12

Monitoring: Task Manager

This chapter explains how to use the Task Manager to monitor and perform various tasks in Prime Provisioning.

Task Manager allows you to view pertinent information about both current and expired tasks of all types, and to create and schedule new tasks, delete specified tasks, and delete the active and expired tasks.

This chapter contains the following sections:

Tasks

This section contains the following topics:

Starting Task Manager

To start Task Manager, click **Operate > Tasks > Task Manager**. The Tasks list page appears.

The Tasks window displays information about each task by **Task Name**, **Type**, **Targets**, **Schedules** date and time, the **User Name** who created those tasks, and the date **Created on**. To view, schedule, or delete the listed tasks, check the corresponding check box.

New Tasks can also be created or audited using this window.

Create

To create a new task, follow these steps:

Step 1 From the Task Manager Window, click **Create**. From the resulting drop-down list, you can choose from the following and that choice becomes the **Type** in Figure 12-1.

- **Collect Config**—Collects configuration from devices.
- **Collect Config From Files**—Collects configurations from files.
- **Enable Disable VFW Traps**—Enable or disable the VFW traps.
- **L2VPN (L2TPv3) Functional Audit**—
- **Password Management**—Manages user passwords and SNMP community strings.
- **SLA Collection**—Collects data from SLA enabled devices.
- **Service Deployment**—Deploys an existing SR.
- **TE Full Discovery**—Performs discovery of all TE enabled devices. The discovery task runs without stopping until all devices have been discovered.
- **TE Incremental Discovery**—In TE Incremental Discovery, the discovery tasks are run in increments whenever changes occur in the network, such as when a new device or link is added, causing a much smaller memory overhead than a TE Full Discovery.
- **TE Interface Performance**—Calculates tunnel and interface bandwidth utilization using SNMP.

Figure 12-1   Create Tasks

Step 2 **Name**—Enter the name of the task. You can accept the default value.

Step 3 **Type**—Defined in Step 1.

Step 4 **Description** (optional)—Enter a description.

Step 5 **Task Configuration Method** (default: **Simplified**)—Choose **Simplified** or **Advanced (via wizard)**. If you choose **Simplified**, you can make many selections in one window. If you choose **Advanced (via wizard)**, you navigate through many windows to make your selections.

Step 6 Click **Next** to continue.

Depending on what type of task you select, the Task Devices, Task Service Requests, or Configurations File Directory page appears with variations.

Step 7 Where appropriate, click **Select/Deselect** to add devices or service requests.

✎

Note   Step 7 to Step 10 do not apply for Collect Config From Files and TE Interface Performance.

Step 8   In the resulting selection window, select the devices or service requests and click **Select**.

The selected devices or service requests appears.

Step 9   **Groups** might or might not appear depending on the task you specify in the previous step. If it does appear, you can add groups of devices, similarly to Step 7 and Step 8. If it does not appear or after you complete this device group selection, proceed to Step 10.

Step 10   Choose the **Options**.

If the **Retrieve Interfaces** check box is checked, Prime Provisioning uses Simple Network Management Protocol (SNMP) to retrieve device interface information, such as ifIndex, and so on. If the **Retrieve Interfaces** check box is unchecked, configuration collection information is still retrieved, but SNMP is not used. All scenarios other than doing IP Service Level Agreement (SLA) probes do not require SNMP or this option.

Step 11   If **Configuration File Directory** appears, enter the path to the directory on your Prime Provisioning server into the **Configuration File Directory** text box, to indicate the directory on the Prime Provisioning server where the offline configuration files are stored.

Step 12   For **Schedule**, click **Now**, **Later**, or **None**. If you choose **Later**, a Later Schedule category appears. You are then required to click the **Edit** button and the Task Scheduler page appears.

Step 13   Select information to schedule the task and click **OK** (default is to schedule **Now**).

Step 14   Click **Submit** to continue.

The new task is added to the list of tasks.

Audit

To get audit information, click **Audit** from the **Tasks** page. From the resulting drop-down list, you can choose from the following and that choice becomes the **Type**:

- **Config Audit**—Compares Prime Provisioning generated configlet against the one in the device.
- **L2VPN (L2TPv3) Functional Audit**—Audits L2TPv3 functionality.
- **MPLS Functional Audit**—Audits MPLS functionality.
- **TE Functional Audit**—Checks the Label-Switch Path (LSP) on a router against the LSP stored in the repository.

Details

To get details about a particular task, follow these steps:

Step 1   From the **Tasks** page, check a check box for one task for which you want to see a detailed list of information.

Step 2   Click **Details.**

Step 3   Click **OK** to return.

Schedules

To change the scheduling of an existing task, follow these steps:

Step 1   From the **Tasks** page, check a check box for the one task for which you want to reset the scheduling directions.

Step 2   Click **Schedules.**

Step 3   If you want to delete this task, proceed to Step 4. If you want to reset the scheduling directions, proceed to Step 5.

Step 4   In the new window, check the check box for the task you want to delete and click the **Delete** button. Then proceed to Step 7.

Step 5   In the new window, click **Create**.

Step 6   Make the new scheduling selections you want and click **Save** to reset the scheduling directions.

Step 7   Uncheck any check boxes and click **OK** to return.

Logs

This selection from the **Tasks** page, is another way of doing what is explained in the "Task Logs" section on page 12-5.

Delete

To delete one or more tasks, follow these steps:

Step 1   From the **Tasks** page, check one or more check boxes for the task(s) you want to delete.

You receive a confirmation window.

Step 2   If you want to delete, click **OK**. If not, click **Cancel**.

Step 3   You return to an updated **Tasks** page.

Collect Config from Files

To use this feature, you should have the following:

- Configlets of a device saved as a XML file in the below format.

```
<?xml version="1.0" encoding="UTF-8"?>
-<Device_Config>
    -<Running_Config>
        <![CDATA[ ]]>
      </Running_Config>
```

```
        -<Version>
            <![CDATA[ ]]>
        </Version>
</Device_Config>
```

- Directory details where the XML file is placed.

To collect configuration details from a file, perform the below steps:

Step 1   Click **Operate > Tasks > Task Manager.**

Step 2   In the Task Manager window, click **Create**.

Step 3   Choose **Collect Config from Files** from the dropdown list.

Step 4   In the Create Task window, you are able to modify the name and description details.

Step 5   Click **Next**.

Step 6   In Collect Config Task window, enter the directory details of the XML file in the **Configuration File Directory** field.

Step 7   Choose **Submit**.

Note   The device should be available in the Inventory for the collect config task to run successfully.

Task Logs

Task Logs can be used to understand the status of a task, whether it completed successfully. You can also use the Task Logs to troubleshoot why a task has failed. To view the Task Logs, follow these steps:

Step 1   Click Operate > **Tasks > Task Logs**.

The Task Logs window appears.

This window displays the task by **Runtime Task Name**, and the **Action**, **Start Time**, **End Time**, and the **Status** of the task. You can use this window to view or delete the logs.

Step 2   To view the log, check the check box for the row that represents the task and click the **View Log** button.

The Task Log page appears.

It is possible to set the types of log level you want to view. Specify the Log Level and click on the Filter button to view that information you want to view.

Step 3   Click **Return to Logs** to specify another log to view.