

BIP Web Service Reports
Oracle Banking Trade Finance
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1. Server Setup for Web Service Based BIP Reports

1.1 Introduction

This chapter explains the method to setup the web services based BI Publisher reports server on Oracle Analytics Server v5.5.

1.2 Prerequisites

Before you continue, ensure that Oracle Analytics Server v5.5 on the server machine.

1.3 Deploying BIP Reports

This section guides you through the deployment of Oracle Analytics Server reports. BIP reports deployment involves the following steps:

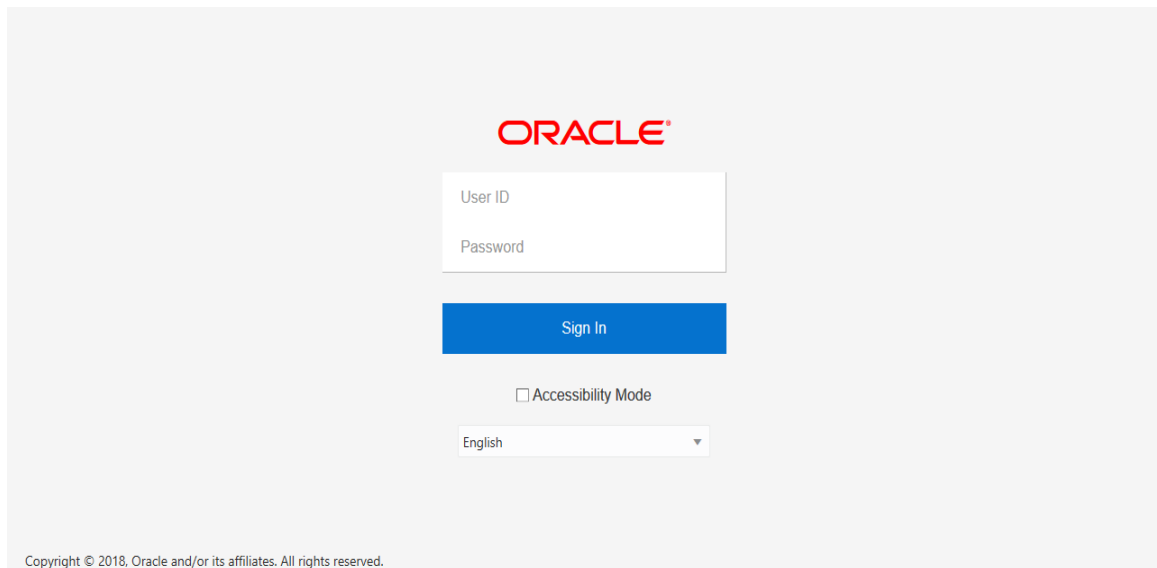
- Setup Oracle Analytics Server
- Setup Oracle Analytics Server Data Source
- Create Oracle Analytics Server FC Reports folder
- Configure Oracle Analytics Server Currency

These steps are explained under the following headings.

1.3.1 Setting up BIP Server

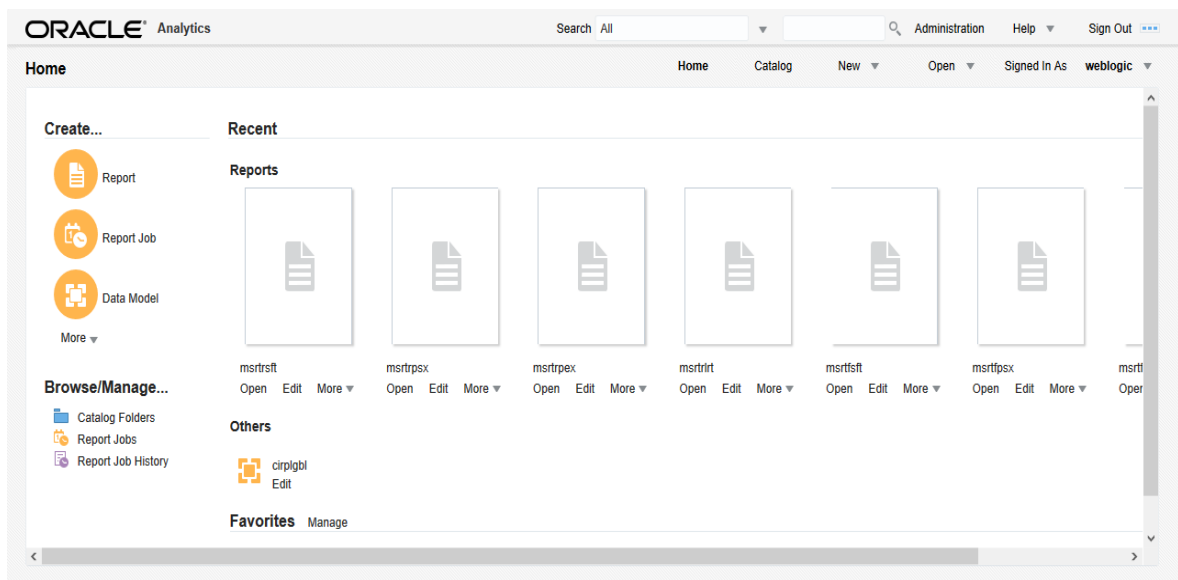
For setting up Oracle Analytics Server, follow the steps below.

1. Go to Oracle Analytics Server Web Server's Administration Console.



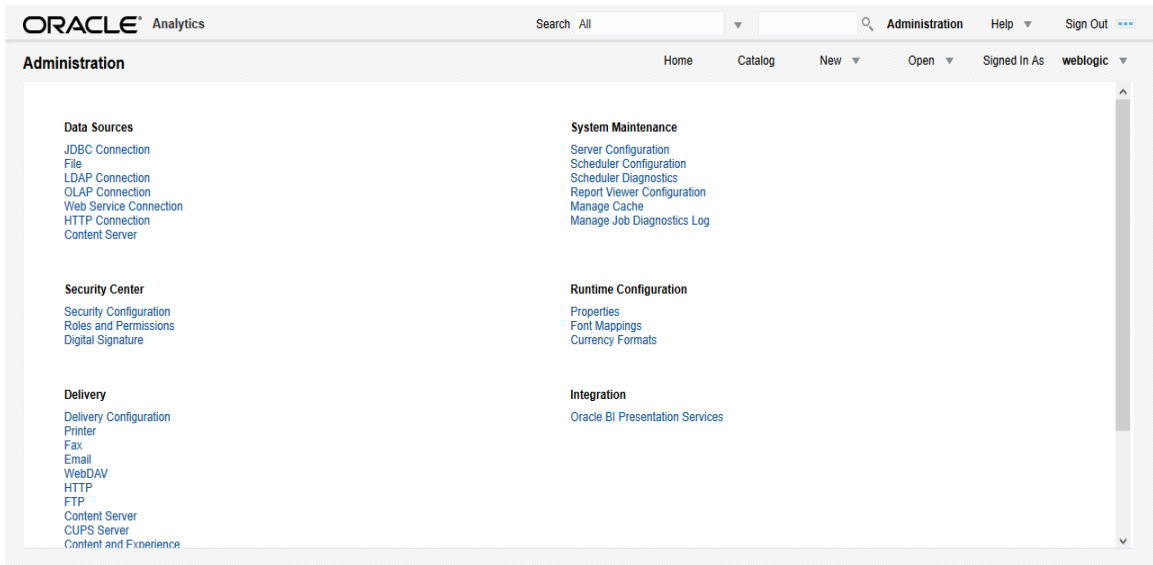
Specify the user name and password and click 'Sign In' button to sign in.

On successful login, the following screen is displayed.



Click the link 'Administration' on the top right of the screen.

The following screen is displayed.



Click 'Server Configuration' under 'System Maintenance'.

The following screen is displayed.

The screenshot shows the Oracle Analytics Administration console with the 'Server Configuration' page selected. The page is titled 'System Maintenance' and includes a 'Server Configuration' link. A tip states: 'Any changes will only take effect after the application is restarted.' The 'Catalog' section contains the following information:

Property	Value
Catalog Type	Oracle BI EE Catalog
Server Version	v7
Connection protocol	TCP
BI Publisher repository	/scratch/app/bipanis55/user_projects/domains/FC144ANALY/bidata/components/bipublisher/repository
BI Search URL	http://whf00cfh.in.oracle.com:9519/bisearch/rest/BIsearchQueryService/search
BI Search Group name	bisearch_ws
BI Search Timeout (millisecond)	6000

The 'General Properties' section includes:

Property	Value
System Temporary Directory	
Report Scalable Threshold	

The 'Caching' section includes:

Property	Value
Cache Expiration (minutes)	
Cache Size Limit	
Maximum Cached Report Definitions	

The 'Database Failover' section includes:

Property	Value
Number of Retries	
Retry Interval (seconds)	

The 'Monitor and Audit' section includes:

☐ Enable Monitor and Audit

The 'Deployment Mode' section includes:

☐ Is Cloud Enabled

Specify the following details:

Cache Expiration (Minutes)

Specify the duration for which the data need to be stored in the cache. You need to specify the duration in terms of minutes.

Cache Size Limit

Specify the maximum size allowed for cache.

Maximum Cached Report Definition

Specify the maximum number of reports that can be stored in cache.



Cache related settings are optional.

Once you have specified the above details, click 'Apply'.

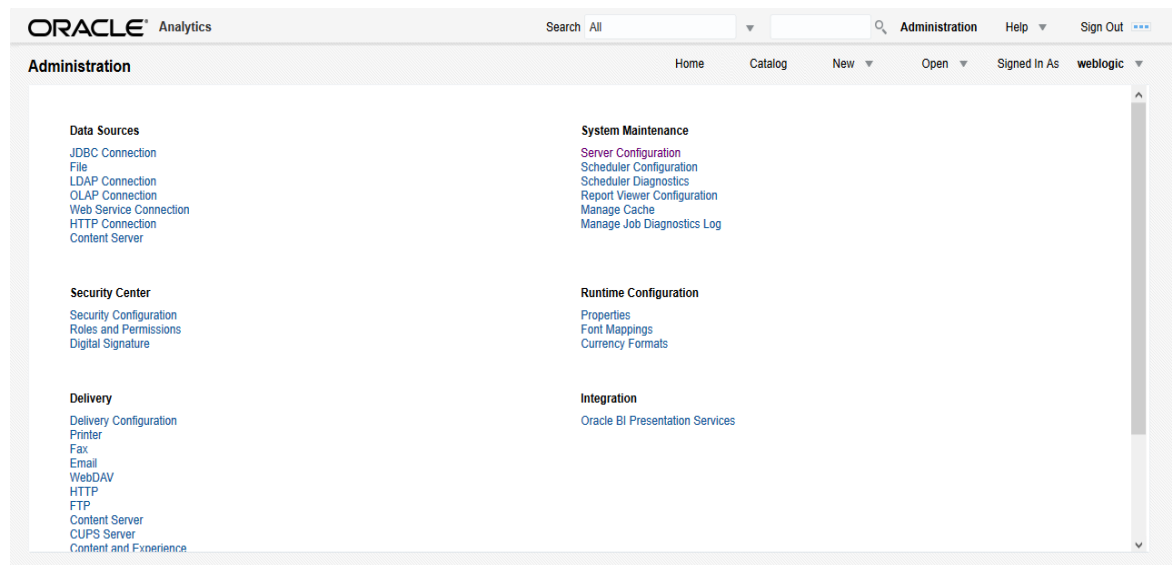
This completes the process of BIP service setup.

1.3.2 Setting Up BIP Data Sources

For setting up Oracle Analytics Server data sources, follow the steps below.

1. Go to Oracle Analytics Server Web Server's Administration Console. Specify the user name and password and click 'Sign In' button to sign in.

Click the link 'Administration' on the top right of the screen. The following screen is displayed.



Click 'JDBC Connection' under 'Data Sources'. The following screen is displayed.

The screenshot shows the Oracle Analytics Administration console. The top navigation bar includes the Oracle Analytics logo, a search bar, and links for Administration, Help, and Sign Out. The main navigation bar has links for Home, Catalog, New, Open, Signed In As, and weblogic. The breadcrumb trail indicates the path: Administration > JDBC. The 'Data Sources' section is active, with tabs for JDBC, File, LDAP, OLAP, Web Services, HTTP, and Content Server. An 'Add Data Source' button is visible. Below it is a table listing existing data sources:

Data Source Name	Connection String	Delete
FCBIP	jdbc:oracle:thin:@// whf00bey.in.oracle.com:1524/FC144IUTPDB	X
FCBIPBPEL	jdbc:oracle:thin:@//whf00cgp.in.oracle.com:1521/ELCM144DEV	X
Oracle BI EE	jdbc:oraclebi://whf00cfh.in.oracle.com:9528/	X

Click 'Add Data Source' button under 'JDBC' tab. The following screen is displayed.

The screenshot shows the 'Add Data Source' configuration page. The breadcrumb trail is Administration > JDBC > Add Data Source. The page has 'Apply' and 'Cancel' buttons. The 'General' section contains the following fields and options:

- Data Source Name:** Text input field.
- Driver Type:** Dropdown menu set to 'Oracle 12c'.
- Database Driver Class:** Text input field with the value 'oracle.jdbc.OracleDriver' and a hint '(example: oracle.jdbc.OracleDriver)'.
- Connection String:** Text input field with the value 'jdbc:oracle:thin:@[host]:[port]:[sid]'.
- Use System User:** Checkbox, currently unchecked.
- Username:** Text input field.
- Password:** Text input field.
- Pre Process Function:** Text input field.
- Post Process Function:** Text input field.
- Client Certificate:** Text input field.
- Use Proxy Authentication:** Checkbox, currently unchecked.
- Test Connection:** Button.

The 'Backup Data Source' section contains the following fields and options:

- Use Backup Data Source:** Checkbox, currently unchecked.
- Connection String:** Text input field.
- Username:** Text input field.
- Password:** Text input field.
- Test Connection:** Button.

The 'Security' section contains the following fields and options:

- Allow Guest Access:** Checkbox, currently unchecked.
- Allowed User:** Text input field.
- Available Roles:** List box containing: Authenticated User, BI Consumer, BI Content Author, BI Data Model Author, BI Service Administrator, DV Consumer, DV Content Author.
- Allowed Roles:** List box (empty).
- Move:** Button.
- Move All:** Button.
- Remove:** Button.
- Remove All:** Button.

Specify the JDBC connection details as shown in the screen.



Ensure that the data source name displayed on the screen is the same as the one provided or 'defaultDataSourceRef' in the function ID specific report xdm files. All the xdm files should have the same defaultDataSourceRef.

Enter the user ID and password and click 'Test Connection' button. On successful connection, you will see a confirmation message on the screen.

Once the connection testing is successful, Click 'Apply' button. This completes the process of BIP data source setup.

1.3.3 Creating BI Publisher 'FCReports' Folder

For creating BI Publisher FC reports folder, follow the steps below.

1. In the shipment media, copy all the files from the following folders to a common location:

- MAIN/<Module>/Datamodels_5.5
- MAIN/<Module>/Reports_5.5

Along with these create a folder called 'Adv' and keep the files under these directories

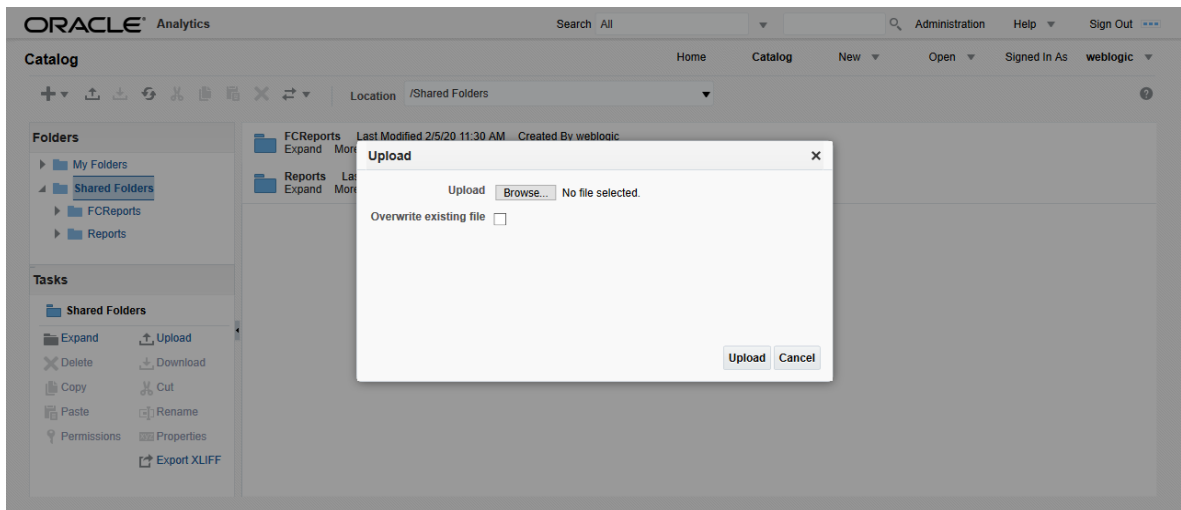
- MAIN/<Module>/Advices_5.5/Datamodels_5.5
- MAIN/<Module>/Advices_5.5/Reports_5.5 (except Branch Module)
- MAIN/<Module>/Advice_5.5/XSD

For example:

Name	Date modified	Type	Size
Adv	9/2/2016 10:54 AM	File folder	
acrdltxn.xdmz	7/27/2016 12:14 PM	XDMZ File	4 KB
acrfcdr.xdmz	7/27/2016 12:14 PM	XDMZ File	3 KB
acrgpbal.xdmz	7/27/2016 12:14 PM	XDMZ File	3 KB
acrjnal.xdmz	7/27/2016 12:14 PM	XDMZ File	4 KB
acrmrevl.xdmz	7/27/2016 12:14 PM	XDMZ File	3 KB
acrpcash.xdmz	7/27/2016 12:14 PM	XDMZ File	4 KB
acrpcshd.xdmz	7/27/2016 12:14 PM	XDMZ File	4 KB
acrpfvbl.xdmz	7/27/2016 12:14 PM	XDMZ File	3 KB
acrpmove.xdmz	7/27/2016 12:14 PM	XDMZ File	4 KB
accreval.xdmz	7/27/2016 12:14 PM	XDMZ File	3 KB
acrstmnt.xdmz	7/27/2016 12:14 PM	XDMZ File	2 KB
acrstmov.xdmz	7/27/2016 12:14 PM	XDMZ File	3 KB
acruncol.xdmz	7/27/2016 12:14 PM	XDMZ File	3 KB
acst_detailed.xdmz	7/27/2016 12:20 PM	XDMZ File	2 KB
additionalcollateralletter.xdmz	8/8/2016 11:06 AM	XDMZ File	4 KB
additionalinformationletter.xdmz	8/8/2016 11:06 AM	XDMZ File	4 KB
advice_cr_instrtn.xdmz	7/27/2016 4:31 PM	XDMZ File	2 KB
amrfndhd.xdmz	7/25/2016 3:41 PM	XDMZ File	3 KB
amrfunbl.xdmz	7/25/2016 3:41 PM	XDMZ File	3 KB
amrnvmv.xdmz	7/25/2016 3:41 PM	XDMZ File	3 KB
ApplicantDependencyAnalysis.xdmz	8/8/2016 12:08 PM	XDMZ File	4 KB
ApplicantOverallAnalysis.xdmz	8/8/2016 12:08 PM	XDMZ File	4 KB
ApprovedIslamicFinancingCreationDeals....	8/8/2016 11:08 AM	XDMZ File	4 KB
ApprovedLoanCreationDeals.xdmz	8/8/2016 12:08 PM	XDMZ File	4 KB
bcrendoc.xdmz	7/26/2016 12:23 PM	XDMZ File	3 KB
bcrmltnr.xdmz	7/26/2016 12:23 PM	XDMZ File	3 KB
bcrobefr.xdmz	7/26/2016 12:23 PM	XDMZ File	3 KB
bcrobtbp.xdmz	7/26/2016 12:23 PM	XDMZ File	4 KB
bcrobuds.xdmz	7/26/2016 12:23 PM	XDMZ File	3 KB
bcrobunp.xdmz	7/26/2016 12:23 PM	XDMZ File	3 KB
bcrodacc.xdmz	7/26/2016 12:23 PM	XDMZ File	3 KB

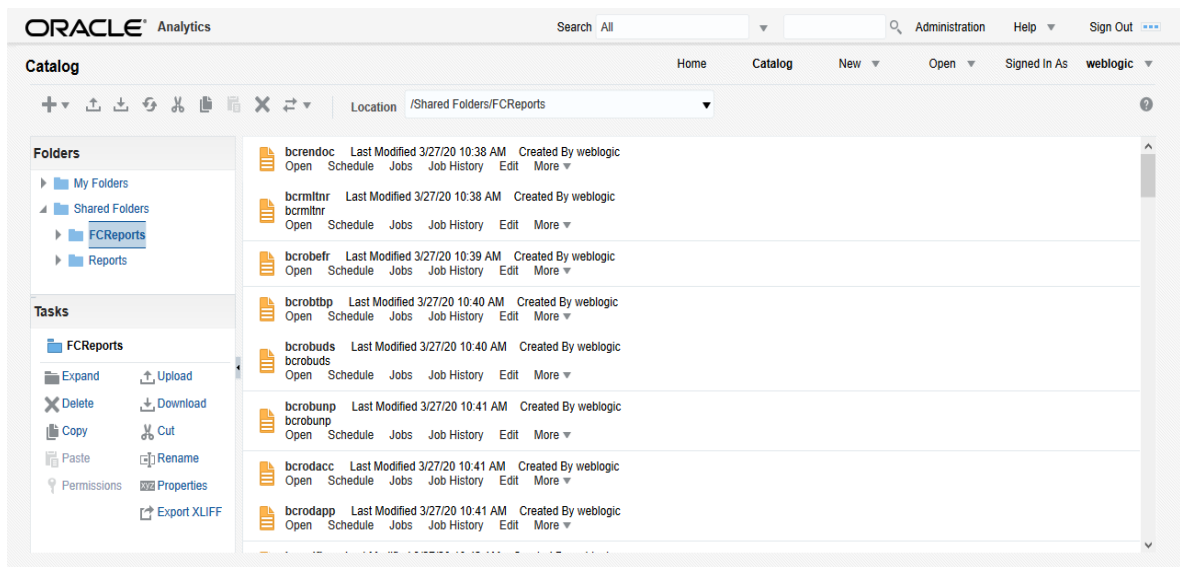
Select all these and zip as FCReports.zip. Then rename this to FCReports.xdrz

Deploy this file as follows.



Click on Shared Folders, under the Tasks tab click on upload button, browse the FCReports.xdrz file and click on upload.

In Oracle Analytics Server v5.5 Enterprise, navigate to 'Shared Folders' and then to 'FCReports' folder. The screen displays the list of all available reports.



In FCUBS properties Advice Type should be set to 'BIP' for displaying Branch Advice in PDF format

This completes the process of 'FCReports' folder creation.

1.3.4 Creating BI Publisher Report Job

1. In the home page, on the left side, click on Report Job and select the report which has to be run.

ORACLE Analytics

Search All

Administration Help Sign Out

Schedule Report Job

Home Catalog New Open Signed In As weblogic

Overview

General Created by weblogic

Report Name

Schedule Start immediately

Outputs Destination Notification

General Output Schedule Notification Diagnostic

Report

Parameters

ORACLE BI Publisher Enterprise

Search All

Administration Help Sign Out

Schedule Report Job

Home Catalog New Open Signed In As infra

Overview

General Created by infra

Report Name

Schedule Start immediately

Outputs Destination Notification

General Output Schedule Notification Diagnostic

Report

Parameters

Open

Catalog

My Folders

Shared Folders

Components

FCReports

Sample Lite

strstfee

strtdper

strvbdta

svracrep

svradrep

svraorep

svrbaccl

svrcabli

Name

strstfee

Description

strstfee

Open Cancel

ORACLE BI Publisher Enterprise

Search All

Administration Help Sign Out

Schedule Report Job

Home Catalog New Open Signed In As infra

Overview

General Created by infra

Report Name /FCReports/strstfee.xdo

Schedule Start immediately

Outputs View bursting definition Destination Notification

General Output Schedule Notification Diagnostic

Report /FCReports/strstfee.xdo

Parameters

2. Click on Output Tab. The options will get defaulted from the report which can be changed, if needed. Use 'Bursting definition to Determine Output & Delivery Destination' – Select this option, this will default the output and destination path as defined in the bursting query of the report.

The screenshot shows the 'Schedule Report Job' configuration page in Oracle Analytics. The 'Output' tab is selected, displaying several checkboxes for output options: 'Use Bursting Definition to Determine Output & Delivery Destination' (unchecked), 'Use XML Data Chunking' (unchecked), 'Make Output Public' (unchecked), 'Save Data for Republishing' (checked), and 'Compress output prior to delivery' (unchecked). Below these is an 'Output' section with a table header: Name, Layout, Format, Locale, Timezone, Calendar, and Save Output. The table currently shows 'No output available'. At the bottom, there is a 'Destination' section with a note 'You can add multiple destinations as you need.' and a 'Destination Type' dropdown menu next to an 'Add Destination' button. The top navigation bar includes 'ORACLE Analytics', a search bar, and links for 'Administration', 'Help', and 'Sign Out'. The user is signed in as 'weblogic'.

3. Click on 'Submit' on then top right, to submit the job. A pop-up message asking job name is displayed. Enter any name in job name and click on 'OK'. Then a confirmation message that job is submitted successfully is displayed.
4. The job will generate the Report output in in destination configured in report.

Submit

Report /FCReports/strstfee.xdo

Parameters

Schedule Start immediately

Output View bursting definition

Notification

Trigger Data Model

Trigger Name

Trigger Retry Limit

Trigger Pause Time

Trigger Parameters

Report Job Name

OK Cancel

From whf00bzq.in.oracle.com:9502

Job "PAD_StatementOfFees" successfully submitted

OK

1.3.5 **Configuring BIP Currency**

You can set configuration for each currency by using one of the following methods.

- Configure using xdo.cfg file
- Configure from Oracle Analytics Server

1.3.5.1 **Configuring Currency using 'xdo.cfg' file**

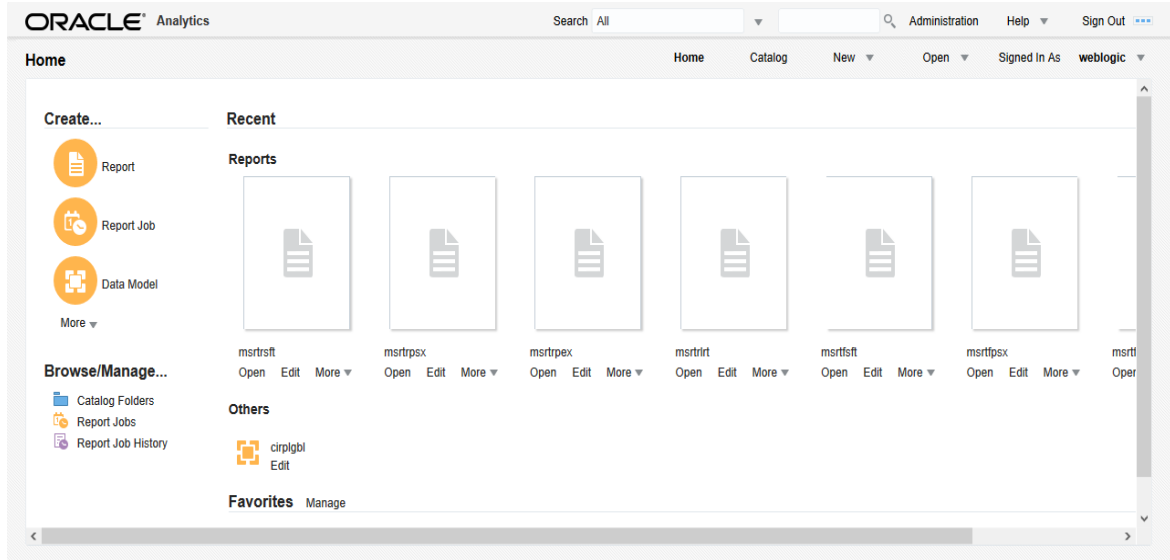
In this method, you need to define the mask for each currency in the 'xdo.cfg' file. Further, place the 'xdo.cfg' file in the folder '<BI Publisher Repository>\Admin\Configuration'.

[Click to view the 'xdo.cfg' file.](#)

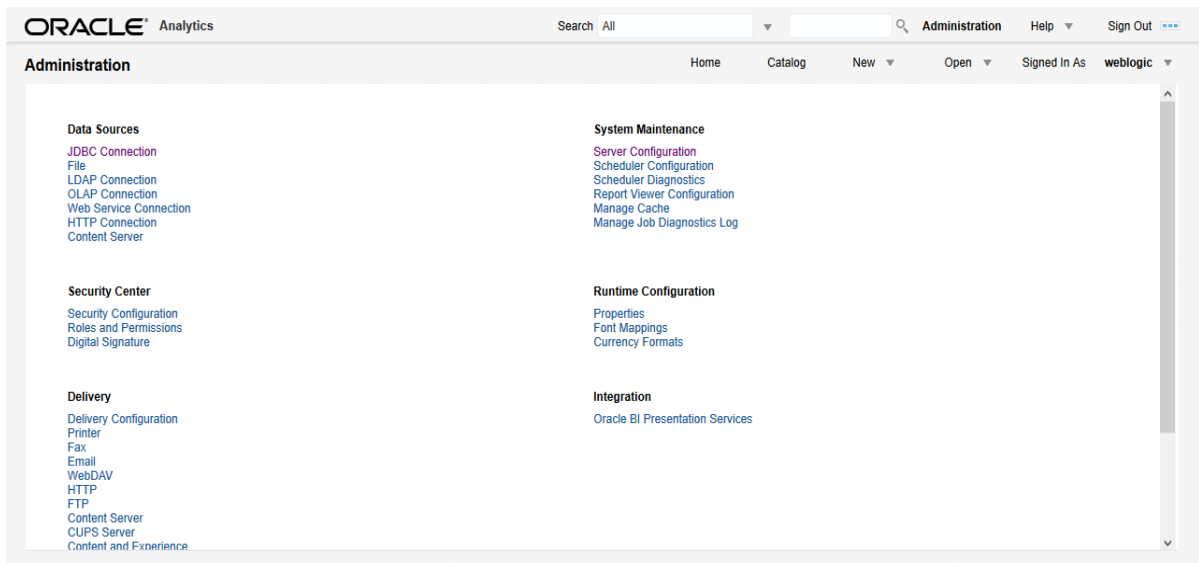
1.3.5.2 **Configuring Currency from BIP Server**

In order to configure the currency from BI Publisher server, follow the steps given below.

1. Go to Oracle Analytics Server Web Server's Administration Console. Specify the user name and password and click 'Sign In' button to sign in. On successful login, the following screen is displayed.



Click the link 'Administration' on the top right of the screen. The following screen is displayed.



Click 'Currency Format' under 'Runtime Configuration'. The following screen is displayed.

ORACLE Analytics

Search All

Administration Help Sign Out

Administration Home Catalog New Open Signed In As weblogic

Administration > Currency Format

Runtime Configuration

Properties Font Mappings Currency Formats

Currency Format

Add Currency Format

Currency Code	Format Mask	Delete

Click 'Add Currency Format' button. The following screen is displayed.

ORACLE Analytics

Search All

Administration Help Sign Out

Administration Home Catalog New Open Signed In As weblogic

Administration > Currency Format > Add Currency Format

Add Currency Format

Apply Cancel

Currency Format

* Currency Code

* Format Mask

Specify the currency code and the format mask. Click 'Apply' button.

Once the changes for all currencies are made, restart the OBIEE server.

This completes the process of currency configuration from BIP server.



BIP Web Service
Reports

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