

Oracle® Fusion Middleware

Release Notes for Business Intelligence

Release 12.2.1.1.0

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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.

- [Obtaining 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](#)
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- [Oracle Business Intelligence Documentation Errata](#)

Obtaining Patches from My Oracle Support

Periodically, Oracle Business Intelligence patches are released.

Some patches are mandatory and other patches are optional.

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*.

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](#)
- [Importing Hive Metadata](#)

- [Initialization Block for E-Business Suite Displays NQS Error Message](#)
- [Integration with and Migration from Oracle BI Discoverer Is Not Supported](#)
- [Oracle BI Publisher Not Certified with Edge Browser](#)
- [BI Cluster Fails to Start After Domain Configuration](#)
- [May Need to Add New Privileges After Upgrade from a Release Earlier than 12.2.1.1.0](#)

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.

Importing Hive Metadata

When importing the metadata from a Hive data source, the import fails to list tables in the Oracle BI Administration Tool's Data Source View.

There is no workaround in the Oracle BI Administration Tool.

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.

Oracle BI Publisher Not Certified with Edge Browser

Oracle BI Publisher 12.2.1.1.0 is not certified with Microsoft Edge Browser.

BI Cluster Fails to Start After Domain Configuration

If the Oracle BI system is configured in an Internet Protocol v6 (IPv6) environment in which Internet Protocol v4 (IPv4) is disabled, then all services will start properly.

However, when you log into Oracle Enterprise Manager, the BI Cluster appears to be down. If you try to manually start the BI Cluster, it fails and you see an error message that `bi_server1` is running.

To work around the issue:

1. Open the Oracle Enterprise Manager Console.
2. Click **Servers**, then select the `bi_server1` row.
3. Click **Control**.
4. Click **Shutdown** and select **Force Shutdown Now**.
5. Click **Clusters**, then select the `bi_cluster1` row.
6. Click **Control**, then select **Start**.

Both `bi_cluster1` and `bi_server1` start.

May Need to Add New Privileges After Upgrade from a Release Earlier than 12.2.1.1.0

The View Delivers Full privilege was introduced in Release 12.2.1.1.0 to control visibility of Delivers options for agents. The privilege is assigned to the BIAuthor role by default.

You might not be able to edit or create agents after an upgrade from a release earlier than 12.2.1.1.0. For example, after an upgrade, you might have the Create Agent privilege, but not the View Delivers Full privilege, which is needed to see the functionality for creating and editing agents. To work around this issue, add the missing View Delivers Full privilege to users or application roles, so that they can see the user interface controls needed to create and edit agents.

Oracle Data Visualization Issues and Workarounds

This section describes issues and workarounds for Oracle Data Visualization.

Topics

- [Dragging a Data Element to a Canvas that Contains Other Elements Causes an Error in Asian Languages](#)
- [Map Visualizations Sometimes Show Incorrect Geography in Asian Languages](#)
- [Bidirectional Languages Aren't Supported](#)
- [Cannot Save Database Connection Information Containing Multibyte Characters](#)
- [Importing Data Sources with Multibyte Characters Causes Error](#)
- [DNS Connection Required to Use Teradata with Oracle Business Intelligence Visual Analyzer in 12.2.1.1.0](#)
- [Error Importing XLSX Files Generated from Microsoft Access](#)
- [Importing a Table from an Oracle Database](#)

Dragging a Data Element to a Canvas that Contains Other Elements Causes an Error in Asian Languages

An error occurs if you are using Asian language data sources (for example, Japanese or Chinese) and are working in a canvas that already contains data elements and you try to drag a data element to a blank area of the canvas.

To prevent this error, be sure to drag the element directly to a specific drop target such as Rows, Columns, Values, Color, Size, or Shape.

Map Visualizations Sometimes Show Incorrect Geography in Asian Languages

If you are using Asian language data sources (for example, Japanese or Chinese), then map visualizations sometimes don't correctly identify countries, states, or provinces.

For example, if you upload a Microsoft Excel file containing data about China and Japan, and you change the chart to a map, then China might not be highlighted correctly on the map.

Bidirectional Languages Aren't Supported

Oracle Business Intelligence Visual Analyzer currently doesn't support bidirectional languages (for example, Arabic and Hebrew).

There is no workaround for this issue.

Cannot Save Database Connection Information Containing Multibyte Characters

Oracle Business Intelligence Visual Analyzer currently doesn't save database connections containing multibyte characters (for example, database names in languages such as Chinese, Korean, and Japanese).

When you try to save such a connection, the system displays a generic error message stating that the connection save has failed, but offers no specific information why the save has failed.

There is no workaround for this issue.

Importing Data Sources with Multibyte Characters Causes Error

Oracle Business Intelligence Visual Analyzer currently doesn't support importing data sources containing multibyte characters.

If you try to import a data source that contains multibyte characters (for example, data sources in languages such as Chinese, Korean, or Japanese), the system displays the following error message:

```
Failed to create external datasets. Cannot create a new source.
The Analysis selected contains errors. Fix the errors or select
a different Analysis.
```

There is no workaround for this issue.

DNS Connection Required to Use Teradata with Oracle Business Intelligence Visual Analyzer in 12.2.1.1.0

To properly configure the DataDirect driver for Teradata and the Teradata ODBC driver for Oracle Business Intelligence Visual Analyzer in Oracle BI EE 12.2.1.1.0, you must use a DNS connection.

The Linux x64 environment Teradata ODBC driver version 14.10 needs to be configured from within the Oracle BI EE environment. The DataDirect driver for Teradata is compatible with Teradata ODBC driver version 14.10 only, not Teradata ODBC driver version 15 or 15.10.

To configure the driver:

1. Install Teradata ODBC driver 14.10.
2. Configure the path `/opt/teradata/teragss/linux-x8664/14.10.07.01/lib` within `LD_LIBRARY_PATH` of BI server in `$MW_HOME//bi/modules/oracle.bi.cam.obis/env/obis.properties`.

Error Importing XLSX Files Generated from Microsoft Access

Importing an XLSX file generated from Microsoft Access can sometimes fail.

Oracle Business Intelligence Visual Analyzer can interpret XLSX files imported from Microsoft Access as header-less or even empty.

To work around this issue:

1. In Microsoft Excel, open the XLSX file that was output from Microsoft Access.
2. Select any cell.
3. Make and undo a change. For example, select the top left cell, type x, then delete the x.
4. Save the file.
5. Import the modified file into Oracle Business Intelligence Visual Analyzer.

The file is imported without error.

Importing a Table from an Oracle Database

When importing a table from an Oracle Database in the 12.2.1.1.0 UNIX environment, that includes Linux, HP-UX, Solaris and AIX, sometimes the measure values are incorrectly shown as zero (0).

The workaround is to use the **AUTO** mode for query when creating the connection in Visual Analyzer, instead of **LIVE** mode to fix the issue.

Oracle Business Intelligence Analyses and Dashboards Issues and Workarounds

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

Topics

- [No search results returned Error Message Displays by Mistake](#)
- [Metadata Dictionary XML Files Must Be Opened in Microsoft Internet Explorer](#)

No search results returned Error Message Displays by Mistake

If you are using the New Home Page view in Oracle BI EE, and you click the Dashboard option to create a new dashboard, the New Dashboard dialog might display the `No search results returned` error message by mistake.

To work around this issue, click **OK** to dismiss the message and continue using the New Dashboard dialog to create a dashboard.

Metadata Dictionary XML Files Must Be Opened in Microsoft Internet Explorer

If you generate a metadata dictionary using a repository, then you must use Microsoft Internet Explorer 9 or later to open the generated XML files.

If you open one of the generated XML files in a different browser (for example, Firefox or Chrome), then the browser displays an error message similar to the following one:

```
Error: XML Parsing Error: not well-formed.  
Location: <File location>\NameIndex.xml  
Line Number 86, Column 276.
```

This issue can also affect how the metadata dictionary is displayed in analyses in Oracle BI EE.

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](#)

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.

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](#)
- [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](#)

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 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/wsd1/v6
```

```
http://host:port/analytics-ws/saw.dll/wsd1/v7
```

This paragraph should not mention v6 or v7, but should say that for Oracle BI EE 12c, if you want to develop new code or recompile existing code, you should use version 11 (or later) of the Oracle BI EE web services URL. For example:

```
http://host:port/analytics-ws/saw.dll/wsd1/v11
```

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.

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

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

The following sections address updates to *Integrator's Guide for Oracle Business Intelligence Enterprise Edition*.

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
```

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
```

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 Business Intelligence 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 Business Intelligence 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 Business Intelligence.

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 Business Intelligence.

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">
```

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.

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*.

- [Adding Web Center Content as a Delivery Channel](#)

- [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](#)
- [PDF Merger Documentation](#)

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 the *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.
String WCCFileName	Required. Enter the name to assign to the file on the server. For example: report .pdf.
Boolean WCCIncludeMetadata	Required. Specify True 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_CANCELING = 'G';
- STATUS_CANCELED = 'C';
- STATUS_WITH_DELIVERY_ERROR = 'D';
- STATUS_SKIPPED = 'K';

- STATUS_WARNING = 'T';
- STATUS_UNKNOWN = 'X';

JobOutputDelivery status values:

- STATUS_FAILED = 'F';
- STATUS_WARNING = 'T';
- 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 does not 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 is not 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">

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.

See [Some Documentation for Oracle BI Publisher and Oracle BI Enterprise Edition Is No Longer Being Updated](#).

Merging PDF Documents

Many business documents are composed of several individual documents that need to be merged into a single final document. The PDF Merger class supports the merging of multiple documents to create a single PDF document. This can then be manipulated further to 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.

1. Create a background PDF template document that includes a PDF form field in the position that you would 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 documents that are in a draft phase require that a watermark indicating "DRAFT" be displayed throughout the document. 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 is not called, 0 will be used.
- `setTextWatermarkColor(R, G, B)` - sets the RGB color. If this method is not called, light gray (0.9, 0.9, 0.9) will be used.
- `setTextWatermarkFont("font name", font size)` - sets the font and size. If you do not 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;
}

```

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