

# Oracle® Fusion Middleware

## Release Notes for Oracle Business Intelligence

12c (12.2.1.4)

E91530-10

April 2024

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## Oracle Business Intelligence Release Notes

Learn about the issues you may encounter when using Oracle BI Enterprise Edition and Oracle BI Publisher, and how to work around them.

## Topics

These issues pertain to all areas of Oracle BI Enterprise Edition and Oracle BI Publisher, such as installation, migration, analyses and dashboards, metadata repository development, and system administration.

- [Compatibility of Oracle Business Intelligence with Oracle Fusion Middleware](#)
- [Obtain Patches from My Oracle Support](#)
- [Oracle Business Intelligence General Issues and Workarounds](#)
- [Oracle Data Visualization Issues and Workarounds](#)
- [Oracle Business Intelligence Analyses and Dashboards Issues and Workarounds](#)
- [Oracle BI Publisher Issues and Workarounds](#)
- [Oracle Business Intelligence Documentation Errata](#)

# Compatibility of Oracle Business Intelligence with Oracle Fusion Middleware

It's important that you understand the compatibility of Oracle Business Intelligence with Oracle Fusion Middleware.

## Two Versions of the Oracle Business Intelligence Installer

Note that Oracle Business Intelligence Installer has two versions:

- Oracle Business Intelligence 12.2.1.4 Installer for Oracle Fusion Middleware 12.2.1.4
  - Supports Oracle Database Client 19c.
  - Doesn't include Oracle Essbase.

### Note:

To download the Oracle Business Intelligence 12.2.1.4 Installer for Oracle Fusion Middleware 12.2.1.4, see the instructions in My Oracle Support Doc ID [3004029.1](#).

- Oracle Business Intelligence 12.2.1.4 Installer for Oracle Fusion Middleware 12.2.1.3

Oracle recommends the Oracle Business Intelligence 12.2.1.4 Installer for Oracle Fusion Middleware 12.2.1.4. You must install Oracle Database Client 19c before you install Oracle Business Intelligence 12c with Oracle Fusion Middleware 12c 12.2.1.4.0.

The support for Oracle Fusion Middleware 12.2.1.3 is limited. See Oracle Business Intelligence Enterprise Edition (OBIEE) Error Correction Support (Doc ID 1664916.1).

## Important Installation and Upgrade Considerations

Before beginning the installation or upgrade process, understand the high-level steps for installing or upgrading Oracle Business Intelligence 12.2.1.4.0.

### Installation Considerations

If you're installing Oracle Business Intelligence 12.2.1.4.0 for the first time, see *Installing and Configuring Oracle Business Intelligence 12.2.1.4.0*.

If you are using Oracle Business Intelligence 12.2.1.4 Installer for Oracle Fusion Middleware 12.2.1.4, perform these steps:

1. Install Oracle Fusion Middleware 12c (12.2.1.4.0).
2. Install Oracle Database Client 19c.
3. Install Oracle Business Intelligence 12.2.1.4.0 using Oracle Business Intelligence 12.2.1.4 Installer for Oracle Fusion Middleware 12.2.1.4.

4. Apply the mandatory patches. See the list of patches you must apply in Roadmap for Installing and Configuring a Standard Installation Topology.
5. Configure Oracle Business Intelligence 12.2.1.4.0.

If you are using Oracle Business Intelligence 12.2.1.4 Installer for Oracle Fusion Middleware 12.2.1.3, perform these steps:

1. Install Oracle Fusion Middleware 12c (12.2.1.3.0).
2. Install Oracle Business Intelligence 12.2.1.4.0 using Oracle Business Intelligence 12.2.1.4 Installer for Oracle Fusion Middleware 12.2.1.3.
3. Apply the mandatory patches. See the list of patches you must apply in Roadmap for Installing and Configuring a Standard Installation Topology.
4. Configure Oracle Business Intelligence 12.2.1.4.0.

### Upgrade Considerations

If you've already installed Oracle Business Intelligence 12.2.1.4.0 and you want to upgrade to the latest update of Oracle Business Intelligence 12.2.1.4.0, see *Upgrading Oracle Business Intelligence 12.2.1.4.0*.

If you are using Oracle Business Intelligence 12.2.1.4 Installer for Oracle Fusion Middleware 12.2.1.4, perform these steps:

1. Install Oracle Fusion Middleware 12c (12.2.1.4.0) in a new Oracle Home.
2. Install Oracle Database Client 19c.
3. Install Oracle Business Intelligence 12.2.1.4.0 using Oracle Business Intelligence 12.2.1.4 Installer for Oracle Fusion Middleware 12.2.1.4.
4. Apply the mandatory patches. See the list of patches you must apply in [Obtain Patches from My Oracle Support](#).
5. Perform the upgrade steps in new Oracle Home to upgrade your existing domain.

If you are using Oracle Business Intelligence 12.2.1.4 Installer for Oracle Fusion Middleware 12.2.1.3, perform these steps:

1. Install Oracle Fusion Middleware 12c (12.2.1.3.0) in a new Oracle Home.
2. Install Oracle Business Intelligence 12.2.1.4.0 using Oracle Business Intelligence 12.2.1.4 Installer for Oracle Fusion Middleware 12.2.1.3.
3. Apply the mandatory patches. See the list of patches you must apply in [Obtain Patches from My Oracle Support](#).
4. Perform the upgrade steps in new Oracle Home to upgrade your existing domain.

## Obtain Patches from My Oracle Support

Periodically, Oracle Business Intelligence patches are released.

To learn more about the patches and find the available patches for your environment, see *Obtaining Patches Required For Your Installation* in *Patching with OPatch*.

If you install Oracle Business Intelligence 12c (by using Oracle Business Intelligence 12.2.1.4 Installer for Oracle Fusion Middleware 12.2.1.4) with Oracle Fusion

Middleware 12c 12.2.1.4.0 and Oracle Database Client 19c, apply the following patches:

- 34065178: Apply this patch if you are using a JDK version greater than 1.8.0\_331. This avoids the 500 Internal Server Error by the Analytics URL.
- BI12.2.1.4 BP: Apply this patch after upgrading Opatch to the latest version to avoid critical security vulnerabilities and to use the new features.

 **Note:**

You must download and apply the latest Oracle Fusion Middleware 12.2.1.4.0 patches.

If you install Oracle Business Intelligence 12c (by using Oracle Business Intelligence 12.2.1.4 Installer for Oracle Fusion Middleware 12.2.1.3) with Oracle Fusion Middleware 12c 12.2.1.3.0, apply these patches:

- 34065214: If you are using a JDK version greater than 1.8.0\_331, apply this patch to avoid the 500 Internal Server Error by the Analytics URL.
- BI12.2.1.4 BP: Apply this patch after upgrading Opatch to the latest version to avoid critical security vulnerabilities and to use the new features.
- Patch numbers 27823500, 27401639, and 27479453 - The Node Manager won't work with a non-Oracle database if you don't apply these patches.

## Oracle Business Intelligence General Issues and Workarounds

This section describes general issues and workarounds for Oracle Business Intelligence.

### Topics

- [Error Accessing Reports in a High Availability Environment](#)
- [Initialization Block for E-Business Suite Displays NQS Error Message](#)
- [Integration with and Migration from Oracle BI Discoverer Is Not Supported](#)
- [Reconfiguring Custom Messages in the BI Sample Application After Upgrade](#)
- [Exported BAR Files Don't Include Data Files](#)
- [BI Composer Unavailable in SSL Configuration](#)
- [IBM Informix Dynamic Server Not Supported as a Data Source for Oracle BI on Solaris x86-64](#)

### Error Accessing Reports in a High Availability Environment

In a high availability environment, users accessing reports from the Oracle BI EE search results might receive `Page not found` errors.

To work around this issue, go to the report URL and replace the alias host name (for example, `bihost1`) with the physical host name.

## Initialization Block for E-Business Suite Displays NQS Error Message

While creating a database object and connection pool for the Oracle E-Business Suite database, in the Oracle BI Administration Tool's Session Variable Initialization Block dialog, with Database as the Data Source Type, and Default initialization string selected, if you click **Test**, an expected error displays. The error message is `[nQSError: 23006] The session variable, NQ_SESSION.ICX_SESSION_COOKIE, has no value definition.`

The error is expected. The **Test** button command only works when the user links from the E-Business Suite, and the browser supplies the ICX cookie.

## Integration with and Migration from Oracle BI Discoverer Is Not Supported

Oracle Business Intelligence 12c does not provide support for integrating with or migrating from Oracle BI Discoverer.

You can ignore any mentions of such integration or migration in the documentation set. For example, Chapter 8, Using Discoverer Data in Applications, in *Integrator's Guide for Oracle Business Intelligence Enterprise Edition* is not applicable for Oracle Business Intelligence 12c.

## Reconfiguring Custom Messages in the BI Sample Application After Upgrade

When you upgrade to a new version of Oracle BI Enterprise Edition, custom messages in the sample application are overwritten.

When the BI Sample Application is upgraded, any customized messages saved to the reference file `signin.html` and message file `logonmessages.xml` are overwritten with the system default messages.

### Note:

For migration scenarios, the same two files must be replaced from Oracle BI Enterprise Edition 11g to 12.2.1.x.

You can back up your customized messages and add them to the new customization files after you upgrade.

1. Back up the following Oracle BI Enterprise Edition 12.2.1.x files that you have customized:
  - On UNIX: `$ORACLE_HOME/bi/bifoundation/web/msgdb/l_en/messages/logonmessages.xml` and `$ORACLE_HOME/bi/bifoundation/web/msgdb/pages/common/signin.html`
  - On Windows: `%ORACLE_HOME%\bi\bifoundation\web\msgdb\l_en\messages\logonmessages.xml` and `%ORACLE_HOME%\bi\bifoundation\web\msgdb\pages\common\signin.html`
2. After you have upgraded to the most recent version, reapply the custom messages in the `logonmessages.xml` and `signin.html` files:
  - On UNIX: `$NEWORACLE_HOME/bi/bifoundation/web/msgdb/l_en/messages/logonmessages.xml` and `$NEWORACLE_HOME/bi/bifoundation/web/msgdb/pages/common/signin.html`
  - On Windows: `%NEWORACLE_HOME%\bi\bifoundation\web\msgdb\l_en\messages\logonmessages.xml` and `%NEWORACLE_HOME%\bi\bifoundation\web\msgdb\pages\common\signin.html`
3. Stop then start the services.

## Exported BAR Files Don't Include Data Files

When you back up an instance into an Oracle Business Intelligence application archive (BAR) file, data files that you uploaded aren't included in the BAR file.

When you import the BAR file into a target system, only the metadata for the data files is imported, rather than the data files themselves. To work around this issue, upload the data files into the target system after importing the BAR file.

## BI Composer Unavailable in SSL Configuration

If your Oracle BI EE system is running with an SSL configuration, then you can't use BI Composer functionality.

This issue has no workaround.

## IBM Informix Dynamic Server Not Supported as a Data Source for Oracle BI on Solaris x86-64

DataDirect Connect ODBC drivers and driver managers for connecting to IBM Informix Dynamic Server (DS) databases aren't available for the Solaris X86-64 operating system. If your Oracle BI instance is running on the Solaris x86-64 operating system, then you can't use IBM Informix Dynamic Server as a data source.

For information on DataDirect drivers, see *Configuring the DataDirect Connect ODBC Driver for Informix Database in Metadata Repository Builder's Guide for Oracle Business Intelligence Enterprise Edition*.

# Oracle Data Visualization Issues and Workarounds

This section describes issues and workarounds for Oracle Data Visualization.

## Topics

- [Known Issues with Oracle Essbase Database Connections and Data Sources](#)
- [Null Values in XLSX File Set to String](#)
- [Error Importing XLSX Files Generated from Microsoft Access](#)
- [Error Creating a Data Set from a Microsoft Access Database Containing Spaces](#)
- [Connection Not Found Error Message After Importing Project and Opening Oracle Database Data Flow](#)
- [Time Series Forecast Step in a Data Flow Fails for Insufficient Number of Historical Values](#)

## Known Issues with Oracle Essbase Database Connections and Data Sources

The Oracle Essbase database connection type and Oracle Essbase data sources have a number of known issues.

This issue is applicable if you have installed Oracle Business Intelligence with Oracle Fusion Middleware 12.2.1.3.0.

- Searching for a specific column within an Oracle Essbase data source displays a "No Matches Found" message.
- When you click an Oracle Essbase data source column from the BI Ask search results, you'll see an "Error Loading Data" message.
- The Advanced Analytics functions don't work for Oracle Essbase data sources.
- If you create an Oracle Essbase connection and provide invalid login information, you'll see this incorrect error message: "Failed to save the connection. JDS - Invalid syntax." The error message should state "Failed to save the connection due to an invalid user name and password."
- When creating an Oracle Essbase connection, you can choose the **Require users to enter their own username and password** authentication option, but Oracle Analytics Desktop doesn't activate this behavior and instead authenticates all users with the user name and password that you specified.
- Time-based columns are sometimes not imported correctly. A column displaying a date in text can't be converted to a column of date data type because of format mismatch.
- Oracle Essbase data sources don't work in data flows.
- When working in a project, you can't use match columns to join an Oracle Essbase data source to any other data source included in the project.

- When you import an Oracle Essbase data source, you can't prepare the data, and you can't edit the data after import. For example, you can't change a column's data type or aggregation.

## Null Values in XLSX File Set to String

If you're adding an XLSX file as a data source and if the spreadsheet's null values are expressed as hyphens, then Oracle Analytics treats the null values as strings irrespective of the other values in the column.

To work around this issue, remove the hyphens from the column and try to import the XLSX file again.

## Error Importing XLSX Files Generated from Microsoft Access

Importing an XLSX file generated from Microsoft Access can sometimes fail. Data visualization can interpret such XLSX files as headerless or even empty.

Perform the following procedure to work around this issue.

1. Open the Access-outputted XLSX file in Microsoft Excel.
2. Select a cell.
3. Make and reverse a change. For example, select the top left cell, type an x, and then remove the X.
4. Save the file.

You can now import this modified file successfully.

## Error Creating a Data Set from a Microsoft Access Database Containing Spaces

If you're creating a data set from a Microsoft Access database and the database contains schema, table, or column names with spaces (for example, Asset Category rather than AssetCategory), then you get an error and the creation of the data source fails.

Perform the following procedure to work around this issue.

1. Open the database in Microsoft Access.
2. Remove the offending spaces.
3. Save the database.
4. Build the data source again.

## Connection Not Found Error Message After Importing Project and Opening Oracle Database Data Flow

If you import a project that is sourced from an Oracle Database then try to open the data flow, you might see an error message that connection can't be found.

To work around this issue, click the connection name, select it again, and save and reopen the data flow.

## Time Series Forecast Step in a Data Flow Fails for Insufficient Number of Historical Values

The Time Series Forecast step requires a minimum number of historical values for every group to be forecasted; otherwise, the step produces an error when the data flow is previewed and executed.

All columns except for the selected **Target** and **Time** columns will be used for grouping, which can create a large number of groups if the columns aren't selected prior to the **Time Series Forecast Step**. To work around this issue, select the appropriate columns for the **Time Series Forecast Step** before previewing or executing the step.

## Oracle Business Intelligence Analyses and Dashboards Issues and Workarounds

This section describes issues and workarounds for Oracle Business Intelligence analyses and dashboards.

### Topics

- [Treemap View Fails to Download in PDF, Excel, or Powerpoint Format](#)
- [Archiving and Unarchiving Dashboards Loses Links for Analyses](#)
- [Prompt Value Reset to All Column Values](#)

### Treemap View Fails to Download in PDF, Excel, or Powerpoint Format

If an analysis includes a treemap view, you can't properly export the results to Adobe Acrobat, Microsoft Excel, or Microsoft Powerpoint unless Oracle BI EE was installed with the correct version of the Java Development Kit (JDK).

To work around this issue, install JDK 1.8.0.60 on the Oracle BI Server machine. The JDK version must be 8u60 Build b10 or later. You must install JDK before you install Oracle BI EE.

### Archiving and Unarchiving Dashboards Loses Links for Analyses

When you archive a dashboard and unarchive it on another server, you might notice that some or all links below analyses on that dashboard are missing.

To work around this issue, ensure that the catalog folders and objects on the destination server match the structure on the original server.

## Prompt Value Reset to All Column Values

You can create prompts and make every prompt dependent on all other prompts.

When you then select a value in a prompt, the query for each prompt is recreated. You might find that the previously selected value of some prompts is reset to "All Column Values," and the query returns no results. To work around this issue, don't make all prompts dependent on each other.

## HASH GROUP BY Operation Isn't Supported in SQL Expressions

The prompt values are incorrect when you use the HASH GROUP BY operation in SQL expressions for prompts.

To work around this issue, use ORDER BY instead of the HASH GROUP BY operation in SQL expressions.

## Oracle BI Publisher Issues and Workarounds

This section describes issues and workarounds for Oracle BI Publisher.

### Topics

- [Bar Charts Showing Time on the X-Axis Don't Display Axis Labels Correctly](#)
- [BI Publisher Displays PDF File Error Message when Printing with ScheduleService Web Service](#)

### Bar Charts Showing Time on the X-Axis Don't Display Axis Labels Correctly

When an Oracle BI Publisher report using BI Publisher Template (.xpt) includes a bar chart and if Time is represented along the x-axis, then the x-axis labels aren't displayed properly.

The first label entry is skipped and the first bar data appears glued to the y-axis. This issue is caused by a limitation in the data visualization libraries that Oracle BI Publisher uses to generate the chart.

1. In the data model SQL query for the report, use the TO\_CHAR method on the date/time fields to change the data type of the field from `Date` to `String`.
2. Open the report in the Layout Editor.
3. Select the chart and expand the Properties pane.
4. Turn off the **Time Series** setting and clear the settings for Day, Month, Year, and Time formats.

5. Save the layout changes.

## BI Publisher Displays PDF File Error Message when Printing with ScheduleService Web Service

When you use the ScheduleService web service in BI Publisher to print a document as PDF, you might see an error message such as `Document is not a PDF File`.

This issue occurs only if you've configured the PDFtoPostScript filter to print the file to a Postscript printer. After converting a PDF file into a Postscript file, BI Publisher doesn't change the content type from `application-pdf` to `application/octet-stream` in the web service.

To work around this issue, set the *contentType* to `application/octet-stream` in the `DeliveryRequest` parameter of the web service.

## Oracle Business Intelligence Documentation Errata

This section describes issues and workarounds for Oracle BI Documentation.

### Topics

- [Some Documentation for Oracle BI Publisher and Oracle BI Enterprise Edition Is No Longer Being Updated](#)
- [System Requirements and Specifications Guide Needs Update for Required Packages for IBM AIX Operating System](#)
- [Oracle BI Administration Tool Documentation](#)
- [Developer's Guide for Oracle Business Intelligence Enterprise Edition](#)
- [Integrator's Guide for Oracle Business Intelligence Enterprise Edition](#)
- [Scheduling Jobs Guide for Oracle Business Intelligence Enterprise Edition](#)
- [XML Schema Reference for Oracle Business Intelligence Enterprise Edition](#)
- [Developer's Guide for Oracle Business Intelligence Publisher](#)

### Some Documentation for Oracle BI Publisher and Oracle BI Enterprise Edition Is No Longer Being Updated

This issue addresses documentation for Oracle BI Publisher and Oracle BI Enterprise Edition that is no longer updated.

The following documentation is no longer being updated within the guides themselves. See this and future Release Notes for updates to these documents:

- Developer's Guide for Oracle Business Intelligence Enterprise Edition
- Integrator's Guide for Oracle Business Intelligence Enterprise Edition
- Scheduling Jobs Guide for Oracle Business Intelligence Enterprise Edition

- XML Schema Reference for Oracle Business Intelligence Enterprise Edition
- Oracle Fusion Middleware User's Guide for Oracle Business Intelligence Mobile Application Designer
- Developer's Guide for Oracle Business Intelligence Publisher

## System Requirements and Specifications Guide Needs Update for Required Packages for IBM AIX Operating System

*Oracle Fusion Middleware System Requirements and Specifications Guide* includes a section on requirements for the IBM AIX operating system.

That section includes a table with a row for version 7.1 (Update 1). In that row, the values:

- xIC.aix61.rte (version 12.1.0.1+)
- xIC.rte (version 12.1.0.1+)

must be replaced with

- xIC.aix61.rte (version 13.1.0.1+)
- xIC.rte (version 13.1.0.1+)

## Oracle BI Administration Tool Documentation

The following issues address documentation for Oracle BI Administration Tool

- [Online Help for Oracle BI Administration Tool Is No Longer Updated](#)

### Online Help for Oracle BI Administration Tool Is No Longer Updated

The Oracle BI Administration Tool online help is no longer being updated.

Refer to About the Oracle BI Administration Tool in *Metadata Repository Builder's Guide for Oracle Business Intelligence Enterprise Edition* for current information about current functionality in the Oracle BI Administration Tool, and the Release Notes for documentation updates.

### Correction to Help Topic in New Features Section

The Help topic New Command Line Utilities in the section New Features for Oracle BI EE 12c Release (12.2.1) contains two duplicate entries.

The commands `Delete Application Role Command` and `Rename Application Role Command` should only be listed once each.

## Developer's Guide for Oracle Business Intelligence Enterprise Edition

The following issues address the *Developer's Guide for Oracle Business Intelligence Enterprise Edition*.

- [Documentation About Creating and Using Impersonate User is Incorrect](#)

## Documentation About Creating and Using Impersonate User is Incorrect

In *Developer's Guide for Oracle Business Intelligence Enterprise Edition*, Chapter 1 Embedding Business Intelligence Objects in ADF Applications, the How to Create and Use Impersonate User section is inaccurate.

You must use the following procedure instead:

Configuring the Impersonate User in Oracle Business Intelligence 12c  
The 11g `oracle.bi.server.impersonateUser` permission does not exist in 12c. To create a user or application role with permission to impersonate, you must create a permission grant using the Resource Type `oracle.bi.user`, with a name of an asterisk (\*) and an action of `impersonate`.

### Note:

You can choose to grant the newly created permission to either an application role or a user. In this example we choose user.

1. Connect to Fusion Middleware Control for your Oracle BI EE instance using an administration account.
2. From the **Weblogic Domain** menu, select **Security**.
3. Click **Application Policies**.
4. Click **Create** to display the Create Application Grant page.
5. In the **Permissions** section, click **Add (+)**.
6. Select **Resource Types**.
7. Select `oracle.bi.user` from the **Resource Type** list.
8. Click **Continue** to display the Add Permission dialog.
9. Enter an asterisk (\*) in the **Resource Name** field.
10. Select **impersonate** in the Permission Actions section.
11. Click **Select**.  
You now add a new grantee.
12. In the Grantee section click **Add (+)** to display the Add Principal dialog.
13. Select **User** from the drop down list.
14. Select **Includes** from the **Principal Name** list, and enter an asterisk (\*) into the field.
15. Click the search arrow icon (>) to display a list of users.
16. Select the user you want to give the permission to and click **OK**.

This example uses `weblogic`.

17. Click **OK** on the Create Application Grant page.

This gives the impersonate permission to the user.

## Integrator's Guide for Oracle Business Intelligence Enterprise Edition

The following issues address *Integrator's Guide for Oracle Business Intelligence Enterprise Edition*.

- [Documentation Is Incorrect About Which WSDL Version to Use](#)
- [Documentation Mentions of Catalog Groups Are No Longer Applicable](#)
- [Integrator's Guide for Oracle Business Intelligence Enterprise Edition Requires Updates](#)
- [Updating authenticationschemas.xml Needs Additional Statement](#)
- [Documentation About Setting up E-Business Suite Authentication](#)
- [Integrating with Oracle E-Business Suite Security Chapter Requires Updates](#)

### Documentation Is Incorrect About Which WSDL Version to Use

In *Integrator's Guide for Oracle Business Intelligence Enterprise Edition*, Chapter 1 Introduction to Oracle Business Intelligence Web Services, the What are the Oracle Business Intelligence Session-Based Web Services? section requires updates.

The last paragraph suggests that depending on your client version, you access the WSDL document using one of the following Oracle BI EE web services URLs:

```
http://host:port/analytics-ws/saw.dll/wsdl/v6
```

```
http://host:port/analytics-ws/saw.dll/wsdl/v7
```

This paragraph should not mention v6 or v7, but should state that for Oracle BI EE 12c, if you want to develop new code or recompile existing code, you should use version 12 (or later) of the Oracle BI EE web services URL. For example:

```
http://host:port/analytics-ws/saw.dll/wsdl/v12
```

### Documentation Mentions of Catalog Groups Are No Longer Applicable

Starting with Release 12c (12.2.1.1.0), catalog groups have been removed.

*Scheduling Jobs Guide for Oracle Business Intelligence Enterprise Edition* and *Integrator's Guide for Oracle Business Intelligence Enterprise Edition* mention catalog groups. The mentions of catalog groups in these guides are no longer applicable.

In particular, the following methods are deprecated for Oracle BI releases 12.2.1.2.0, 12.2.1.3.0, and 12.2.1.4.0:

Method	Section	Purpose	Deprecated Result
getGroups ()	3.13.6 of <i>Integrator's Guide for Oracle Business Intelligence Enterprise Edition</i>	Gets a list of catalog groups that are members of the account (for example, user or group).	Returns a response such as "getGroups operation is not supported/ deprecated".
getMembers ()	3.13.7 of <i>Integrator's Guide for Oracle Business Intelligence Enterprise Edition</i>	Gets direct members of the catalog group.	Returns a response such as "getMembers operation is not supported/ deprecated".

## Integrator's Guide for Oracle Business Intelligence Enterprise Edition Requires Updates

This section addresses updates to portions of *Integrator's Guide for Oracle Business Intelligence Enterprise Edition*, which is no longer being updated.

### Section 5.3 - Configuring the Action Framework

The statement preceding Table 5.3 currently states:

The Oracle BI EE installation contains a configuration file named ActionFrameworkConfig.xml. You manually edit this configuration file to specify how you want the Action Framework to behave. This configuration file is located by default in the following location:

```
<Oracle Middleware
Home>\user_projects\domains\bifoundation_domain\config\fmwconfig\biinstances\coreapplication
```

This is an error. The configuration file is located by default in the following location:

```
<Oracle Middleware
Home>\user_projects\domains\bi\config\fmwconfig\biconfig\actions
```

In Oracle BI EE, you use scripts to configure the Action Framework. See Configure for Actions with the Action Framework.

### Section - 9.2.3 Updating instanceconfig.xml

Step 2 of this procedure currently states that the instanceconfig.xml file is here:

```
ORACLE_INSTANCE/config/OracleBIPresentationServicesComponent/coreapplication_obipsn.
```

In 12c, the instanceconfig.xml file is here: BI\_DOMAIN/config/fmwconfig/biconfig/OBIPS

In , use the System Settings page (in Console) to set some of the most common system settings. See Configure Advanced System Settings in the Console.

### Section - 9.3.6 Setting Up a Profile

Step 5 of this procedure currently states:

5. On the resulting screen, under Responsibility, enter the Oracle BI EE URL. For example:

```
http://my_server.domain.com:port/analytics
```

This is an error. The `/analytics` portion of this path should be left out.

Step 5 of this procedure should state:

5. On the resulting screen, under Responsibility, enter the Oracle BI EE URL. For example:

```
http://my_server.domain.com:port
```

## Section 9.3.7 - Navigating from E-Business Suite to Oracle Business Intelligence

Step 4 of this procedure currently states:

4. In the Menu field, select the menu that you created in Section 9.3.3, *Creating a Menu That Invokes the Form Function* (for example, OBIEE).

The Form Function is invoked that links to Oracle BI EE.

Step 4 of this procedure should state:

4. In the Menu field, select the menu that you created in Section 9.3.3, *Creating a Menu That Invokes the Form Function* (for example, OBIEE).

This launches Oracle BI EE.

## Updating authenticationschemas.xml Needs Additional Statement

In *Integrator's Guide for Oracle Business Intelligence Enterprise Edition*, Chapter 10 Integrating with Oracle E-Business Suite Security, the Updating authenticationschemas.xml section is incorrect for Oracle BI EE Release 12.2.1 or later.

The following statement must be added between Step 4 and Step 5:

Locate the sub-element `RequestVariable source="constant"` and change the value of the `nameInSource` attribute from `ssi` to the name of the service instance created during domain configuration. If not chosen explicitly, the default value is `ssi`. For example:

```
<RequestVariable source="constant" type="auth" nameInSource="ssi"
biVariableName="NQ_SESSION.SERVICEINSTANCEKEY" />
```

If the entry doesn't already exist, then add a new entry under:

```
<AuthenticationSchema name="EBS-ICX">
```

## Documentation About Setting up E-Business Suite Authentication

In *Integrator's Guide for Oracle Business Intelligence Enterprise Edition*, Chapter 10 Integrating with Oracle E-Business Suite, the Setting Up Authentication section is inaccurate.

Using session variables in initialization blocks for authentication in the E-Business Suite environment integrated with Oracle Business Intelligence, lightweight single sign-on (SSO) does not work in release 12.2.1.4.0. Lightweight SSO is enabled by default. See Lightweight SSO and Legacy Authentication Options in *Security Guide for Oracle Business Intelligence Enterprise Edition*.

You must disable lightweight SSO to continue to use session variables in initialization blocks for authentication. You should disable lightweight SSO using the `disableBISingleSignOn` command. See Enabling and Disabling SSO Authentication Using WLST Commands in *Security Guide for Oracle Business Intelligence Enterprise Edition*.

If you must use SSO, there are other options available.

## Integrating with Oracle E-Business Suite Security Chapter Requires Updates

In *Integrator's Guide for Oracle Business Intelligence Enterprise Edition*, Chapter 9 Integrating with Oracle E-Business Suite Security, describes how to set up Oracle Business Intelligence to use Oracle E-Business Suite security.

Some of the information in that chapter is no longer accurate and has been replaced with information in the [My Oracle Support](#) Note entitled "Integrating OBIEE 12c with Oracle E-Business Suite (EBS) Security" ([Doc ID 2174747.1](#)). See the Support Note for details on setting up Oracle Business Intelligence to use Oracle E-Business Suite security.

## Scheduling Jobs Guide for Oracle Business Intelligence Enterprise Edition

The following issues address *Scheduling Jobs Guide for Oracle Business Intelligence Enterprise Edition*.

- [Documentation Mentions of Catalog Groups Are No Longer Applicable](#)
- [Documentation About Impersonation Requires Update](#)

## Documentation Mentions of Catalog Groups Are No Longer Applicable

Starting with Release 12c (12.2.1.1.0), catalog groups have been removed.

*Scheduling Jobs Guide for Oracle Business Intelligence Enterprise Edition* and *Integrator's Guide for Oracle Business Intelligence Enterprise Edition* mention catalog groups. The mentions of catalog groups in these guides are no longer applicable.

In particular, the following methods are deprecated for Oracle BI releases 12.2.1.2.0, 12.2.1.3.0, and 12.2.1.4.0:

Method	Section	Purpose	Deprecated Result
<code>getGroups()</code>	3.13.6 of <i>Integrator's Guide for Oracle Business Intelligence Enterprise Edition</i>	Gets a list of catalog groups that are members of the account (for example, user or group).	Returns a response such as "getGroups operation is not supported/deprecated".
<code>getMembers()</code>	3.13.7 of <i>Integrator's Guide for Oracle Business Intelligence Enterprise Edition</i>	Gets direct members of the catalog group.	Returns a response such as "getMembers operation is not supported/deprecated".

## Documentation About Impersonation Requires Update

*Scheduling Jobs Guide for Oracle Business Intelligence Enterprise Edition*, which is no longer being updated, requires an update.

*Scheduling Jobs Guide for Oracle Business Intelligence Enterprise Edition* is not clear regarding passwords and impersonation. When impersonation is required, don't provide a password.

## XML Schema Reference for Oracle Business Intelligence Enterprise Edition

The following issues address *XML Schema Reference for Oracle Business Intelligence Enterprise Edition*.

- [Clarification about RefObject Element](#)

### Clarification about RefObject Element

*XML Schema Reference for Oracle Business Intelligence* includes various examples of the RefObject element.

When including this element, ensure that you include both the `id` attribute and the `qualifiedName` attribute, even if the `id` attribute is absent from certain examples in the guide. If you omit the `id` attribute, then you might see a message that reads similar to `could not resolve object error`.

## Developer's Guide for Oracle Business Intelligence Publisher

The following issues address *Developer's Guide for Oracle Business Intelligence Publisher*.

- [Publisher Uses Apache CXF](#)
- [String JDBCDriverType Field Description Is Incorrect](#)
- [Values for the Status Field for JobOutput and JobOutputDelivery Objects](#)
- [The Definition of getScheduledJobInfo Method is Inconsistent](#)
- [SFTP\\_HOSTKEY\\_FINGERPRINT Property for Secure FTP Document Delivery](#)
- [Layout Editor in BI Publisher Doesn't Support Custom JavaScript Plug-Ins](#)
- [Excel Output Format Value is Incorrect for the attributeFormat Field of ReportRequest](#)
- [ScheduleRequest Data Types Missing from Developer's Guide for Oracle Business Intelligence Publisher](#)
- [downloadReportDataChunk Chunk Size Is In Bytes Not In Kilobytes](#)
- [PDF Merger Documentation](#)
- [Locale Parameter Description Missing in downloadXLIFF\(\) Method](#)
- [Incorrect Parameter Description For resendScheduledReport\(\) and resendScheduledReportInSession\(\) Methods](#)
- [#unique\\_69](#)

## Adding Web Center Content as a Delivery Channel

The following issues address corrections to *Developer's Guide for Oracle Business Intelligence Publisher*.

In the Data Types in Oracle BI Publisher Web Services chapter, the following updates are required.

### Add a New Data Type For Delivering Web Center Content

After section FTPDeliveryOption, add a new section called 2.3.27 WCCDeliveryOption.

Use the following two paragraphs as the description, then add the following table:

"Use this data type to define the options to set for WCC delivery of a report. The WCC server must be set up in the BI Publisher Administration pages first. To set up an WCC server see Setting Up Delivery Destinations in *Developer's Guide for Oracle Business Intelligence Publisher*.

"This type is used in the ArrayOfWCCDeliveryOption complex data type."

Field	Description
String WCCAccount	Optional. Select an account from the WebContent Server.
String WCCAuthor	Optional. Enter the name of the author. If you don't specify an author, then the value defaults to the login name of the user.
String WCCComments	Optional. Enter comments to include with the document on the WebContent Server.

Field	Description
String WCCFileName	Required. Enter the name to assign to the file on the server. For example: <code>report.pdf</code> .
Boolean WCCIncludeMetadata	Required. Specify <b>True</b> to allow custom metadata to be sent with the document. Custom metadata is defined in the data model.
String WCCSecurityGroup	Required. Select the security group on the WebContent Server to assign to the report.
String WCCServerName	Required. Enter the name of the WebContent Server as defined in the BI Publisher Administration page.
String WCCTitle	Optional. Enter a title for the report. If you don't enter a title, then the Layout name is used as the title.

## Add a New Section Called ArrayOfWCCDeliveryOption

After ArrayOfFTPDeliveryOption, add a new section called 2.3.5 ArrayOfWCCDeliveryOption.

Use the following description and table:

"Use this data type to hold an array of WCCDeliveryOption objects."

Field	Description
WCCDeliveryOption [] item	See Section 2.3.27 WCCDeliveryOption

## Add Row For Delivering Web Center Content

In DeliveryChannels, add a row to Table 2-22 Fields Provided by DeliveryChannels, after the row "ArrayOfFTPDeliveryOption ftpOptions" using the details shown in the following table. The description should cross reference to the new section 2.3.5 ArrayOfWCCDeliveryOption:

Field	Description
ArrayOfWCCDeliveryOption wccOptions	See Section 2.3.5 ArrayOfWCCDeliveryOption

## String JDBCDriverType Field Description Is Incorrect

In *Developer's Guide for Oracle Business Intelligence Publisher*, Chapter 2 Data Types in Oracle BI Publisher, the JDBCDataSource section contains an incorrect description of the String JDBCDriverType field.

The correct description of the String JDBCDriverType field is:

The driver type as String can be either jdbc or jndi.

## Values for the Status Field for JobOutput and JobOutputDelivery Objects

The values that are indicated for the **status** field of JobOutput and JobOutputDelivery objects in Chapter 2 are incorrect in *Developer's Guide for Oracle Business Intelligence Publisher*.

The correct list of status values that are available through the getAllScheduledReportHistoryReturn web service are as follows.

JobOutput status values:

- STATUS\_RUNNING = 'R';
- STATUS\_SUCCESS = 'S';
- STATUS\_FAILED = 'F';
- STATUS\_CANCELLING = 'G';
- STATUS\_CANCELED = 'C';
- STATUS\_WITH\_DELIVERY\_ERROR = 'D';
- STATUS\_SKIPPED = 'K';
- STATUS\_WARNING = 'I';
- STATUS\_UNKNOWN = 'X';

JobOutputDelivery status values:

- STATUS\_FAILED = 'F';
- STATUS\_WARNING = 'I';
- STATUS\_UNKNOWN = 'X';
- STATUS\_RUNNING = 'R';
- STATUS\_SUCCESS = 'S';

## The Definition of getScheduledJobInfo Method is Inconsistent

In *Developer's Guide for Oracle Business Intelligence Publisher*, Chapter 3 ScheduleService, the getScheduledJobInfo() Method section requires updates. The signature incorrectly references the JobInfo object.

The JobInfo object is currently referenced as follows:

```
JobInfo getScheduledJobInfo(int jobInstanceID, String userID, String password);
```

The signature should instead reference the JobDetail object as follows:

```
JobDetail getScheduledJobInfo(int jobInstanceID, String userID, String password);
```

## SFTP\_HOSTKEY\_FINGERPRINT Property for Secure FTP Document Delivery

In *Developer's Guide for Oracle Business Intelligence Publisher*, Chapter 8 Using the Delivery Manager Java APIs, Table 8–8 Properties for Delivering Documents over SFTP is missing information about the SFTP\_HOSTKEY\_FINGERPRINT property. See the following section for the correct information.

## SFTP\_HOSTKEY\_FINGERPRINT

Enter the MD5 fingerprint of the SSH host key in a hexadecimal string. Don't include a delimiter such as a colon (:) to separate each byte. This property is optional.

When this property is set, the MD5 fingerprint of the host key retrieved from the server at runtime is verified to match the supplied value. If it doesn't match, then the connection is terminated as the fingerprint mismatch indicates that the SSH client is connecting to an unintended host, possibly as a result of a man-in-the-middle attack. When this property isn't set, the connection to the host is made without host key fingerprint verification.

## Supported Configuration File Properties and Elements

`<hostKeyFingerprint>` element is supported for `<server type="sftp">`

## Layout Editor in BI Publisher Doesn't Support Custom JavaScript Plug-Ins

In *Developer's Guide for Oracle Business Intelligence Publisher*, Chapter 11 Adding Extensions to the Layout Editor mentions that you can add JavaScript plug-in extensions to the Layout Editor.

The Layout Editor doesn't support custom JavaScript plug-ins. This issue has no workaround.

## Excel Output Format Value is Incorrect for the attributeFormat Field of ReportRequest

In *Developer's Guide for Oracle Business Intelligence Publisher*, Chapter 2 Data Types in Oracle BI Publisher Web Services, the Complex Data Types section contains an incorrect Excel output format value for the **attributeFormat** field of the `ReportRequest` data type.

The Values for **attributeFormat** sub-section incorrectly mentions Excel (\*.xlsx) instead of Excel (\*.xlsx) as the output format value for the **attributeFormat** field.

## ScheduleRequest Data Types Missing from Developer's Guide for Oracle Business Intelligence Publisher

In *Developer's Guide for Oracle Business Intelligence Publisher*, Chapter 2 Data Types in Oracle BI Publisher Web Services, the following field descriptions of the `ScheduleRequest` data type are missing.

Field	Description
<b>boolean notifyHttpWhenSkipped</b>	Optional. Specify true to send an HTTP notification when a job is skipped. Default is <code>false</code> .
<b>boolean notifyWhenSkipped</b>	Optional. Specify true to send an email notification when a job is skipped. Default is <code>false</code> .
<b>boolean saveOutputOption</b>	Optional. Specify true to save the report output generated by the scheduled request to a database. Default is <code>false</code> .
<b>boolean scheduleBurstingOption</b>	Optional. Specify true to enable bursting for the scheduled job. Default is <code>false</code> .

## downloadReportDataChunk Chunk Size Is In Bytes Not In Kilobytes

In *Developer's Guide for Oracle Business Intelligence Publisher*, Chapter 4 ReportService, the topic for the `downloadReportDataChunk()` method contains an incorrect description of the `int` size field.

The correct description of the `int` size field is:

`int` size - The size of the file to download (in bytes).

## PDF Merger Documentation

In *Developer's Guide for Oracle Business Intelligence Publisher*, Chapter 7 Using the BI Publisher Java APIs, the PDF Document Merger section is no longer applicable and is replaced with the following text.

### Merging PDF Documents

The PDF Merger class supports merging of multiple documents to create a single PDF document. You can add page numbering, watermarks, or other background images.

### Merging PDF Documents with Input/Output File Names

The following code demonstrates how to merge (concatenate) two PDF documents using physical files to generate a single output document.

#### Input

- PDF\_1 file name (String)
- PDF\_2 file name (String)

#### Output

- PDF file name (String)

## Sample Code for Merging PDF Documents with Input/Output File Names:

```
import java.io.*;
import oracle.xdo.common.pdf.util.PDFMerger;
.
.
.
public static void main(String[] args)
{
    PDFMerger merger = null;

    try
    {
        // Initialize PDFMerger - last argument is PDF file name for
output
        merger = new PDFMerger(new File(args[args.length - 1]));

        // Add PDF documents to merge
        for (int i = 0; i < args.length - 1; i++)
        {
            merger.addDocument(new File(args[i]));
        }
    }
    catch (Exception exc)
    {
        exc.printStackTrace();
    }
    finally
    {
        if (merger != null)
        {
            // Close the merged document
            try
            {
                merger.close();
            }
            catch (Exception exc)
            {
                exc.printStackTrace();
            }
        }
    }
}
```

## Merging PDF Documents with Input/Output Streams

### Input

- PDF Documents (InputStream Array)

### Output

- PDF Document (OutputStream)

### Merging PDF Documents with Input/Output Streams

```
import java.io.*;
import oracle.xdo.common.pdf.util.PDFDocMerger;
.
.
.
    public boolean mergeDocs(InputStream[] inputStreams, OutputStream
outputStream)
    {
        PDFMerger merger = null;

        try
        {
            // Initialize PDFMerger
            merger = new PDFMerger(outputStream);

            // Add input stream one by one
            for (InputStream inputStream : inputStreams)
            {
                merger.addDocument(inputStream);
            }
        }
        catch (Exception exc)
        {
            exc.printStackTrace();
            return false;
        }
        finally
        {
            if (merger != null)
            {
                // Close the merged document
                try
                {
                    merger.close();
                }
                catch (Exception exc)
                {
                    exc.printStackTrace();
                    return false;
                }
            }
        }
    }
}
```

### Merging with Background to Place Page Numbering

The following code demonstrates how to merge two PDF documents using input streams to generate a single merged output stream. You can add page numbers to the PDF.

To merge documents and number pages:

1. Create a background PDF template document that includes a PDF form field in the position that you'd like the page number to appear on the final output PDF document.
2. Name the form field @pagenum @.
3. Enter the number in the field from which to start the page numbering. If you don't enter a value in the field, the start page number defaults to 1.

**Input:**

- PDF Documents (InputStream Array)
- Background PDF Document (InputStream)

**Output:**

- PDF Document (OutputStream)

**Sample Code for Merging PDF Documents with Background to Place Page Numbering**

```
import java.io.*;
import oracle.xdo.common.pdf.util.PDFDocMerger;
.
.
.
public boolean mergeDocs(InputStream[] inputStreams, InputStream
backgroundStream, OutputStream outputStream)
{
    PDFMerger merger = null;

    try
    {
        // Initialize PDFMerger
        merger = new PDFMerger(outputStream);

        // Set Background
        merger.setBackground(backgroundStream);

        // Add input stream one by one
        for (InputStream inputStream : inputStreams)
        {
            merger.addDocument(inputStream);
        }
    }
    catch (Exception exc)
    {
        exc.printStackTrace();
        return false;
    }
}
```

```

finally
{
    if (merger != null)
    {
        // Close the merged document
        try
        {
            merger.close();
        }
        catch (Exception exc)
        {
            exc.printStackTrace();
            return false;
        }
    }
}

return true;
}

```

## Setting a Text or Image Watermark

Some draft documents might require a "DRAFT" watermark in all pages. Other documents might require a background image on the document. The following code sample shows how to use the PDFDocMerger class to set a watermark.

### Setting a Text Watermark

Use the `setTextDefaultWatermark()` method to set a text watermark with the following attributes:

- Text angle (in degrees): 55
- Color: light gray (0.9, 0.9, 0.9)
- Font: Helvetica
- Font Size: 100
- The start position is calculated based on the length of the text

Alternatively, use the `setTextWatermark()` method to set each attribute separately.

Use the `setTextWatermark()` method as follows:

- `setTextWatermark ("Watermark Text", x, y)` - declare the watermark text, and set the x and y coordinates of the start position. In the following example, the watermark text is "Draft" and the coordinates are 200f, 200f.
- `setTextWatermarkAngle (n)` - sets the angle of the watermark text. If this method isn't called, 0 will be used.
- `setTextWatermarkColor (R, G, B)` - sets the RGB color. If this method isn't called, light gray (0.9, 0.9, 0.9) will be used.
- `setTextWatermarkFont ("font name", font size)` - sets the font and size. If you don't call this method, Helvetica, 100 will be used.

The following example shows how to set these properties and then call the PDFDocMerger.

**Input:**

- PDF Documents (InputStream)

**Output:**

- PDF Document (OutputStream)

**Sample Code for Setting a Text Watermark in PDF Documents**

```
import java.io.*;
import oracle.xdo.common.pdf.util.PDFDocMerger;
.
.
.
    public boolean mergeDocs(InputStream[] inputStreams, OutputStream
outputStream)
    {
        PDFMerger merger = null;

        try
        {
            // Initialize PDFMerger
            merger = new PDFMerger(outputStream);

            // You can use setTextDefaultWatermark() without these detailed
setting
            merger.setTextWatermark("DRAFT", 200f, 200f); //set text and
place
            merger.setTextWatermarkAngle(80);           //set angle
            merger.setTextWatermarkColor(1.0f, 0.3f, 0.5f); // set RGB Color

            // Add input stream one by one
            for (InputStream inputStream : inputStreams)
            {
                merger.addDocument(inputStream);
            }
        }
        catch (Exception exc)
        {
            exc.printStackTrace();
            return false;
        }
        finally
        {
            if (merger != null)
            {
                // Close the merged document
                try
                {
                    merger.close();
                }
            }
        }
    }
}
```

```

    }
    catch (Exception exc)
    {
        exc.printStackTrace();
        return false;
    }
}

return true;
}

```

### Setting Image Watermark

An image watermark can be set to cover the entire background of a document, or just to cover a specific area (for example, to display a logo). Specify the placement and size of the image using rectangular coordinates as follows:

```
float[] rct = {LowerLeft X, LowerLeft Y, UpperRight X, UpperRight Y}
```

For example:

```
float[] rct = {100f, 100f, 200f, 200f}
```

The image will be sized to fit the rectangular area defined.

To use the actual image size, without sizing it, define the LowerLeft X and LowerLeft Y positions to define the placement and specify the UpperRight X and UpperRight Y coordinates as -1f. For example:

```
float[] rct = {100f, 100f, -1f, -1f}
```

#### Input:

- PDF Documents (InputStream)
- Image File (InputStream)

#### Output:

- PDF Document (OutputStream)

#### Sample Code for Setting an Image Watermark in PDF Documents

```

import java.io.*;
import oracle.xdo.common.pdf.util.PDFDocMerger;
.
.
.
    public boolean mergeDocs(InputStream[] inputStreams, OutputStream
outputStream, String imagePath)
    {
        PDFMerger merger = null;

        try
        {
            // Initialize PDFMerger
            merger = new PDFMerger(outputStream);

```

```

FileInputStream wmStream = new FileInputStream(imageFilePath);
float[] rct = {100f, 100f, -1f, -1f};
merger.setImageWatermark(wmStream, rct);

// Add input stream one by one
for (InputStream inputStream : inputStreams)
{
    merger.addDocument(inputStream);
}
}
catch (Exception exc)
{
    exc.printStackTrace();
    return false;
}
finally
{
    if (merger != null)
    {
        // Close the merged document
        try
        {
            merger.close();
        }
        catch (Exception exc)
        {
            exc.printStackTrace();
            return false;
        }
    }
}

return true;
}

```

## Locale Parameter Description Missing in downloadXLIFF() Method

In *Developer's Guide for Oracle Business Intelligence Publisher*, Chapter 6 CatalogService, the downloadXLIFF() method doesn't include the description of the locale parameter.

### Corrected Method Signature:

```
byte[] downloadXLIFF(String objectAbsolutePath, String locale, String userID, String password);
```

**Table Corrected Parameters for downloadXLIFF() Method**

Parameter	Description
String objectAbsolutePath	The path to the XLIFF object to download.
String locale	The locale of the XLIFF object (for example, en_US).
String userID	Specifies the BI Publisher user name.
String password	Specifies the password for the user name.

## Incorrect Parameter Description For resendScheduledReport() and resendScheduledReportInSession() Methods

In *Developer's Guide for Oracle Business Intelligence Publisher*, Chapter 3 *ScheduleService*, the description of `outputJobID` parameter isn't correct for `resendScheduledReport()` and `resendScheduledReportInSession()` methods.

For the `outputJobID` parameter, you need to provide the `outputId` generated when you run the job. To get the `outputId` of a specific job, run the `getScheduledReportOutputInfo()` method of *ScheduleService*.

---

Oracle Fusion Middleware Release Notes for Oracle Business Intelligence, 12c (12.2.1.4)  
E91530-10

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