleware/12211/bip/BIPRD/toc.htm

Delivery Options Account Setup – Last three pages of this document
Delivery Options Account Setup

1. Click on My Account option in the drop down menu next to sign in setting

2. In the My Account screen, navigate to the Delivery Options tab
3. Click on the ‘+’ icon under devices and create a device to configure your email id for delivery

4. Click on the Delivery Profile and click on the + icon. Give some valid name like ‘Email’. Check mark normal option and click OK.
Your delivery profile option is all set!