Oracle® Communications Report Manager

User Guide
Release 7.5

August 2016

Notices

Contents

About This Guide

This document and other product-related documents are described in the Related Documentation table.

Related Documentation

Table 1: Oracle Communications Session Delivery Manager Documentation Library

Document Name	Document Description
Release Notes	Contains information about the administration and software configuration of the Oracle Communications Session Delivery Manager feature support new to this release.
Installation Guide	The Installation guide describes the process to install the Session Delivery Manager including both the typical installation process as well as the custom installation options.
Administration Guide	Contains information about security administration, which lets you create new users and new user groups, and set group-based authorization.
Security Guide	Provides the following security guidelines and topics: • Guidelines for performing a secure installation of Oracle Communications Session Delivery Manager on your server, which includes methods for securing the server, firewall settings, system support for encryption and random number generators (RNG), using HTTPS, and password guidelines. • An overview of the Security Manager features that are used to configure groups, users, operations, privileges, and manage access to the system. • Security maintenance, which includes a checklist to securely deploy Oracle Communications Session Delivery Manager on your network, maintaining security updates, and security considerations for developers.

Table 2: Oracle Communications Session Element Manager Documentation Library

Document Name	Document Description
User Guide	Contains detailed information pertaining to the Session Element Manager application and describes the dashboard summary view, audit log, fault, and performance views.
Web Services SOAP XML Provisioning API Guide	Contains a full description of the individual interface definitions that make up the Application Programming Interface (API).

Table 3: Oracle Communications Report Manager Documentation Library

Document Name	Description
User Guide	Contains information about configuring Report Manager to interoperate with Oracle BI Publisher as well as creating reports on network devices.
Installation Guide	Contains instructions for installing Oracle Communications Report Manager as an Add-on to the Session Delivery Manager including the database and BI Publisher components.

Table 4: Oracle Communications Session Route Manager Documentation Library

Document Name	Description
User Guide	Contains documentation and about using the Session Route Manager with Oracle Communications Session Delivery Products.

Revision History

Date	Description
August 2015	• Initial release
April 2016	• The Oracle Legal Notices section was updated. • The title of this guide changed from the *Oracle Communications Session Delivery Manager Report Manager User Guide Release 7.5* to *Oracle Communications Report Manager User Guide Release 7.5*.
September 2016	• The name of the *Configure* chapter was changed to *Configure Report Manager to Run Reports*. Several changes were made to the organization of the content of this chapter and several sections were rewritten for clarity.

1

Overview

The Report Manager allows you to schedule and run dynamic reports on Oracle Communications Network Session Delivery and Control devices in your network. Currently, the Report Manager users Oracle BI Publisher to render reports based on metrics collected from Historical Data Recording (HDR).

HDR refers to a group of management features that allow you to configure the managed device to collect statistics about system operation and function. The Report Manager collects raw data in CSV files from designated devices. This data is aggregated into time granularities (raw, hourly, daily, monthly), and made available for running reports.

When you set collection parameters for a device or device groups, you can specify the type of data for collection. A collection group is a collection of devices from which the user wants to collect the same set of HDR groups This data is organized into report types such as Hardware, Diameter Director Interface, and other HDR collection groups.

⚠ **Warning:** To register BI Publisher with Oracle Communications Session Delivery Manager, see the *Register BI Publisher* chapter of the Report Manager Installation Guide.

2

Configure Report Manager to Run Reports

You can perform the following administration tasks in Oracle Communications Report Manager so that reports can be run:

- Create new user group(s) with the application permissions necessary for these users to execute reports.
- Add users to the new user group(s) that you created.
- Add device groups or devices (that are created in Device Manager) to collection groups. Once collection group parameters are specified, Oracle Communications Report Manager can collect data and provide reports.
- Configure a data retention policy for saving the collected data.

Add User Group

A local (internal) user group is a logical collection of users grouped together to access common information or perform similar tasks in Oracle Communications Report Manager. You assign specific authorization privileges to a group and then assign users to it. Those users in turn, inherit the group-based privileges. See the *Add and Map a Local User Group to an External Domain User Group* section of this chapter if you need to add local group that needs to be mapped to an external domain user group.

1. Expand the **Security Manager** slider and choose **User management** > **Groups**.
2. In the **User Groups** pane, click **Add** to add a new user group.
3. In the **Add Group** dialog box, complete the following fields:

Name	Description
Group name field	The user group name. Use the following guidelines for naming this group: • Use a minimum of three characters and maximum of 50. • The name must start with an alphabetical character. • You are allowed to use alphanumeric characters, hyphens, and underscores. • The user group name is case insensitive. • The user group must be unique.
Group permissions copy from drop-down list	Choose from the following default user groups to copy their privileges: • **None**—Manually configure privileges for this user group. • **administrators**—This super user group is privileged to perform all operations.

Name	Description
	• **LIAdministrators**—This user group is privileged to perform most operations including Lawful Intercept (LI) configuration changes. These privileges do not include changing the default administrator user credentials. For example, users assigned to the default LI administration group cannot enable or disable accounts, change passwords, or expiration dates for other users in the default LI administration and administration groups. • **provisioners**—This group is privileged to configure Oracle Communications Report Manager and save and apply the configuration with the exception of a LI configuration. • **monitors**—This group is privileged to view configuration data and other types of data only. This group cannot configure Oracle Communications Report Manager, and has the fewest privileges.

4. Click **OK**.

Apply User Group Privileges for Applications

1. Expand the **Security Manager** slider and choose **User Management** > **Groups**.
2. In the **User Groups** pane, select the group you want to modify from the **User Groups** table and click **Edit**.
3. Select the **Applications** tab and click to expand the **Applications** folder.
4. Select any folder or folder item row that are described in the table below that you want to modify and click the **Privileges** column to activate the drop-down list.

   Select the following privilege from the **Privileges** drop-down list:

   - **Full**—Enable GUI elements (such as tabs) to perform configuration operations.
   - **View**—View information only.
   - **None**—Disable configuration operations and make them disappear from the GUI.

Name	Description
Application folder	Set privilege levels for all of the following applications operations.

5. Click **Apply**.

Add a User

1. Expand the **Security Manager** slider and choose **User Management** > **Users**.
2. In the **Users** pane, click **Add**.
3. In the **Add User** dialog box, complete the following fields:

Name	Description
Group **Assigned group** drop-down list	Choose from the following default user groups: • **administrators**—This super user group privileged to perform all operations. • **LIAdministrators**—This user group is privileged to perform most operations including Lawful Intercept (LI) configuration changes. These privileges do not include changing the default administrator user credentials. For example, users assigned to the default LI administration

Name	Description
	group cannot enable or disable accounts, change passwords, or expiration dates for other users in the default LI administration and administration groups. • **provisioners**—This group is privileged to configure Oracle Communications Report Manager and save and apply the configuration with the exception of a LI configuration. • **monitors**—This group is privileged to view configuration data and other types of data only. This group cannot configure Oracle Communications Report Manager, and has the fewest privileges.
User information **User name** field	The name of the user using the following guidelines: • Use a minimum of 3 characters and maximum of 50 characters. • The name must start with an alphabetical character. • The use of alphanumeric characters, hyphens, and underscores are allowed. • The name is case insensitive. • The name cannot be the same as an existing group name.
User information **Password** field	The password is entered for this user using the following guidelines: • The password must be at least 8 characters long. • Use at least one numeric character from 0 to 9 in the password. • Use at least one alphabetic character from the English language alphabet in the password. • Special characters include {, |, }, ~, [, \,], ^, _, ‘, :, ;, <, =, >, ?, !, “, #, $, %, &, `, (,), *, +, ,, -, ., and /
User information **Confirm password** field	The same password entered again to confirm it.
User account expiration dates **Account** field	Uncheck the check box to change the user account expiration date. Click the calendar icon to open a calendar to choose the date after which the user account expires. **Note:** If the check box is checked (default) the user account never expires.
Password expiration dates **Password** field	Uncheck the check box to change the password expiration date. Click the calendar icon to open a calendar to choose the date after which the user password expires. **Note:** If the check box is checked (default) the password never expires.

4. Click **OK**.
   The following information displays in the **Users** table:

Name	Description
User name column	The user name.
Group column	The user group to which the user belongs.
Status column	The status of the user account is either **enabled** or **disabled**.
Operation status field	The state of the user account and its expiration date:

Name	Description
	• **active**—The account is valid and the user can log in. Neither the account nor password expiration dates have been exceeded. • **account expired**—The account expiration date has expired. • **password expired**—The password expiration date has expired. • **password deactivated**—The failed login attempts by the user exceeded the allowed number of tries as specified by the value set for password reuse count parameter in password rules. • **locked out**—The user has exceeded the login failures and the account is disabled until the lockout duration has passed.

Collect Data for Devices or Device Groups

Add a Device Group

Use the following naming conventions when you add a device group:

- It must start with an alphabetic character.
- It can contain a minimum of three characters and a maximum of 50 characters.
- It can contain the following characters: alphabetic, numeric, hyphens (-), and underscores (_).
- It can be a mix of upper-case and lower-case characters.
- It cannot contain symbols or spaces.
- It cannot be the same name as an existing group name within the same level in the hierarchy (sibling).

1. Expand the **Device Manager** slider and click **Device Groups**.
2. In the **Device Groups** pane, click **Add**.
3. In the **Add device group** dialog box, enter the name for the device group in the **Device group name** field and click **OK**.
   The device group now appears in the **Device Groups** pane.

Add One or More Devices to a Group

1. Expand the **Device Manager** slider and click **Devices**.
2. In the **Managed Devices** pane, click **Add**.
3. In the **Add Device** dialog box, complete the following fields:

Name	Description
IP address 1 field	Enter the IP address for this device.
IP address 2 field	Enter the IP address for the second device, if this device is part of a cluster.
SNMP community name field	Enter the SNMP community name for this device, which is the name of an active community where the device can send or receive SNMP performance and fault information. **Note:** The SNMP community must be configured on the device before adding the device to the Session Delivery Manager. Use the device CLI to configure the **ip-addresses** parameter found in the **configure terminal** > **system** > **snmp-community** element. For

Name	Description
	more information, See the *SNMP Community Configuration* section in the *System Configuration* chapter of the *ACLI Configuration Guide*.
SNMP port field	The default value is 161. Enter a new SNMP port number if you want.
Device Group field	Click the ellipsis button (...). In the **Set Device Group** dialog box, select the device group to which you want this device to belong. The device group now displays in the field.
2600 device information check box	If your device is an Oracle® Communications Application Session Controller, check the check box and parameters listed below become available.
Web protocol drop-down list	Select either HTTP (unsecure) or HTTPS (secure) for the Web protocol.
Web port field	The default value is 80. Enter a new valid Web port number if you want.
Web Services protocol drop-down list	Select either HTTP (unsecure) or HTTPS (secure) for the Web services protocol.
Web Services port field	The default value is 80. Enter a new valid Web port number if you want.

4. You can either click **OK** to add the device (if you are adding only one device) to a device group in Oracle Communications Report Manager or continue to the next steps if you are adding more than one device.
5. Click **Apply. Add more?** to continue to add devices.
   The **Add Device** dialog box remains open with your originally-entered values, but the last octet of the management IP address is cleared so you can rapidly add a number to the last octet for another device. For example, 172.30.80.**112**, 172.30.80.**125**, and so on. You can also change the device type by selecting a different device type from the **Device type** drop-down list.

Add a Collection Group

Pre-requisites: Oracle Communications Report Manager must be installed properly and the reporting service must be operational. See the *Oracle Communications Report Manager Installation Guide* for more information.

Note: All devices that are added to a collection group must be running the same software version.

1. Expand the **Report Manager** slider and select **Reports** > **Collection Groups** from the navigation pane.

   Note: You must have the proper user privileges in order to see the **Collection Groups** option in the **Reports** folder on the navigation pane. See the previous sections in this chapter for more information.
2. In the **Collection Groups** pane, click **Add**.
3. In the **Add a Collection Group** pane (Step 1 of 3), complete the following fields:

Name	Description
Name field	The collection group name.
Description drop-down list	The description of the collection group.
Start collection field	Select the **Now** checkbox to start the collection of data now.

Name	Description
Later	Click the calendar icon to select a future start date. Enter the future time hh:mm:ss
Stop collection field	Select the **Never** checkbox to never start the collection of data.
At	Click the calendar icon to select a definitive end date. Enter the definitive end time: hh:mm:ss

4. In the **Managed Devices** table, navigate to select individual devices, or navigate to an entire device group folder from which you want to collect data.
5. Click **Add** to move the device(s) or device group(s) to the **Collect on following devices** table.
6. Click **Next**.
7. In the **Add a Collection Group** dialog box (Step 2 of 3), complete the following fields:

Name	Description
Push interval field	The number of minutes from 1 to 120 for how often you want the device to send collected records to the push receiver. The default time is 15 minutes.
Global Collection interval field	The number of minutes you want the device to collect statistics for the specified historical data record (HDR) groups (used for data detection) to view in a report; this value cannot exceed the push interval value. The default time is 5 minutes.
Collect on all groups field	Select the **Yes** checkbox to collect on all device groups.

8. Check the checkbox for each collection group that you want to change in the **Specify the collection interval for each device group, if different than global interval** table (if a device group needs a different collection interval than the global collection interval value, which is 5 minutes by default).
9. Click **Next**.
10. In the **Add a Collection Group** dialog box (Step 3 of 3), complete the following fields for the push receiver device information:

Name	Description
FTP Server IP Address field	The IP address or hostname for the FTP/SFTP push receiver.
User name field	The user name for the host FTP/SFTP push receiver.
Password field	The password for the host FTP/SFTP push receiver.
FTP path for data storage field	The directory on the push receiver where you want data placed, which may differ from the absolute path given system security though the two typical points to the same location.
Protocol drop-down list	Select **FTP** or **SFTP** as the protocol to send CSV files.
Absolute path of data storage field	The absolute (Oracle Communications Session Delivery Manager server) path for data storage, which can point to the same directory as the FTP path. For example: **/home/nncentral/hdrdata** **Note:** In some implementations absolute path may need to include the FTP root directory. For example: <ftpRootDirectory>/<ftpLocation>

11. Click **Finish** to complete collection group configuration.
12. In the success message that appears, click **OK**.
    The collection group now appears in the **Collection Groups** table.

Edit the Collection Group Start and End Times

The start and end times are the only parameters in a collection group that can be edited after a collection group is created.

1. Expand the **Report Manager**.
2. Click **Collection Groups**.
3. In the **Collection Groups** pane, select the collection group you want to edit and click **Edit**.
4. In the **Devices** tab, edit the start or end times and click **Apply**.

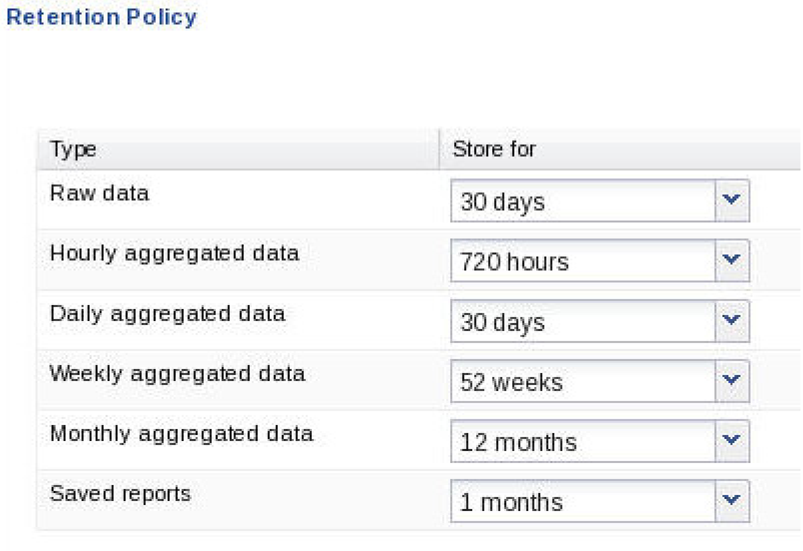
Change the Data Retention Policy

Once data collection has begun, the Oracle Communications Session Delivery Manager server running Oracle Communications Report Manager aggregates the data based on several default types of periodic data collection methods. Use this task if you want to modify the default data retention policy for retaining raw data and each aggregation time (raw, hourly, or daily). Data and reports that exceed the retention times you configure are automatically purged from the system each night.

Note: There is no maximum value for retention time. If you set the retention time to 0, data is not retained for that time period, and the data is purged once it is aggregated.

Caution: Increasing retention times increases disk usage. Ensure that the host to which HDR data is being delivered has the disk capacity to store the required retention periods.

1. Expand **Report Manager** and click **Retention Policy** in the navigation pane.
2. In the **Retenion Policy** table, select retention times for raw data and aggregated data from the drop-down lists.



Retention Policy

Type	Store for
Raw data	30 days
Hourly aggregated data	720 hours
Daily aggregated data	30 days
Weekly aggregated data	52 weeks
Monthly aggregated data	12 months
Saved reports	1 months

Figure 1: Default data retention values

3. Click **Apply**.

3

Data Services

This chapter describes how data is handled between your SBC and SDM. The chapter contains sections on the following information:

- Pushing Data to the SDM
- File types and naming conventions
- Aggregating data types
- Time granularities
- Data retention
- Purging data

See the *Report Manager Administrative Tasks* chapter for configuration information.

Pushing Data to the Session Delivery Manager Server

The devices push the data to the configured push receiver in standard CSV format. SDM Report Manager periodically monitors the push receiver folder, which is configured in the Collection Group screen, for any new data.

The push receivers are configured on the SBC. An example is below:

```
ACMEPACKET# conf t
ACMEPACKET(configure)# sys
ACMEPACKET(system)# snmp-c
ACMEPACKET(snmp-community)# community-name EastCoast
ACMEPACKET(snmp-community)# ip-addresses 172.30.1.1
ACMEPACKET(snmp-community)# show
snmp-community
        community-name                 EastCoast
        access-mode                    READ-ONLY
        ip-addresses
                                       172.30.1.1
        last-modified-by
        last-modified-date
ACMEPACKET(snmp-community)# done
```

For more information, see the "SNMP Community Configuration" section in the System Configuration chapter of the ACLI Configuration Guide.

The receivers push the device's HDR data to the Oracle Communications Report Manager servers the user has specified. If the server is a member of the Oracle Communications Report Manager cluster, device data is delivered to each member in the cluster.

Finally, the device creates a FTP/SFTP connection to the push receiver, or Oracle Communications Report Manager server, and the CSV files are pushed.

File Types and Naming Conventions

Statistical records are forwarded from the device to the Oracle Communications Report Manager server for viewing in a comma-separated value (CSV) file on the server. Before pushing a file, the device creates a directory by group name for which the statistic belongs (for example, diameter director, system, etc.), if the directory does not exist from a previous push.

Each file is formatted as `<UTC timestamp in seconds>.csv` (for example, 201112250000.csv).

Each CSV file contains a record for the header containing the statistical attribute name, as well as both the push interval and collection interval records. The first record of each file is a header containing the attribute name. For example, in the “System” directory, a file name of 201112250000.csv can contain the header names of CPU Utilization, Memory Utilization, Health Score, Redundancy State, etc. Also included in the files are both the push interval and collection interval files. For example, if the collection interval is one minute, and the push interval is 15, a collection occurs every minute for 15 minutes. The CSV file in this example contains 15 records.

Aggregating Data

The configured push receiver uses FTP/SFTP to push the CSV files to the Report Manager server at the location specified in the <nodename>/<groupname> directory. Before Report Manager can aggregate the data, it must identify new files, add them to a files table, and load them into the reporting database.

Data Type Aggregation Behavior

Below is a table of data types, and the aggregation behavior for each type.

Data Type	**Aggregation Behavior**
Dimension	Dimensions cannot be aggregated
Identifiers	Identifiers cannot be aggregated
State	The most recent state value
Boolean	The most recent boolean value
Count	The sum of the integer values
Range (i.e. 0-100)	The average of all values
Current value	The average of all values
Capacity	The average of all values
Index	The most recent index value
High water mark	The maximum value
Maximum rate	The maximum value
Low water mark	The minimum value
Minimum rate	The minimum value
Percentage	The average of all percentage values
Rate	The average of all rate values
Latency	The average of all latency values

Data Type	Aggregation Behavior
Ratio	The average of all ratios
Speed	The average of all speeds
Temperature	The average of all temperatures

Time Granularity

Time Measurements in Report Manager

Reporting Manager time measurements are based on the UTC time. The devices pushing data to Oracle Communications Report Manager send raw data in UTC time. UTC does not operate on Daylight Savings Time (DST), and therefore the timestamps of CSV files do not fluctuate due to DST. Time zones of the Oracle Communications Report Manager client nor the reporting device are relevant in the Report Manager.

Reports are available in the following time granularities: raw, hourly, daily, and monthly.

An aggregation schedule below describes the time frame for processing raw data based on UTC time.

- CSV Timestamps: CSV data files are titled with the UTC timestamp in seconds, otherwise known as the Unix Epoch time.
- Aggregation and Purging: Aggregation time granularities and purging schedules are based on the Gregorian calendar. References to start time and date are based on the UTC time relative to the Gregorian calendar.

Time Granularity Start and End Date

The table below describes the collection and aggregation periods of data in the Report Manager:

Time Granularity	Aggregation Schedule
Raw	Raw data is not aggregated. It is collected by the device as specified in the Global collection interval parameter, and pushed to the receiver as specified in the Push interval parameter. These are both configured under **Administration** > **Collection Groups**.
Hourly	Starts at the 00 minute of the hour and ends at minute 59 of the hour. The next hour starts at the following 00 minute.
Daily	Starts at the 00:00 hour and minute of the day (midnight), and ends at hour and minute 23:59. The next day starts at the following 00:00 hour.
Monthly	Starts at the 00:00 hour and minute on the first day of the month, and ends at hour and minute 23:59 on the last day of the month. The next month starts at the following 00:00 hour.

Shared Data Between Time Granularities

Aggregated data for each time granularity is independent of other granular data. Data for a given calendar week (Sunday through Saturday) can be included in reports for two consecutive calendar months if a new month begins in the middle of the week.

Data Retention

You can configure the data retention times for raw data and each aggregation time granularity (raw, hourly, or daily). There is no maximum value for retention time. If you set the retention time to 0, data is not retained for that granularity, and the data is purged once it is aggregated.

Below are the default data retention times for each time granularity:

Granularity	Retention Time
Raw	30 days
Hourly	720 hours
Daily	30 days
Data Files	30 days

Purging Data

Oracle Communications Report Manager performs a nightly purge of all expired data, CSV files, and reports based on configured data retention times.

4

Reports

The Report Manager provides a small set of predefined reports. Operational reports are the reports you run on aggregated HDR. To run a report, you must first configure collection groups. Consult the Report Manager Configuration chapter for more information.

If you enabled Single Sign On, clicking on Operational Reports in the Reports Manager slider will open BI Publisher in a new tab and sign you in to BI Publisher with the same account name used to sign in to SDM. If you did not enable Single Sign On, you will have to log in to BI Publisher manually.

Note: If you are signed in as the Administrator, you will not see the Operational Report section of the Report Manager slider. To access Operational Reports, you must be signed in as a user who has Full privileges under **Security Manager** > **Groups** > **Application management access** section. See the Configuration chapter for details about adding users.

Reports in BI Publisher

The upper-case groups (e.g., Performance, QoS, Registrations, etc.) correspond to the canned reports, while the lower-case groups (e.g., radius-stats, session-agent, sip-invites, etc.) correspond to the SBC's HDR groups. For more information about HDR groups, see the HDR Resource Guide for your software version.

Canned Reports

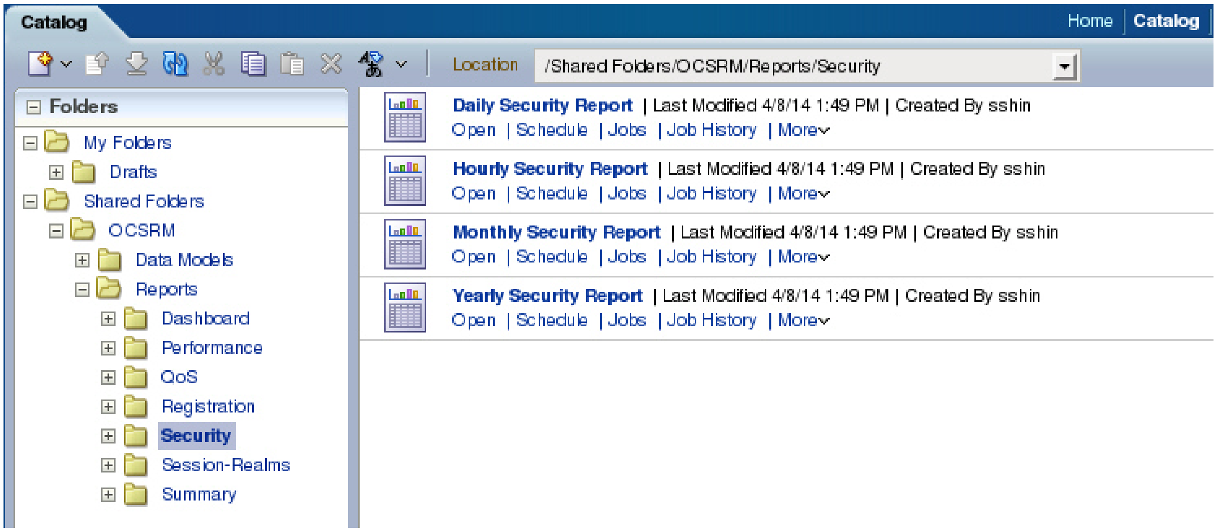
Report Manager comes with the following predefined reports:

- Dashboard—Displays space used, fan speed, temperature, and voltage.
- Performance—Displays CPU, memory, registration cache, and concurrent sessions.
- QoS—Displays RFactor, major exceeded, critical exceeded, and successful sessions.
- Registrations—Displays total registrations, initial registrations, refresh registrations, and de-registrations.
- Security—Displays ACL entries, requests and message status, ACL entry promotions and demotions, and demotions.
- Session Realm—Displays calls per second, QoS RFactor, answer seizure ratio, and one-way signalling latency.
- Summary—Displays sessions, session state, dialogs, and errors.

To run a canned report:

1. In the toolbar, click **Catalog**.
2. In the Folders section, navigate to **Shared Folders** > **OCSRM** > **Reports**.
3. Select one of the following folders:

- Dashboard
- Performance
- QoS
- Registrations
- Security
- Session Realm
- Summary



Location /Shared Folders/OCSRM/Reports/Security

Daily Security Report | Last Modified 4/8/14 1:49 PM | Created By sshin
Open | Schedule | Jobs | Job History | More

Hourly Security Report | Last Modified 4/8/14 1:49 PM | Created By sshin
Open | Schedule | Jobs | Job History | More

Monthly Security Report | Last Modified 4/8/14 1:49 PM | Created By sshin
Open | Schedule | Jobs | Job History | More

Yearly Security Report | Last Modified 4/8/14 1:49 PM | Created By sshin
Open | Schedule | Jobs | Job History | More

4. To run the report, select Open under the time granularity you want (Daily, Hourly, Monthly, Yearly).
5. To schedule a report, click **Schedule**.
6. To manage the job or edit start and end times, click **Jobs**.
7. To view the job history, click **Job History**.
8. To add the report to your Favorites, click **More** > **Add to Favorites**.

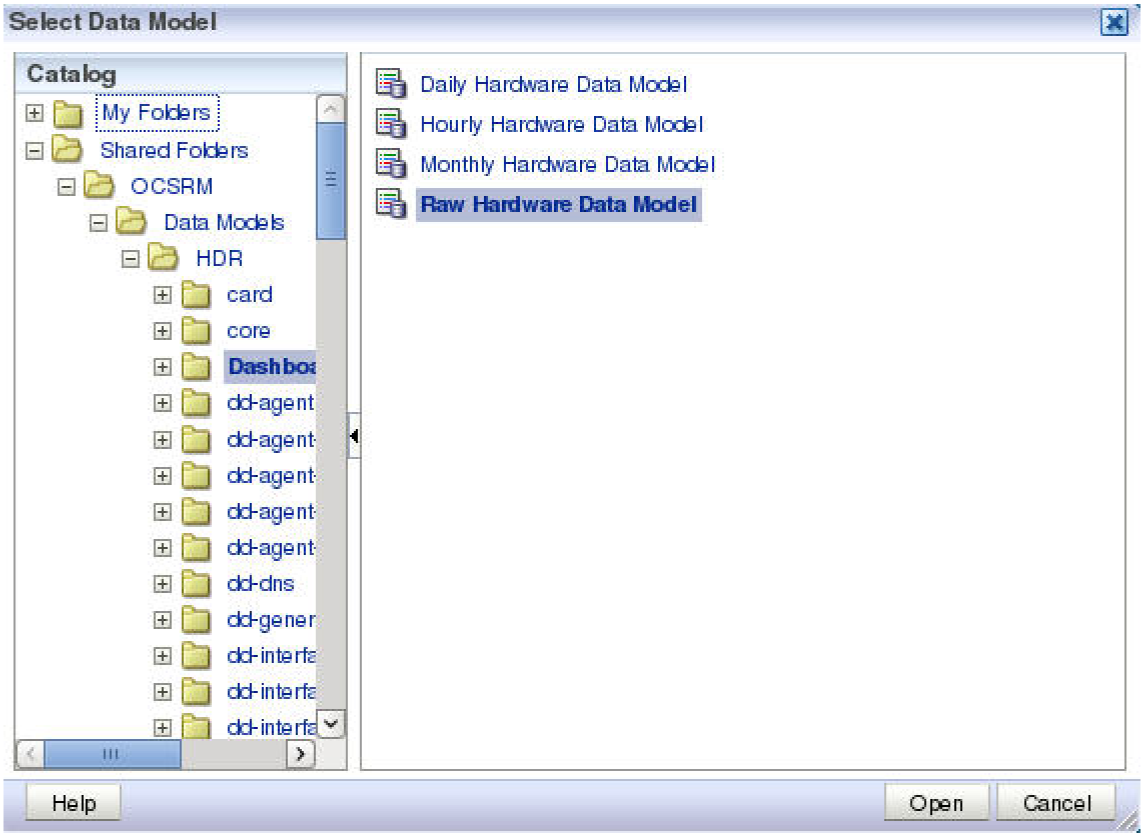
New Reports

To create a new report:

1. In the Create section, click **Report**.
2. If your data source is an existing data model, select **Use Data Model**, click the magnifying glass, and select an existing data model from the catalog. If your data source is in a spreadsheet, click **Upload Spreadsheet** and browse to the .xls file.

   If the uploaded spreadsheet contains multiple sheets, select the sheet to use as the data source. You can include data from only one sheet.

   A picture of selecting a data model from the catalog is shown.



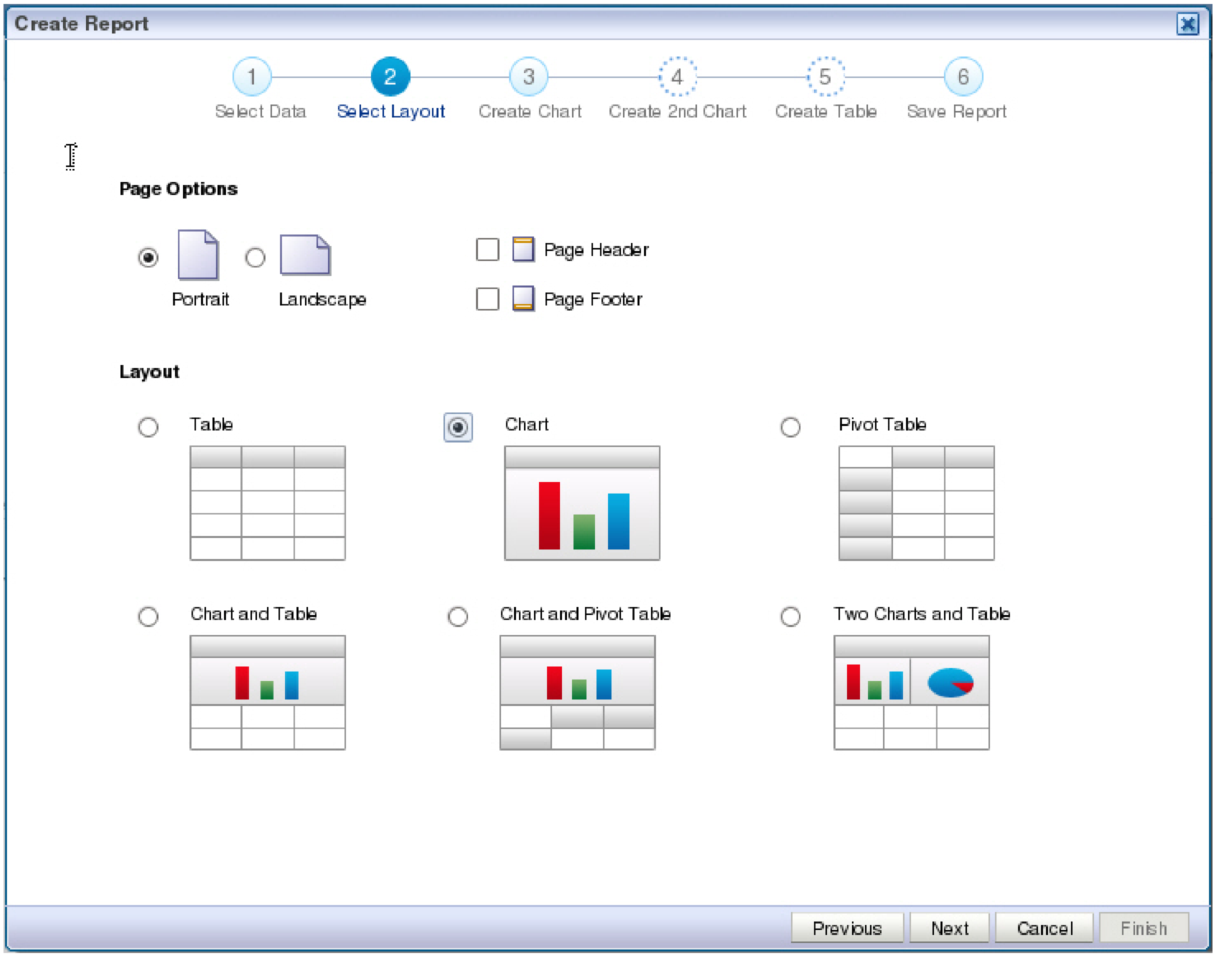
3. After selecting a data model, click **Open**.
4. Click **Next**.
5. Select a layout for your report.

   Page Options are:

   - Portrait
   - Landscape
   - Page Header
   - Page Footer

   Layout options are:

   - Table
   - Chart
   - Pivot Table
   - Chart and Table
   - Chart and Pivot Table
   - Two Charts and Table



Page Options

● Portrait ○ Landscape

□ Page Header

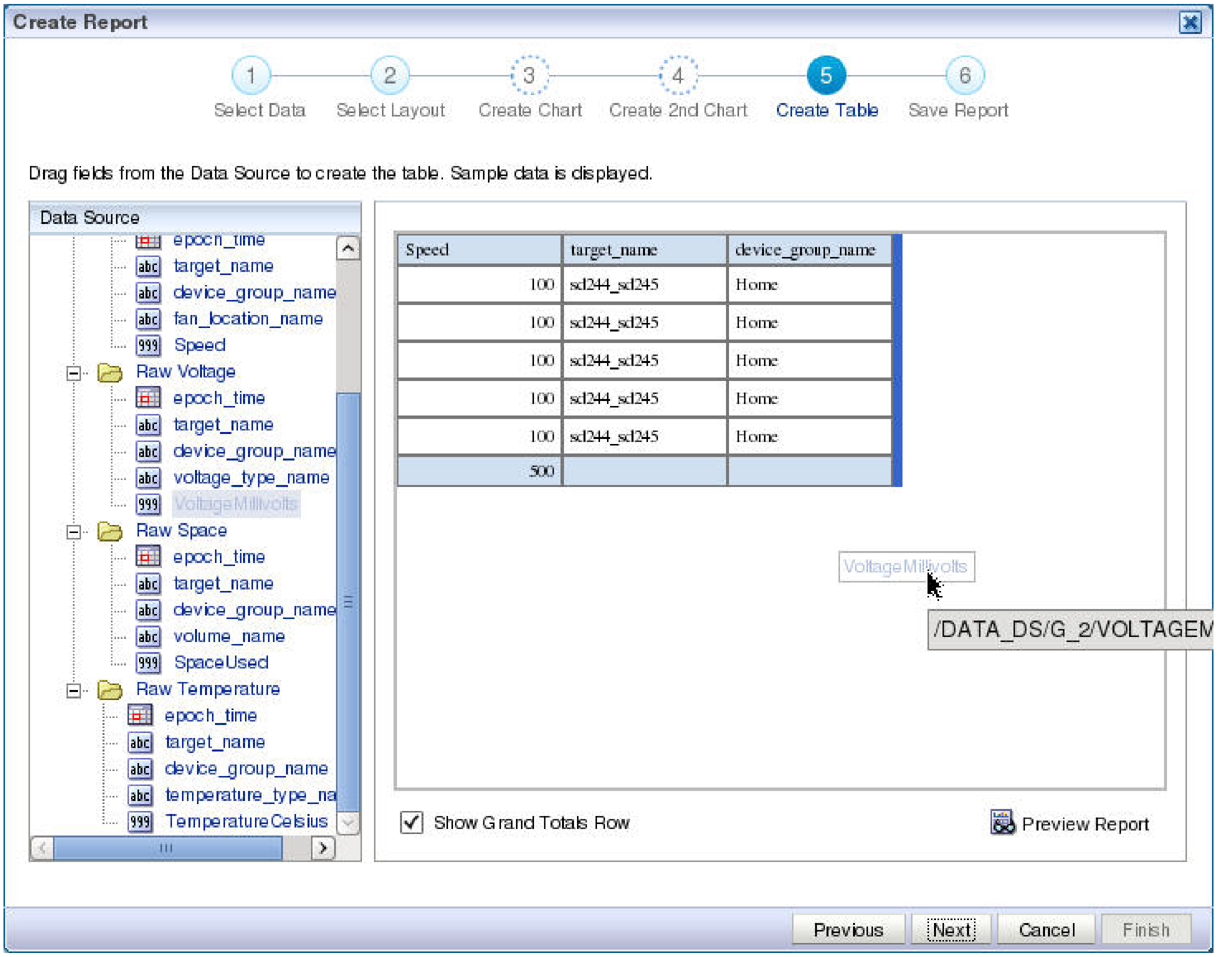
□ Page Footer

Layout

○ Table ● Chart ○ Pivot Table

○ Chart and Table ○ Chart and Pivot Table ○ Two Charts and Table

6. Click **Next**.
7. Select the parameters you want in your table and drag them from the Data Source tree to the main window.



Drag fields from the Data Source to create the table. Sample data is displayed.

Speed	target_name	device_group_name
100	sd244_sd245	Home
100	sd244_sd245	Home
100	sd244_sd245	Home
100	sd244_sd245	Home
100	sd244_sd245	Home
500		

☑ Show Grand Totals Row

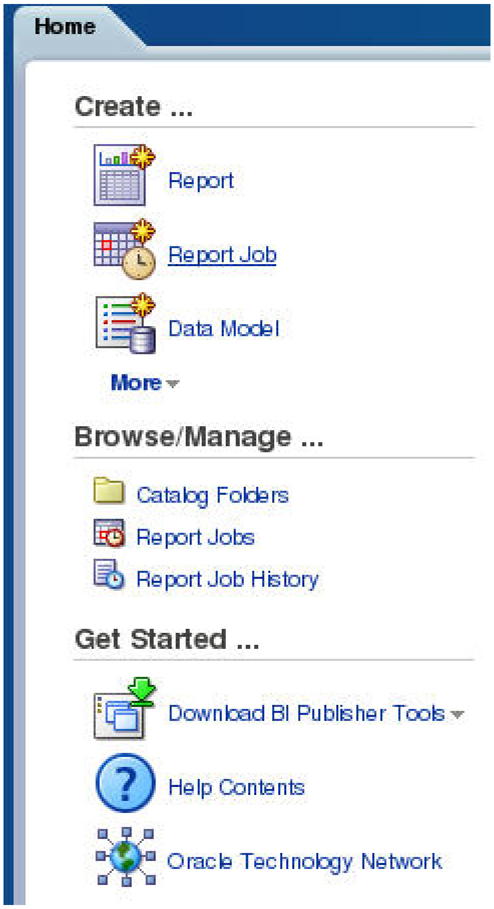
8. Select View Report and click **Finish**.
9. In the Save As dialog box, select a location to save the report and a title.
10. Click **Save**.
11. The report will begin automatically.

Note: For more information about running reports, see *Creating and Editing Reports* from the BI Publisher documentation.

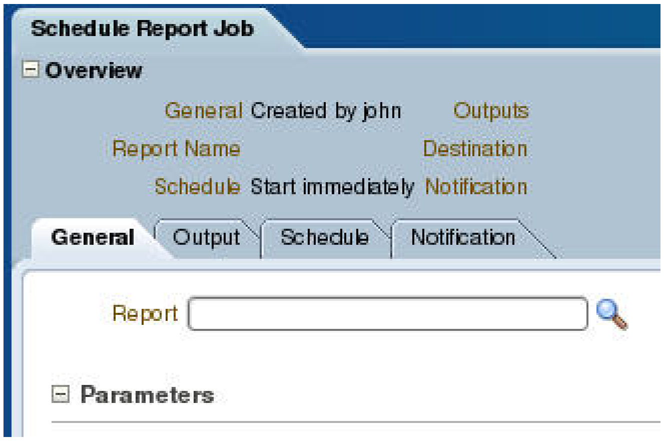
Scheduled Reports

To create a canned report in BI Publisher:

1. From the Report Manager slider, click **Operational Reports**.
   This will sign you in to BI Publisher.
2. Click on Report Job in the Create section of the Home tab.



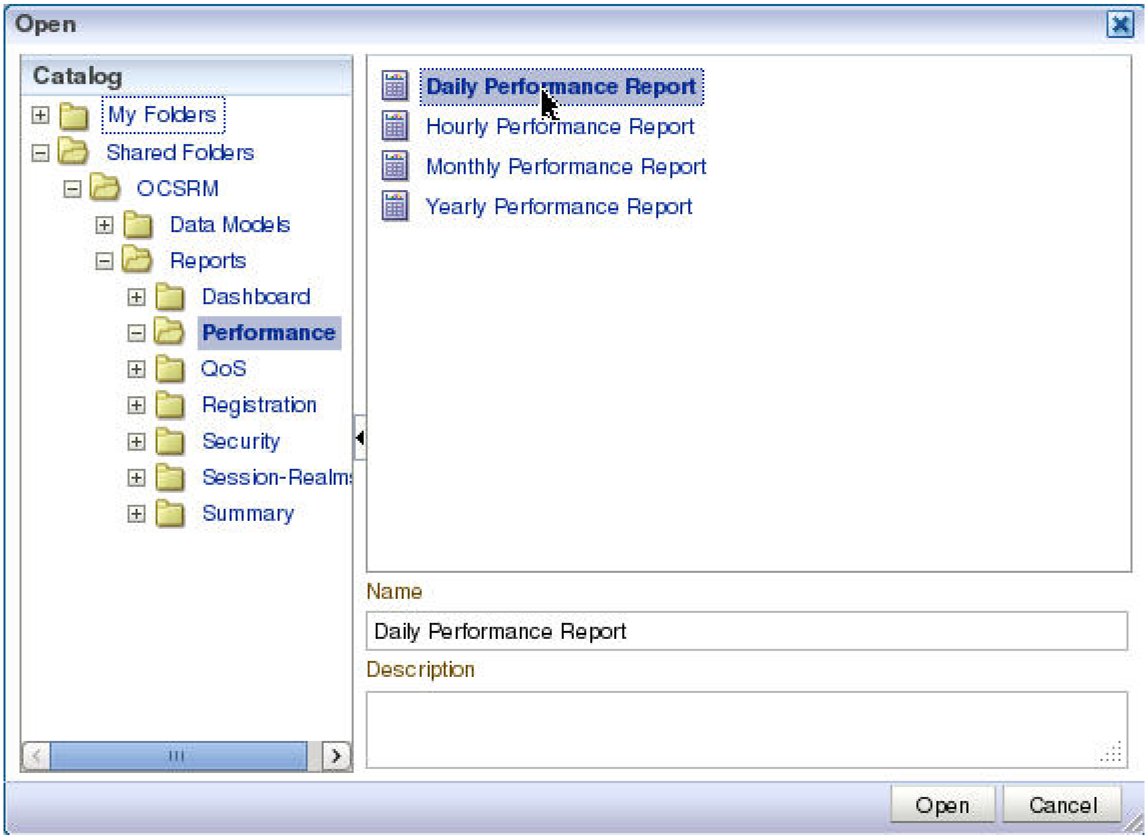
3. Click on the magnifying glass icon to select a report.



General Created by john

Schedule Start immediately

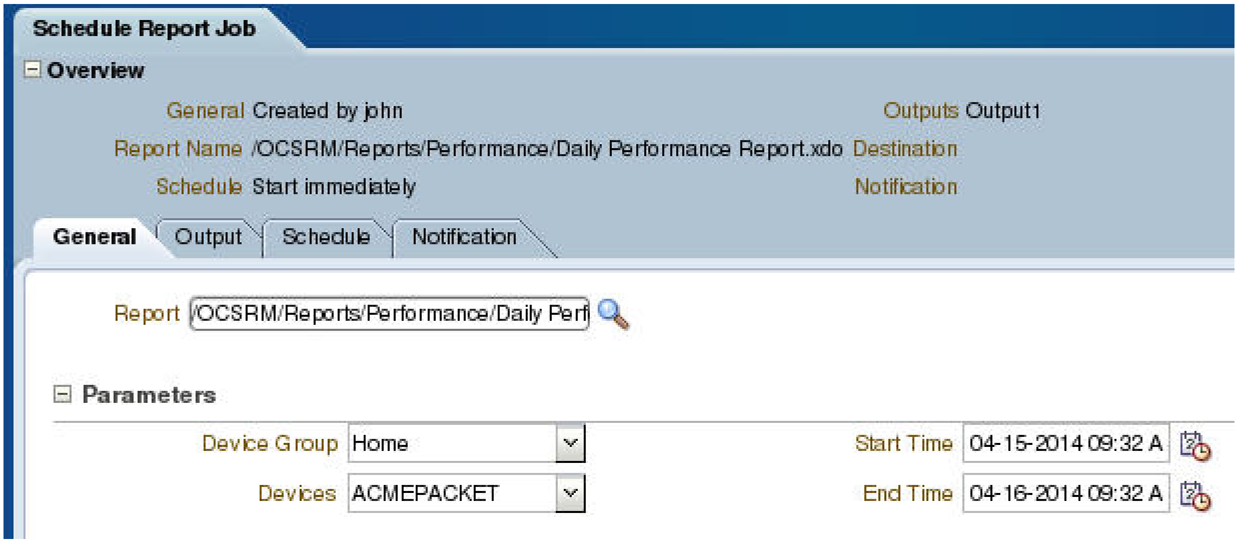
4. Expand **Shared Folders** > **OCSRM** > **Reports**.
5. Select the canned report you want. Then select the time granularity you want.



Name: Daily Performance Report

Description:

6. Click **Open**.
7. Select the Start Time and End Time.



General Created by john

Report Name /OCSRM/Reports/Performance/Daily Performance Report.xdo

Schedule Start immediately

Outputs Output1

Destination

Notification

Report /OCSRM/Reports/Performance/Daily Perf

Device Group Home

Devices ACMEPACKET

Start Time 04-15-2014 09:32 A

End Time 04-16-2014 09:32 A

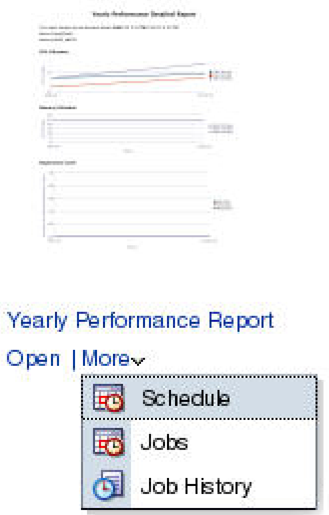
8. Click **Submit** in the top right corner.

Scheduling Reports in BI Publisher

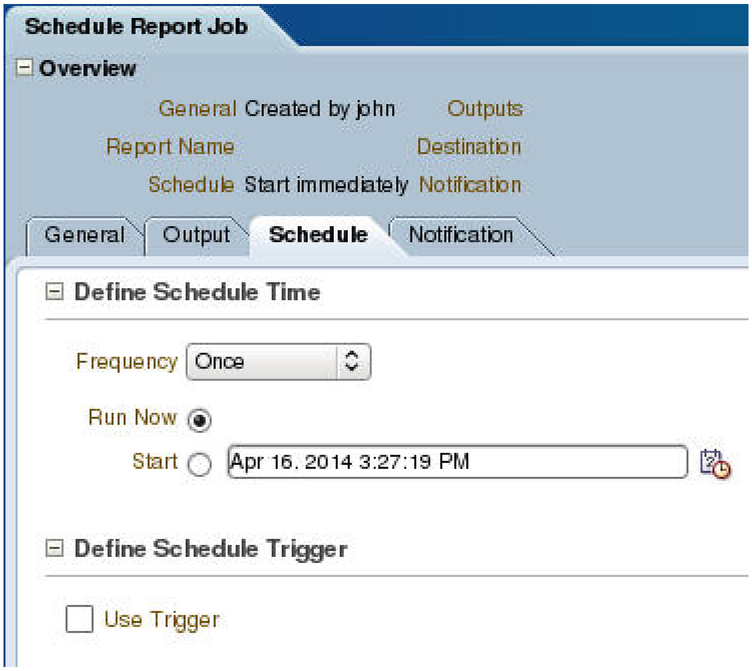
After a report is created, you may schedule the report to run at regular intervals.

To schedule reports:

1. If you have already created the report, from the Home tab click **More** > **Schedule** under the report you want to schedule.



2. If you are in the process of creating a job, click on the Schedule tab.


Schedule Report Job

Overview

General Created by john
Outputs
Report Name
Destination
Schedule Start immediately
Notification

Define Schedule Time

Frequency Once

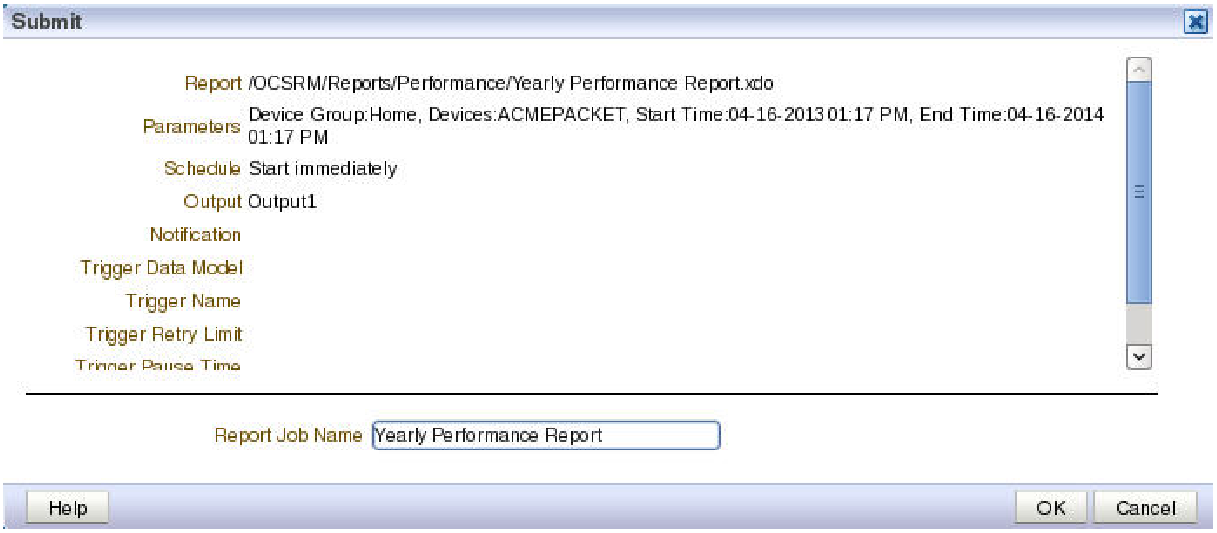
Run Now ●

Start ○ Apr 16, 2014 3:27:19 PM

Define Schedule Trigger

□ Use Trigger

3. Select the frequency from the drop-down list.
4. Select the start time and, if given, the stop time.
5. If you want to conditionally execute reports, select the Use Trigger check box and specify the relevant data model.
6. Enter a name for the report and click **OK**.



Report /OCSRM/Reports/Performance/Yearly Performance Report.xdo

Parameters Device Group:Home, Devices:ACMEPACKET, Start Time:04-16-2013 01:17 PM, End Time:04-16-2014 01:17 PM

Schedule Start immediately

Output Output1

Notification

Trigger Data Model

Trigger Name

Trigger Retry Limit

Trigger Pause Time

Report Job Name Yearly Performance Report

7. Click **Submit**.

Favorites

The Favorites region enables you to create your own list of objects for quick access. From the Favorites region you can view, schedule, configure, or edit the objects that you place there (providing you also have proper permissions)

There are several ways to add objects to the Favorites region:

- Locate the object in the catalog, click the **More** link, and then click **Add to Favorites**
- From the Report Viewer, click the **Actions** menu, and then click **Add to Favorites**
- Use the **Manage** link on the Home page to add reports

To add and delete reports from the Favorites region, click the **Manage** link to open the Favorites area for editing.

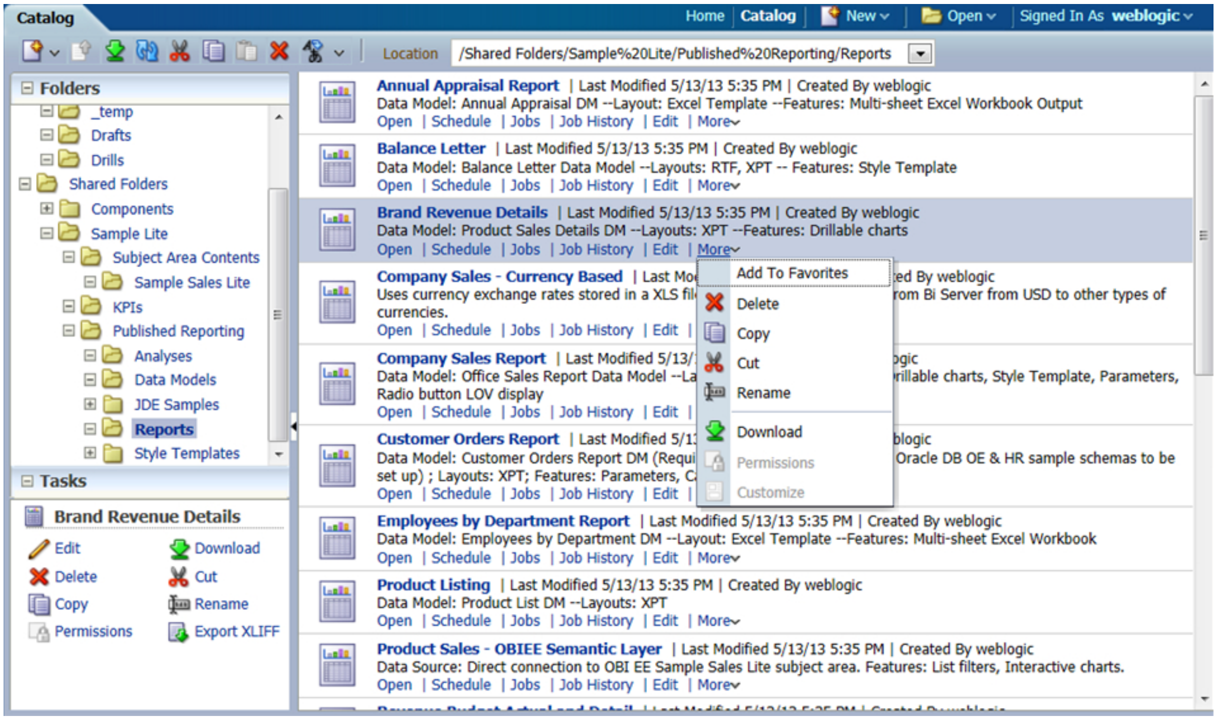
To add a report to Favorites:

1. Click the report in the catalog pane.
2. Drag the report to the Favorites region.

To delete an object from Favorites:

1. Locate the item and click the **More** link.
2. Click **Remove.**

Reports



Annual Appraisal Report | Last Modified 5/13/13 5:35 PM | Created By weblogic
Data Model: Annual Appraisal DM --Layout: Excel Template --Features: Multi-sheet Excel Workbook Output
Open | Schedule | Jobs | Job History | Edit | More

Balance Letter | Last Modified 5/13/13 5:35 PM | Created By weblogic
Data Model: Balance Letter Data Model --Layouts: RTF, XPT -- Features: Style Template
Open | Schedule | Jobs | Job History | Edit | More

Brand Revenue Details | Last Modified 5/13/13 5:35 PM | Created By weblogic
Data Model: Product Sales Details DM --Layouts: XPT --Features: Drillable charts
Open | Schedule | Jobs | Job History | Edit | More

Company Sales - Currency Based | Last Mo... ...ed By weblogic
Uses currency exchange rates stored in a XLS fil... ...rom Bi Server from USD to other types of currencies.
Open | Schedule | Jobs | Job History | Edit |

Company Sales Report | Last Modified 5/13/... ...gic
Data Model: Office Sales Report Data Model --La... ...rillable charts, Style Template, Parameters, Radio button LOV display
Open | Schedule | Jobs | Job History | Edit |

Customer Orders Report | Last Modified 5/1... ...blogic
Data Model: Customer Orders Report DM (Requi... ...Oracle DB OE & HR sample schemas to be set up) ; Layouts: XPT; Features: Parameters, C...
Open | Schedule | Jobs | Job History | Edit |

Employees by Department Report | Last Modified 5/13/13 5:35 PM | Created By weblogic
Data Model: Employees by Department DM --Layout: Excel Template --Features: Multi-sheet Excel Workbook
Open | Schedule | Jobs | Job History | Edit | More

Product Listing | Last Modified 5/13/13 5:35 PM | Created By weblogic
Data Model: Product List DM --Layouts: XPT
Open | Schedule | Jobs | Job History | Edit | More

Product Sales - OBIEE Semantic Layer | Last Modified 5/13/13 5:35 PM | Created By weblogic
Data Source: Direct connection to OBI EE Sample Sales Lite subject area. Features: List filters, Interactive charts.
Open | Schedule | Jobs | Job History | Edit | More

Links to BI Publisher Documentation

Oracle provides extensive documentation for BI Publisher.

For a quick introduction about using BI Publisher, see the *BI Publisher Quick Start Guide*.

For instructions on viewing and running reports, see the *BI Publisher User's Guide*.

If you are the system administrator for BI Publisher, please review the *BI Publisher Administrator's Guide*.

For a list of all BI Publisher documentation, see the *BI Publisher Documentation Library*.