CHAPTER 21

Reports

The Cisco Prime Infrastructure reporting is necessary to monitor the system and network health as well as troubleshoot problems. A number of reports can be generated to run on an immediate and scheduled basis. Each report type has a number of user-defined criteria to aid in the defining of the reports. The reports are formatted as a summary, tabular, or combined (tabular and graphical) layout. Once defined, the reports can be saved for future diagnostic use or scheduled to run and report on a regular basis.

Reports are saved in either CSV or PDF format and are either saved to a file on Prime Infrastructure for later download or emailed to a specific email address.

The reporting types include the following:

- Current, which provides a snap shot of the data that is not dependent upon time.
- Historical, which retrieves data from the device periodically and stores it in Prime Infrastructure database
- Trend, which generates a report using aggregated data. Data can be periodically collected based from devices on user-defined intervals, and a schedule can be established for report generation.

With Prime Infrastructure, you also have the ability to export any report that you can view, sort reports into logical groups, and archive for long-term storage.

The Reports menu provides access to all Prime Infrastructure reports as well as currently saved and scheduled reports.

- Report Launch Pad—The hub for all Prime Infrastructure reports. From this page, you can access specific types of reports and create new reports.
- Scheduled Run Results—Allows you to access and manage all currently scheduled runs in Prime Infrastructure. In addition, allows you to access and manage on-demand export as well as emailed reports.
- Saved Report Templates—Allows you to access and manage all currently saved report templates in Prime Infrastructure.

This section contains the following topics:

Configuring and Managing Reports

The Report Launch Pad provides access to all Prime Infrastructure reports from a single page. From this page, you can create and save new reports, view current reports, open specific types of reports, schedule a report to run at a later point in time, and customize the results of a report.

Tip Hover your mouse cursor over the tool tip next to the report type to view more report details.

This section contains the following topics:

- Creating, Scheduling, and Running New Reports, page 21-2
- Customizing Report Results, page 21-3

Creating, Scheduling, and Running New Reports

To create and run new reports:

Step 1 Choose **Report > Report Launch Pad**.

The reports are listed by category in the main section of the page and on the left sidebar menu. Click on a category on the left sidebar menu to see the report types for each report category.

Step 2 Find the appropriate report in the main section of the Report Launch Pad.

To view currently saved report templates for a report type, click the report name on the Report Launch Pad, or click on the report type in the navigation on the left side of the Report Launch Pad page. The currently saved templates will be listed in the main section of the page.

Step 3 Click **New** to the right of the report. The Report Details page for the report you selected appears.

Step 4 In the Report Details page, complete the fields as described in Table 24-1. Parameters shown in the Report Details will vary with the report type.

With some reports, you will need to customize the report results. See Customizing Report Results, page 21-3

Step 5 If you plan to run this report at a later point in time or as a recurring report, enter Schedule parameters as explained in the "Schedule" section of Table 24-1. The Schedule parameters allow you to control when and how often the report must run.

Step 6 When all report parameters have been set, choose one of the following:

- Run—Click to run the report without saving the report setup.
- Save—Click to save this report setup without immediately running the report. If you have entered Schedule parameters, the report runs automatically at the scheduled data and time.
- Run and Save—Click to save this report setup and run the report immediately.
- Save and Export—Click to save the report, run it, and export the results to a file. You will be prompted to:
  - Select the exported report's file format (CSV or PDF).
  - Choose whether to send an email when the report has been generated. If you choose this option, you must enter the destination email address and the email subject line content, and choose whether you want the exported file included as an attachment to the email.

When you are finished, click OK.

- Save and Email—Click to save the report, run it, export the results as a file and email the file. You will be prompted to:
  - Select the exported report file format,
  - Enter the destination email address and the email subject line content.

  When you are finished, click OK.
- Cancel—Click to return to the previous page without running or saving this report.

If a report has been saved for a specific report type, you can access the current reports from the Report Launch Pad.

Note You cannot change or update the generated reports together for all sub domains. You can open the generated reports individually through respective subdomains to change the reports. If all reports need to be updated, then delete all the reports created on subdomains and then regenerate the virtual domain reports using the add new report workflow with the changes.

Customizing Report Results

Many reports allow you to customize their results, so that you can include exclude different types of information. If the report you are creating permits this, it will display a **Customize** button. You can click this button to access the Create Custom Report page and customize the report results.

Customizing report results is sometimes required. For example: Adding Flexible NetFlow (FNF) Extension parameters to the Traffic Analysis, Application, or Voice Video Data monitoring templates makes them part of your Prime Infrastructure monitoring setup. But it does not mean the collected FNF extension monitoring data will appear automatically in the corresponding Conversations reports for Core, ART and RTP performance. To ensure this FNF data is included in these Conversations reports, you must add these FNF parameters to the "Data fields to include "column using the Create Custom Report page (see Table 24-2).

To customize report results:

Step 1 Choose **Report > Report Launch Pad**.

The reports are listed by category in the main section of the page and on the left sidebar menu.

Step 2 Click the Report Title link for the appropriate report to open the Report Details page.

Step 3 Click **Customize** to open the Create Custom Report page.

Step 4 Complete the fields as described in Table 24-2.

Step 5 Click **Apply** to confirm the changes.

Note The changes made in the Create Custom Report page are not saved until you click **Save** on the Report Details page.

Managing Scheduled Run Results

To view all currently scheduled runs in Prime Infrastructure, choose **Report > Scheduled Run Results**.

Note The scheduled report tasks are not visible outside the Virtual Domain they run in. The results of the scheduled report tasks are visible from the Scheduled Run Results page of respective domains.

Note The list of scheduled runs can be sorted by report category, report type, time frame, and report generation method. For information about the fields on this page, see Table 24-3.

The Scheduled Run Results page displays the following information:

- Report Title—Identifies the user-assigned report name.

  Note Click the report title to view the details for this report.

- Report Type—Identifies the specific report type.
- Status—Indicates whether or not the report ran successfully.
- Message—Indicates whether or not this report was saved and the file name for this report (if saved).
- Run Date/Time—Indicates the date and time that the report is scheduled to run.
- History—Click the History icon to view all scheduled runs and their details for this report.
- Download—Click the Download icon to open or save a .csv/.pdf file of the report results.

Managing Saved Report Templates

In the Saved Report Templates page, you can create and manage saved report templates. You can also enable, disable, delete, or run currently saved report templates. To open this page in Prime Infrastructure, choose **Report > Saved Report Templates**.

Note The list of saved report templates can be sorted by report category, report type, and scheduled status (enabled, disabled, or expired). For information about the fields on this page, see Table 24-4.

The Saved Report Templates page displays the following information:

- Report Title—Identifies the user-assigned report name.

  Note Click the report title to view the details for this report.

- Report Type—Identifies the specific report type.
- Scheduled—Indicates whether this report is enabled or disabled.
- Run—Click the **Run** icon to immediately run the current report.