

IDP Series

IDP Reporter User's Guide

Release

5.1



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Preface

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- Audience on page xiii
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- Related Documentation on page xv
- Requesting Technical Support on page xv

Objectives

The purpose of this guide is to provide procedures for using Juniper Networks IDP Series IDP Reporter software.

Audience

This guide is intended for network administrators who are familiar with and use the Juniper Networks Intrusion Detection and Prevention (IDP) Series products.

Documentation Conventions

This section provides all the documentation conventions that are followed in this guide. Table 1 on page xiii defines notice icons used in this guide.

Table 1: Notice Icons





Icon	Meaning	Description
	Informational note	Indicates important features or instructions.
	Caution	Indicates a situation that might result in loss of data or hardware damage.
	Warning	Alerts you to the risk of personal injury or death.
	Laser warning	Alerts you to the risk of personal injury from a laser.

Table 2 on page xiv defines text conventions used in this guide.

Table 2: Text Conventions

Convention	Description	Examples
Bold typeface like this	<ul style="list-style-type: none"> Represents commands and keywords in text. Represents keywords Represents UI elements 	<ul style="list-style-type: none"> Issue the clock source command. Specify the keyword exp-msg. Click User Objects
Bold typeface like this	Represents text that the user must type.	user input
<code>fixed-width font</code>	Represents information as displayed on the terminal screen.	<pre>host1# show ip ospf Routing Process OSPF 2 with Router ID 5.5.0.250 Router is an area Border Router (ABR)</pre>
Key names linked with a plus (+) sign	Indicates that you must press two or more keys simultaneously.	Ctrl + d
<i>Italics</i>	<ul style="list-style-type: none"> Emphasizes words Identifies variables 	<ul style="list-style-type: none"> The product supports two levels of access, <i>user</i> and <i>privileged</i>. <i>clusterID</i>, <i>ipAddress</i>.
The angle bracket (>)	Indicates navigation paths through the UI by clicking menu options and links.	Object Manager > User Objects > Local Objects

Table 3 on page xiv defines syntax conventions used in this guide.

Table 3: Syntax Conventions

Convention	Description	Examples
Words in plain text	Represent keywords	terminal length
Words in italics	Represent variables	<i>mask</i> , <i>accessListName</i>
Words separated by the pipe () symbol	Represent a choice to select one keyword or variable to the left or right of this symbol. The keyword or variable can be optional or required.	diagnostic line
Words enclosed in brackets ([])	Represent optional keywords or variables.	[internal external]
Words enclosed in brackets followed by and asterisk ([]*)	Represent optional keywords or variables that can be entered more than once.	[level1 level2 11]*
Words enclosed in braces ({ })	Represent required keywords or variables.	{ permit deny } { in out } { clusterId ipAddress }

Related Documentation

Table 4 on page xv lists related IDP Series documentation.

Table 4: Related IDP Series Documentation

Document	Description
Release notes	Contains information about what is included in a specific product release: supported features, unsupported features, changed features, known problems, and resolved problems. If the information in the release notes differs from the information found in the documentation set, follow the release notes.
IDP Detector Engine release notes	Provides information about IDP Detector Engine releases, including new features, changed features, fixed problems, and known issues.
J-Security Center Attack Signatures	Lists predefined attack signatures developed by J-Security Center.
J-Security Center Application Signatures	Lists predefined application signatures developed by J-Security Center.
IDP Series installation guides	Describes IDP Series hardware and provides instructions for installing, configuring, updating, and servicing the device.
IDP Series Feature Documentation	A collection of topics from the <i>IDP Series Administration Guide</i> and <i>IDP Series Concepts and Examples Guide</i> , in HTML.
<i>IDP Series Administration Guide</i>	Provides procedures for completing IDP Series administration tasks with the Network and Security Manager (NSM) central management program; with the IDP Series device Appliance Configuration Manager (ACM); and with the IDP Series device command-line interface (CLI).
<i>IDP Series Concepts and Examples Guide</i>	Explains IDP Series features and provides examples of how to use the system.
<i>IDP Series Custom Attack Objects Reference and Examples Guide</i>	Provides examples and reference information for creating custom attack objects.
<i>IDP Reporter User's Guide</i>	Describes how to use IDP Reporter, an on-box reporting platform that includes predefined reports on attack detection and application usage. You can also use IDP Reporter to schedule regular publication of reports that are of interest to you or your stakeholders.

Requesting Technical Support

Technical product support is available through the Juniper Networks Technical Assistance Center (JTAC). If you are a customer with an active J-Care or JNASC support contract, or are covered under warranty, and need post-sales technical support, you can access our tools and resources online or open a case with JTAC.

- JTAC policies—For a complete understanding of our JTAC procedures and policies, review the *JTAC User Guide* located at <http://www.juniper.net/us/en/local/pdf/resource-guides/7100059-en.pdf>.

- Product warranties—For product warranty information, visit <http://www.juniper.net/support/warranty/> .
- JTAC hours of operation—The JTAC centers have resources available 24 hours a day, 7 days a week, 365 days a year.

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- Find product documentation: <http://www.juniper.net/techpubs/>
- Find solutions and answer questions using our Knowledge Base: <http://kb.juniper.net/>
- Download the latest versions of software and review release notes: <http://www.juniper.net/customers/csc/software/>
- Search technical bulletins for relevant hardware and software notifications: <https://www.juniper.net/alerts/>
- Join and participate in the Juniper Networks Community Forum: <http://www.juniper.net/company/communities/>
- Open a case online in the CSC Case Management tool: <http://www.juniper.net/cm/>

To verify service entitlement by product serial number, use our Serial Number Entitlement (SNE) Tool: <https://tools.juniper.net/SerialNumberEntitlementSearch/>

Opening a Case with JTAC

You can open a case with JTAC on the Web or by telephone.

- Use the Case Management tool in the CSC at <http://www.juniper.net/cm/> .
- Call 1-888-314-JTAC (1-888-314-5822 toll-free in the USA, Canada, and Mexico).

For international or direct-dial options in countries without toll-free numbers, see <http://www.juniper.net/support/requesting-support.html> .

PART 1

IDP Reporter User's Guide

- IDP Reporter Overview on page 3
- IDP Reporter User Interface Overview on page 5
- Enabling Statistics Collected by IDP Reporter on page 11
- Using Predefined Dashboards and Reports on page 15
- Creating Customized Dashboards on page 25
- Using Profiles to Schedule Reporting on page 31

CHAPTER 1

IDP Reporter Overview

This chapter includes the following topics:

- IDP Reporter Overview on page 3
- IDP Reporter Supported Platforms on page 3

IDP Reporter Overview

IDP Reporter is an on-box reporting feature for IDP Series devices. Like Network and Security Manager (NSM) reports, IDP Reporter enables you to analyze your enterprise network thoroughly so you can assess attacks, attackers, and resource utilization. IDP Reporter and NSM reports use the same logs as the basis for reports. You use the on-box option instead of the NSM alternative when you want to give an interested party access to reports for an IDP Series device but not access to reports for all devices in an NSM domain.

You have three options for distributing access to IDP Reporter reports:

- Create a login for an IDP Reporter user to log in and view IDP Reporter dashboards and reports.
- Create an export of an IDP Reporter dashboard or report and distribute the export files as you would similar files.
- Create report profiles and schedule jobs to publish reports by e-mail (using SMTP) or posting to a location (via FTP).

Related Documentation

- Creating an IDP Reporter User on page 6
- Exporting Reports on page 23
- Creating a Profile Job on page 31

IDP Reporter Supported Platforms

IDP OS Release 5.1 supports IDP Reporter on the following platforms:

- IDP8200, IDP800, IDP250, IDP75
- IDP1100, IDP600, IDP200



NOTE: IDP Reporter is functional on all platforms. If you encounter performance issues on single-core platforms, we recommend you disable IDP Reporter.

**Related
Documentation**

- Enabling Statistics Collected by IDP Reporter on page 11

CHAPTER 2

IDP Reporter User Interface Overview

This chapter includes the following topics:

- Accessing the IDP Reporter User Interface on page 5
- Creating an IDP Reporter User on page 6
- IDP Reporter User Interface Overview on page 6
- Troubleshooting Access to the IDP Reporter User Interface on page 9

Accessing the IDP Reporter User Interface

You use an Internet browser to connect to the IDP Reporter user interface. We have verified support on the following browsers

- Internet Explorer 7.x, 6.x
- Mozilla Firefox 3.x, 2.x

To connect to the user interface:

1. In a supported browser, open the login page. The login page is a URL similar to the following:

`https://host/reports`

Where *host* is the hostname or IP address for the computer on which you installed the software.

2. Log in with **root** for username and the root password.



NOTE: You can safely accept the Juniper Networks SSL certificates. Also, if prompted, install the latest Java Runtime Environment (JRE).

Related Documentation

- Troubleshooting Access to the IDP Reporter User Interface on page 9
- Creating an IDP Reporter User on page 6
- IDP Reporter User Interface Overview on page 6

Creating an IDP Reporter User

You can access IDP Reporter with the same credentials you use to access ACM. Alternatively, to distribute access to IDP Reporter only, you can create users with permission to access IDP Reporter only.

To create an IDP Reporter user:

1. Log into the CLI as **admin** and enter **su -** to switch to **root**.
2. Run the following command to create a user named reports:

```
[root@default host conf]# useradd reports
```
3. Run the following command to change the password for the user named reports:

```
[root@default host conf]# passwd reports
```
4. Edit the `/etc/httpd/conf/idphttpd.conf` file to give the user named reports access to the `/reports` directory. Add the following line under `<Location /reports>`:

```
require user root reports
```

For example:

```
[root@default host conf]# vi idphttpd.conf
SetEnv PATH_TRANSLATED "/usr/idp/reporter/\1\2"
SetEnv FWA_TEMPDIR "/usr/idp/reporter/temp/"
<Location> /reports>
    require user root reports
SetHandler perl-script
    PerlHandler WebConf::LaunchReports
</Location>
```

5. Restart the httpd process by entering the following command:

```
service httpd restart
```

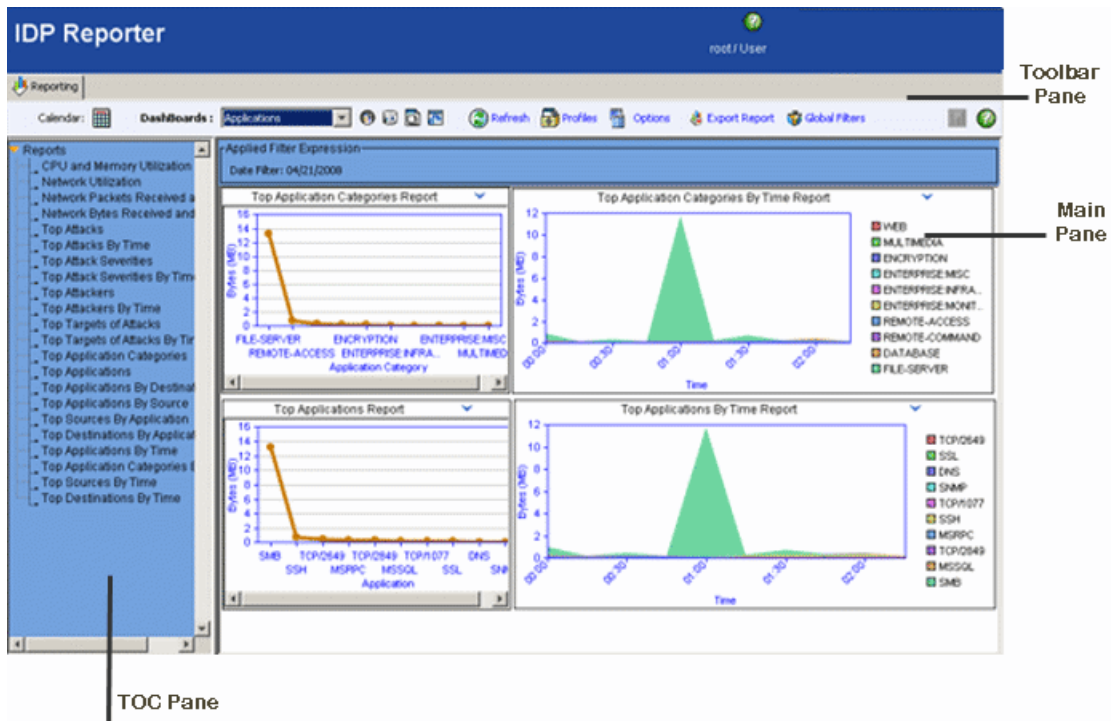
Related Documentation

- Accessing the IDP Reporter User Interface on page 5

IDP Reporter User Interface Overview

Figure 1 on page 7 shows the IDP Reporter user interface as it appears when you log in.

Figure 1: IDP Reporter User Interface


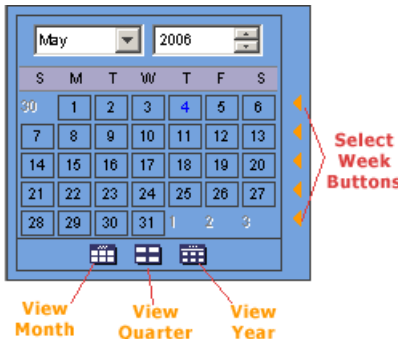






The IDP Reporter user interface divides the browser window into three panes:

- Main—Displays the Dashboard view or Report view.
- TOC—A table of contents for reports that can be displayed in the Report view.
- Toolbar—Utilities you can use to filter data and export reports.

The toolbar pane persists whether you display the Dashboard view or the Report view in the main pane. Table 5 on page 8 summarizes the toolbar utilities.

Table 5: Toolbar Utilities

Utility	Description
<p>Calendar</p> 	 <p>Enables you to apply time filters across reports.</p> <p>To display the calendar frame, click the Calendar icon.</p> <p>Select a month and year from the top of the calendar.</p> <p>Press the Shift-click key combination to select a contiguous date range. Press the Ctrl-click key combination to select noncontiguous days.</p> <p>Use the Select Week buttons along the right-side of the calendar to select the corresponding week.</p> <p>Use the View Month, View Quarter, and View Year buttons along the bottom to select the corresponding interval.</p> <p>NOTE: If you apply View Quarter or View Year date filters, you cannot use the Query by Day filter.</p>
<p>Refresh</p> 	<p>Refreshes data in the active report or reports.</p>
<p>Profiles</p> 	<p>Displays the Profile Manager. The Profile Manager enables you to create jobs that publish a report according to a schedule.</p>
<p>Export Report</p> 	<p>Displays the Export Report dialog box. The Export Report dialog box enables you to export reports you specify.</p>
<p>Global Filters</p> 	<p>Displays the Global Filters dialog box. The Global Filters dialog box enables you to apply a filter or filters to all dashboards and reports.</p> <p>TIP: You can configure a set of global filters that may be of interest and then use the Disable Global Filters check box (within the Global Filters dialog box) to toggle between the filtered and unfiltered view of the default set of dashboards and reports).</p>

- Related Documentation**
- Accessing the IDP Reporter User Interface on page 5
 - Displaying Dashboards on page 15
 - Displaying Reports on page 18
 - Exporting Reports on page 23
 - Creating a Profile Job on page 31

Troubleshooting Access to the IDP Reporter User Interface

Problem This topic describes steps to troubleshoot problems accessing the IDP Reporter user interface.

Solution Table 6 on page 9 describes problems and suggested solutions for issues related to client access to the user interface.

Table 6: Troubleshooting Client Access to the User Interface

Problem	Solution
JRE installation problems	<p>You can access IDP Reporter with any browser that supports Java Virtual Machine. IDP Reporter requires a specific version of the Java Runtime Environment (JRE). If you do not already have this Java plug-in, the IDP Reporter server detects this and prompts you to install the compatible version. Follow the prompts to download and install the specific version.</p> <p>If necessary, you can install JRE manually. For information, see http://www.java.com/en/download/index.jsp.</p> <p>TIP: Oracle Corporation recommends you remove previous versions of Java or JRE before installing the latest.</p>
JRE heap space errors	<p>We recommend you set the JRE maximum heap space to 256 MB. If your heap space is between 128 MB and 256 MB, The application can be launched but displays a message noting the recommended heap space. If the heap space is set to less than 128 MB, the application cannot be launched.</p> <p>In Microsoft Windows environments, you can use the Control Panel to edit Java settings.</p> <p>In Linux environments:</p> <ol style="list-style-type: none"> 1. Launch the Control Panel by entering a command similar to the following: <code>/usr/java/jdk1.6.0/jre/bin/ControlPanel</code> 2. Navigate to Java Control Panel > Java > View to display the Java Run-time Parameters dialog box. 3. In the row for your JRE version (for example, jre1.6), enter <code>-Xms256M -Xmx256M</code>.
Errors related to Java plugins in a Linux environment	<p>If you have not already done so, create a symbolic link to the Java plugin:</p> <ol style="list-style-type: none"> 1. Navigate to the Mozilla plugins directory. For example, enter: <code>cd /Mozilla-Installation-Directory/plugins</code> 2. Create a symbolic link to the Java plugin. For example, enter: <code>ln -s /usr/java/jre1.6/plugin/i386/ns7/libjavaplugin_oji.so libjavaplugin_oji.so</code>

Table 6: Troubleshooting Client Access to the User Interface (*continued*)

Problem	Solution
Browser display errors	In your browser, you must enable Java and JavaScript and allow pop-ups. In your browser, choose Tools > Options and update the appropriate settings.
Too many windows opened	To enable the UI JavaScript to close windows the UI has opened: <ol style="list-style-type: none">1. In your browser address bar, enter about:config.2. Scroll to the preference dom.allow_scripts_to_close_windows.3. Double-click the entry to set the value to true.

Related Documentation

- Accessing the IDP Reporter User Interface on page 5

CHAPTER 3

Enabling Statistics Collected by IDP Reporter

This chapter includes the following topics:

- Enabling Statistics Collected by IDP Reporter on page 11
- Troubleshooting Statistics Collection on page 12

Enabling Statistics Collected by IDP Reporter

IDP Reporter gets its data from the following IDP Series device log files:

- Attack logs
- Application Profiler logs (also called “application volume tracking” or AVT logs)

Attack logs are generated according to the log setting in your security policy rules. Application Profiler logs are generated only if you enable AVT logs and only when the Profiler service is running. AVT is enabled by default. When necessary, use the CLI or NSM procedure to re-enable application profiling and AVT.

To enable application statistics collection with the CLI:

1. Enter the following command to see whether AVT is already enabled:

```
[root@defaulthost diaglogs]# scio const -s s0:flow get sc_periodic_stat_update
```

If AVT is running, the console displays a message that `sc_periodic_stat_update` is set to `0x1`.

If AVT is not running, run the following command to turn it on:

```
[root@defaulthost diaglogs]# scio const -s s0:flow set sc_periodic_stat_update 1
```

2. Enter the following command to view Profiler status:

```
[root@defaulthost diaglogs]# profiler.sh status
profiler.....off
```

If necessary, start the Profiler.

```
[root@defaulthost ~]# profiler.sh start
```

Related Documentation The following topic is included in the *IDP Reporter User's Guide*:

- Troubleshooting Statistics Collection on page 12

The following topic is included in the *IDP Series Concepts and Examples Guide*:

- Example: Using NSM to Enable and View Application Volume Tracking

Troubleshooting Statistics Collection

Problem This topic describes steps to troubleshoot problems that could cause a “no data available” error in IDP Reporter reports.

Solution Table 7 on page 12 describes problems and suggested solutions for issues related to client access to the user interface.

Table 7: IDP Reporter Statistics Collection Troubleshooting Steps

Step	Example
Check to see if application volume tracking is enabled.	<pre>[root@defaulthost ~]# scio const -s s0:flow get sc_periodic_stat_update scio: sc_periodic_stat_update = 0x1</pre> <p>The value 1 (0x1) indicates enabled; 0 (0x0) indicates disabled. If necessary, use the set command to enable.</p>
Check to see if the Profiler service is running.	<pre>[root@defaulthost ~]# profiler.sh Usage: /usr/idp/device/bin/profiler.sh {start stop status version restart} [root@defaulthost ~]# profiler.sh status profiler.....off</pre> <p>If necessary, restart the service.</p>
Check the status of IDP processes.	<pre>[root@defaulthost ~]# idp.sh Usage: /usr/idp/device/bin/idp.sh {start stop status version restart reload recover} [root@defaulthost ~]# idp.sh status Retrieving status... idpinit (pid 5890).....ON idpengine_0 (pid 6022).....ON idpLogReader (pid 9130).....ON agent (pids 9137).....ON idpHMD (pid 9133).....ON sciod (pid 9144).....ON pkid (pids 9165).....ON</pre> <p>If necessary, restart.</p>
Check the status of the IDP Reporter service.	<pre>[root@defaulthost ~]# /etc/init.d/idprepservice Usage: /etc/init.d/idprepservice {start stop restart}</pre> <p>If necessary, start the service.</p> <pre>[root@defaulthost ~]# /etc/init.d/idprepservice restart</pre>

Table 7: IDP Reporter Statistics Collection Troubleshooting Steps (*continued*)

Step	Example
Check to see if statistic collections are being generated.	<p>Check timestamps for files in the following directories to see whether they are generated as expected: /usr/idp/device/var/stat and /var/idp/reporter/logs.</p> <ul style="list-style-type: none"> • Open the following log files in an editor, such as vi, and read the messages appended to the log: • /usr/idp/reporter/diaglogs/mainengine.log • /usr/idp/reporter/diaglogs/Parserdiag.log
Check to see if, inadvertently, a global filter results in zero matching records.	Check if a global filter has been set, resulting in zero matching records. See "IDP Reporter User Interface Overview" on page 6.

Related Documentation • Enabling Statistics Collected by IDP Reporter on page 11

CHAPTER 4

Using Predefined Dashboards and Reports

This chapter includes the following topics:

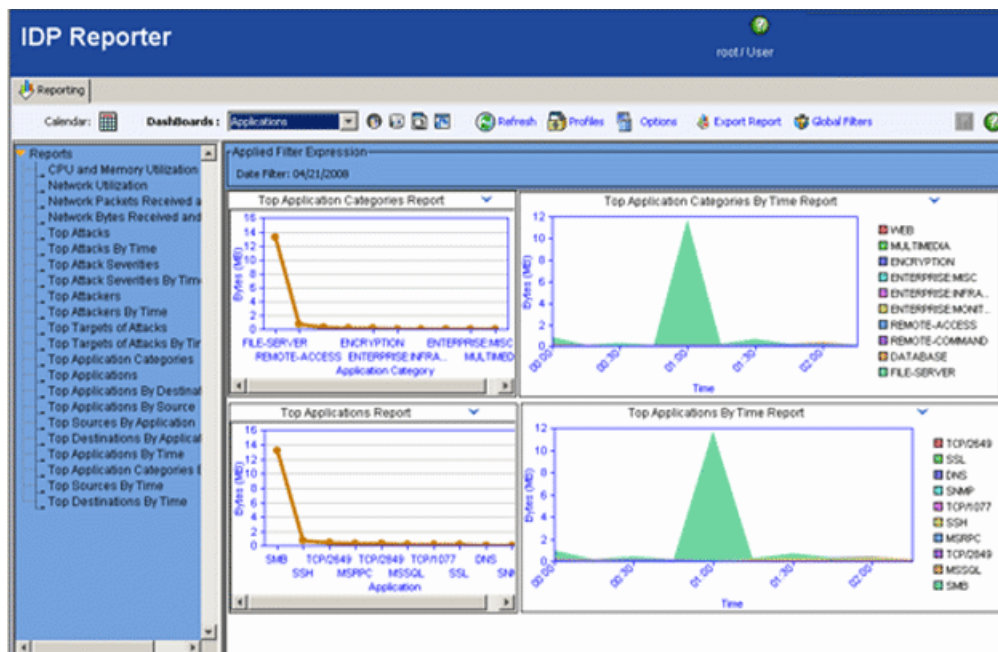
- Displaying Dashboards on page 15
- Using Filters and Display Options with Dashboards on page 16
- Displaying Reports on page 18
- Modifying Reports on page 19
- Applying Local Filters on page 21
- Using the Drilldown Feature on page 22
- Exporting Reports on page 23

Displaying Dashboards

The Dashboard View is displayed when you log into the user interface.

Figure 2 on page 16 shows the Dashboard View.

Figure 2: Dashboard View

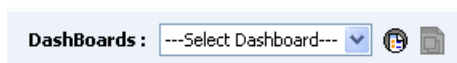


A dashboard is a layout of panels. Each panel contains one report. IDP Reporter includes three predefined dashboards:

- Applications—Contains 4 reports related to application volume statistics.
- Attacks View—Contains 4 reports related to intrusion detection.
- Performance—Contains 3 reports related to resource utilization and throughput.

Use the DashBoards list box to toggle between dashboards. Figure 3 on page 16 shows the DashBoards list box.

Figure 3: DashBoards List Box








- Related Documentation**
- Accessing the IDP Reporter User Interface on page 5
 - Creating Customized Dashboards on page 25

Using Filters and Display Options with Dashboards

You can use Panel Menu utilities to customize the dashboard panel content. Table 8 on page 17 describes these utilities.

Table 8: Panel Menu Utilities

Utility Icon/Name	Description
Panel Menu 	Displays a menu of tools you can use to modify panel content. The Panel Menu icon appears on each panel next to the panel report title.
Zoom 	Displays the panel in a new browser window.
Snap 	Displays a snapshot of the active panel in a new browser window.
Modify Report Contents 	Displays the Modify Dashboard View dialog box, where you select a report to appear in the panel.
Display Type	<p>Sets a graph type from among the following formats:</p> <ul style="list-style-type: none"> • Table • Bar • Tape • Pie • Horizontal • Area • More <p>If you select More, a new window appears where you can select Bar, 3DBar, 2DLine, 3DLine, 2DArea, 3DArea, Horizontal, Radar, Gauge, PIE, and 3DPIE.</p> <p>Available types depend on the kind of data available for that query. For single row data, only line graph can be displayed irrespective of the graph option selected.</p>
Query By	<p>Select one of the following options:</p> <ul style="list-style-type: none"> • Default—Displays the default aggregation. • Day—Displays metrics aggregated by day.
Show Legend	Includes graph legends. Graph legends are a key to the data plotted on the graph. For pie charts, the graph legend is shown only if the number of records present in the selected query are fewer than 24. For other graph types, the graph legend is shown only if the number of entries of data elements related to the selected query are fewer than 12.
Local Filter 	<p>Displays the Local Filters dialog box. Local filters behave the same for both the Dashboard view and the Report view.</p> <p>NOTE: The Local Filters utility is visible only when there are supported filter elements; reports must contain at least one column on which the report can be filtered.</p>



NOTE: You cannot use date filters (Calendar icon) with the Dashboard view. You can use date filters with the Report view.

Related Documentation

- Applying Local Filters on page 21

Displaying Reports

You can display a predefined report instead of a dashboard in the primary display pane.

Figure 4 on page 18 shows the Report View.

Figure 4: Report View

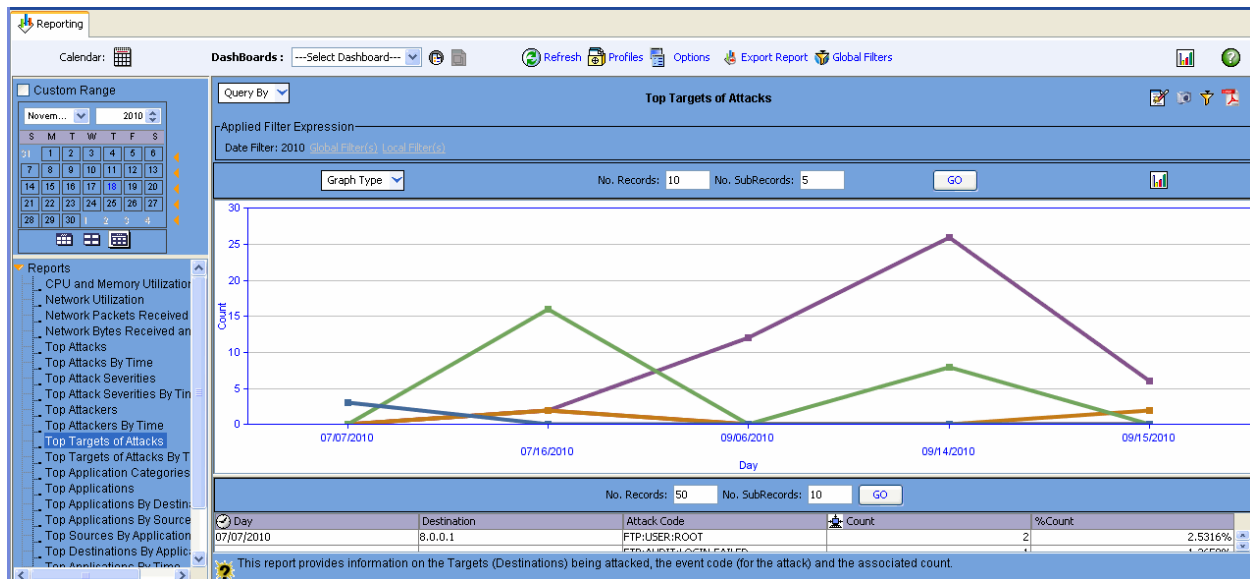


Table 9 on page 19 describes Report View frames.

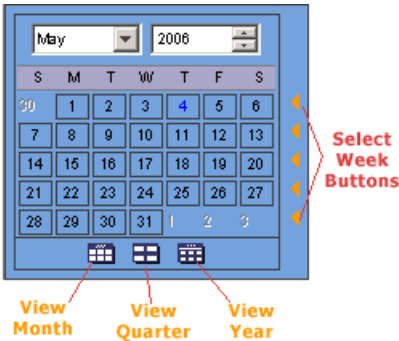
Table 9: Report View Frames

Frame	Description
-------	-------------

Calendar



Figure 5: Calendar Frame



Enables you to apply time filters across reports.

To display the calendar frame, click the **Calendar** icon.

Select a month and year from the top of the calendar.

Press the Shift-click key combination to select a contiguous date range. Press the Ctrl-click key combination to select noncontiguous days.

Use the Select Week buttons along the right-side of the calendar to select the corresponding week.

Use the View Month, View Quarter, and View Year buttons along the bottom to select the corresponding interval.



Table of Contents	Lists predefined reports.
Report	<p>Displays the report selected from the table of contents.</p> <p>All reports include a title, a short description at the bottom of the frame, identification of filters that have been applied (such as a date filter or global filter), and a table or graph of results.</p> <p>Report attributes are color-coded for easy comparison and analysis. A graph legend defines the color-coding.</p>

- Related Documentation
- Modifying Reports on page 19
 - Applying Local Filters on page 21
 - Using the Drilldown Feature on page 22

Modifying Reports

Table 10 on page 20 describes options provided to modify the content and display of reports.

Table 10: Report Filters and Display Options

Option	Description
Query By	Toggles between By Default or By Day (the default aggregation or a aggregation by day).
Include Trends	<p>Records the trend of specific current and previous events happening at the devices.</p> <p>Trends show the number of times a particular event type occurred over a period of time. When you include trends, the application usage manager appends the report with the following columns:</p> <ul style="list-style-type: none"> • Today's Count • Yesterday's Count • Last Seven Days • Current Month
Display/Hide Filter List	Shows or hides the applied filters. This icon is visible only when filters are applied on this query.
Snap 	Displays a snapshot of the active report in a new browser window.
Local Filter 	Displays the Local Filters dialog box.
Export to PDF	Exports the active report to a PDF file.
Graph Type	<p>Selects a graph type from among the following formats:</p> <ul style="list-style-type: none"> • Bar • Pie • Tape • Horizontal • Area • Stacked Horizontal • Stacked Vertical • More <p>If you select More, a new window appears where you can select Bar, 3DBar, 2DLine, 3DLine, 2DArea, 3DArea, Horizontal, Radar, Gauge, PIE, and 3DPIE.</p> <p>The graph type available depend on the type of data for the report. For single row data, only line graph can be displayed.</p>
Show Legend	Shows graph legends. Graph legends are a key to the data plotted on the graph. For pie charts, the graph legend is shown only if the number of records present in the selected query are fewer than 24. For other graph types, the graph legend is shown only if the number of entries of data elements related to the selected query are fewer than 12.
No. Records and No. Subrecords	Specifies the maximum number of records and subrecords that you want to view in your selected report.
Show/Hide Graph	Hides or shows a graph. By default, the report frame is divided in two: a graph in the upper region and a table in the lower region.

- Related Documentation**
- Applying Local Filters on page 21
 - Using the Drilldown Feature on page 22

Applying Local Filters

Unlike a global filter, which applies to all reports, a local filter applies only to the instant report. A filter includes or excludes matching records.

To apply local filters:

1. Click a report title in the table of contents frame to display the report in the report frame.
2. Click the **Local Filter** icon to display the Local Filters dialog box.
3. Select the **Disable Global Filters** check box to avoid unexpected behavior.
4. Specify whether to show the report in graph form.



NOTE: Not all reports include graphs.

5. Specify a maximum number of records and subrecords to display.
6. Configure filter elements:
 - In the Filters List group, select the column on which to filter.
 - Specify whether the filter includes or excludes matching values.
 - Use the filter details text box to add a regular expression to match values.
 - Use the text box with the **Add** and **Remove** buttons to build regular expressions.
 - Use the **Save Filter** and **Remove Filter** buttons to manage the filter list.
7. Click **Save**.



TIP: You can create a set of local filters that may be of interest and then use the No Filters check box (within the Local Filters dialog box) to toggle between the filtered and unfiltered view of the report).

Observe the following guidelines when you use regular expressions in filters:

- To filter the regular expression as it is in the reports, add the prefix ^ (caret symbol) and suffix \$ (dollar symbol) before and after the regular expression. For example, if you want to filter event code 8690, enter **^8690\$** in the regular expression text box to display identical event codes in the report. Without these symbols, all the event codes that contain 8690 in them will be displayed.
- To filter event attributes, use the caret symbol (^) as a prefix to any regular expression that starts with the common value as entered in the regular text box. For example, if you want to filter all the event codes starting with 193, enter **^193** in the regular expression text box to display all the event codes starting with 193 in the report. Without these symbols, all the event codes that contain 193 anywhere in them will be displayed.
- To specify a range to be filtered in the report, like 30-40 KB, use the prefix \ (backslash symbol) before the - (hyphen). For example, if you want to consider all events that recorded bandwidth in the 30-40 KB range, type **30\-40 KB**, and all the events that fall within the 30-40 KB bandwidth range will be displayed in the instant report.
- To filter an expression that contains a comma (,) in it, specify a period (.) instead of a comma in the regular expression.

**Related
Documentation**

- [Modifying Reports on page 19](#)
- [Using the Drilldown Feature on page 22](#)

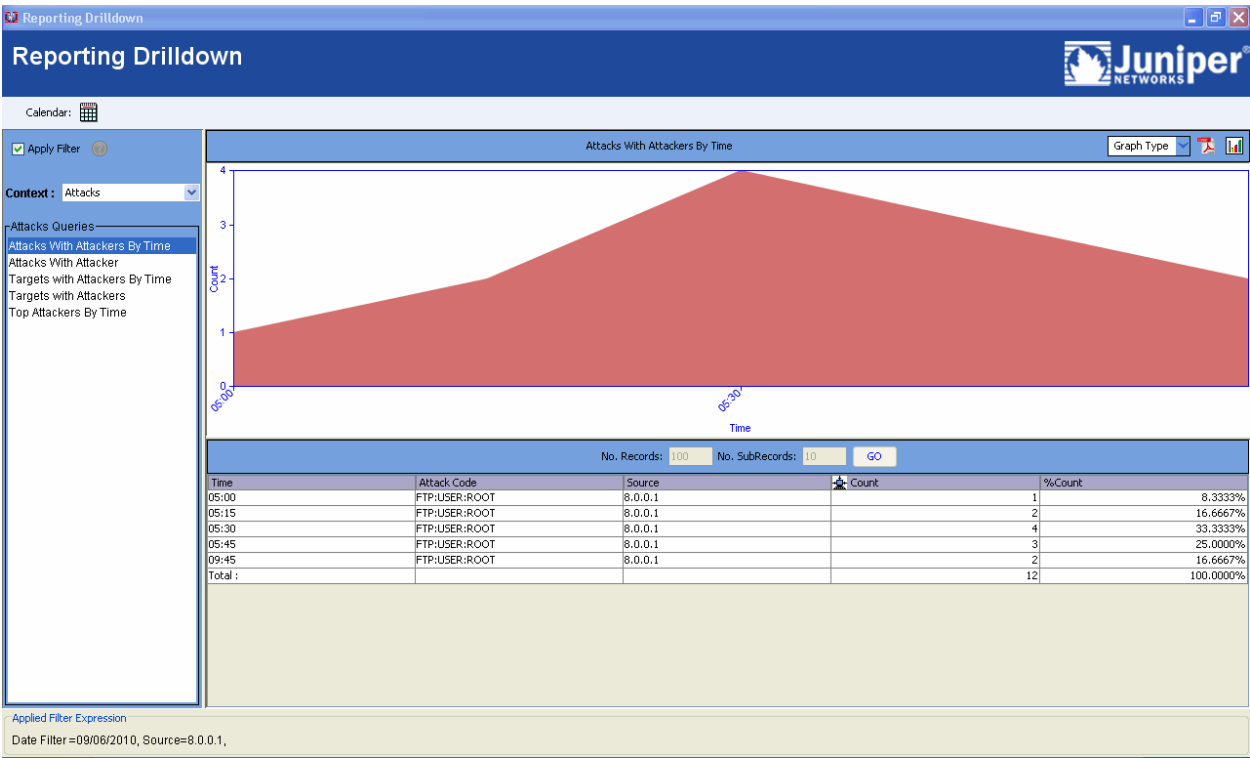
Using the Drilldown Feature

The rows in Report tables includes columns displaying matching properties and counts. You can “drill down” to display a new view of the report, filtered for the value you select, in a new browser window.

To drill down, right-click the value of interest in the table record and select **Reporting Drilldown**.

Figure 6 on page 23 shows the Reporting Drilldown window.

Figure 6: Reporting Drilldown Window



Depending on the record data, you might see two additional drilldown options when you right-click a record. Table 11 on page 23 describes these additional options.

Table 11: Report Table Drilldown Options

Option	Description
Workbench	Shows the reporting values for the single record in a new browser window. For example, you can use the workbench to examine attack details.
WHOIS	Displays the WHOIS report for the IP address in a new browser window. This option appears only if a report record includes an IP address attribute.

- Related Documentation
- Modifying Reports on page 19
 - Applying Local Filters on page 21

Exporting Reports

You can export reports into PDF or HTML files.

To export a report, click the Export Report icon in the toolbar pane and complete the export report options. Figure 7 on page 24 shows the Export Report dialog box. Table 12 on page 24 describes export options.

Figure 7: Export Report Dialog Box

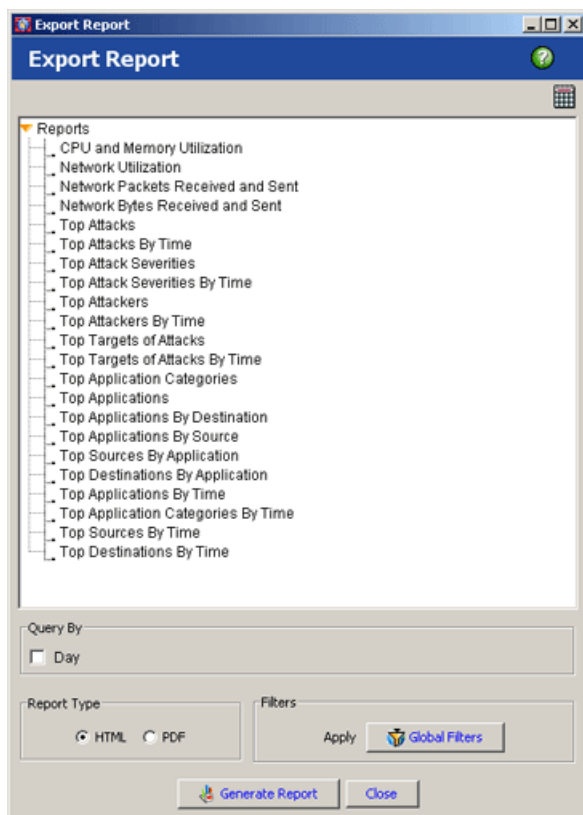


Table 12: Export Report Options

Option	Description
Reports	Select the reports to include in the export.
Query By	Specify whether you want to order by day or use the default query (which is not ordered by day).
Report Type	Specify whether you want the report in HTML or PDF format. HTML reports appear in a new browser window. For PDF reports, the browser prompts you to download the generated file.
Filters	If desired, apply global filters before generating the report.

Related Documentation

- Creating a Profile Job on page 31

CHAPTER 5

Creating Customized Dashboards

This chapter includes the following topics:

- Creating Customized Dashboards on page 25

Creating Customized Dashboards

- Custom Dashboard Overview on page 25
- Creating Dashboards on page 26
- Adding a Panel to a Dashboard on page 26
- Redesigning Dashboard Panels on page 27
- Modifying Panel Content on page 28

Custom Dashboard Overview

A *dashboard* is a user interface that organizes and presents complex information in a way that can be readily comprehended.

The dashboard management tools include a drop-down list of default and user-created dashboards, as well as toolbar button utilities to create new dashboards, change the default dashboard, copy dashboard objects, and toggle to dashboard design mode.

Figure 8 on page 25 shows dashboard management tools.

Figure 8: Dashboard Management Tools



Table 13 on page 25 summarizes these tools.

Table 13: Summary of Dashboard Management Tools







Utility Icon/Name	Description
Create New Dashboard 	Creates customized dashboards.

Table 13: Summary of Dashboard Management Tools (*continued*)

Utility Icon/Name	Description
 Set Current Dashboard as Default	Sets the custom dashboard that you created to display the information you need most and would want to monitor regularly as the default view.
 Restore Factory Default View	Restores the factory default view.
 Delete Dashboard	Deletes the active dashboard
 Copy Dashboard	Saves a copy of the current dashboard. By default, the name of the copy is <i>Copy_of_dashboard-name</i> . You can enter the name of your choice in the dialog box.
 Toggle Design/Run Mode	Toggles between design mode, where you can customize the look-and-feel and content of dashboard panels, and run mode, where you display reports.

Creating Dashboards

You can create a new dashboard and add it to the DashBoards drop-down list.

To create a new dashboard:

1. Click the **Create New Dashboard** icon to display the Create Dashboard dialog box.
2. Type a name in the Dashboard Name box. For example, type **MY_Dashboard**.
3. Use Shift-click and Ctrl-click to select the report titles that you want to see in the new dashboard. Click **OK**.

The dashboard is saved and displayed in the DashBoards drop-down list.

4. Select **MY_Dashboard** from the DashBoards list to display the new dashboard.

To set this dashboard as your default selection, select the dashboard from the list and click the **Set Current Dashboard as Default** icon.

To return to the factory default dashboard, click the **Restore Factory Default View** icon.

Adding a Panel to a Dashboard

Dashboards are composed of a number of panels. A *panel* includes a report and utilities to customize and make use of the report.

To add panels to your dashboard:

1. Click the **Toggle Design/Run Mode** icon to toggle to design mode.
2. Click the **Add Panel** icon to display the Add Dashboard Panel dialog box.

- 3. Select the desired report.
- 4. Click **OK**.











Redesigning Dashboard Panels

You can customize the layout of default and user-created dashboards. In design mode, you can resize, modify, delete, and add panels.

To activate design mode, click the **Toggle Design/Run Mode** icon.

Table 14 on page 27 describes design mode tools.

Table 14: Summary of Design Mode Tools

Utility Icon/Name	Description
Add a Panel 	Displays the Add Dashboard Panel dialog box.
Save Dashboard 	Saves changes you have made in design mode.
Layout Design Tools <ul style="list-style-type: none">• Resize width • Resize height • Resize both • Left align • Right align • Top align • Bottom align 	To change panel properties with a layout design tool: <ol style="list-style-type: none">1. Press the Ctrl key and click the panels that you want to resize or realign.2. Continue to press the Ctrl key and click the panel that you want to use as a model.3. Click the desired tool. For example, click the Resize Width icon. <p>All panels are resized according to the width of the last panel selected.</p>
Panel Menu 	Displays a menu of tools you can use to modify panel content.



NOTE: If your current selection is the default dashboard, then the **Set Current Dashboard as Default** icon appears dimmed and unavailable. You cannot resize or realign the panels on the default dashboard.

Modifying Panel Content

You modify panel content for a custom dashboard in the same way you modify panel content for the default dashboard.

To modify panel content:

1. Click the **Panel Menu** icon that appears near the panel report title to display panel design menus.
2. Use the Panel Menu utilities to customize the panel content. Table 15 on page 28 describes these utilities.

Table 15: Panel Menu Utilities








Utility Icon/Name	Description
Panel Menu 	Displays a menu of tools you can use to modify panel content. The Panel Menu icon appears on each panel next to the panel report title.
Zoom 	Displays the panel in a new browser window.
Snap 	Displays a snapshot of the active panel in a new browser window.
Modify Report Contents 	Displays the Modify Dashboard View dialog box, where you select a report to appear in the panel.
Display Type 	Sets a graph type from among the following formats: <ul style="list-style-type: none"> • Bar • Pie • Tape • Horizontal • Area • Stacked Horizontal • Stacked Vertical • More If you select More , a new window appears where you can select Bar, 3DBar, 2DLine, 3DLine, 2DArea, 3DArea, Horizontal, Radar, Gauge, PIE, and 3DPIE. Available types depend on the kind of data available for that query. For single row data, only line graph can be displayed irrespective of the graph option selected.
Query By 	Select one of the following options: <ul style="list-style-type: none"> • Default—Displays the default aggregation. • Day—Displays metrics aggregated by day. • Device—Displays metrics aggregated by device.

Table 15: Panel Menu Utilities (*continued*)

Utility Icon/Name	Description
Show Legend	Includes graph legends. Graph legends are a key to the data plotted on the graph. For pie charts, the graph legend is shown only if the number of records present in the selected query are fewer than 24. For other graph types, the graph legend is shown only if the number of entries of data elements related to the selected query are fewer than 12.
Local Filter	Displays the Local Filters dialog box.
	NOTE: The Local Filters utility is visible only when there are supported filter elements; reports must contain at least one column on which the report can be filtered.

Related Documentation

- [Displaying Dashboards on page 15](#)

CHAPTER 6

Using Profiles to Schedule Reporting

This chapter includes the following topics:

- Creating a Profile Job on page 31
- Editing a Profile on page 42
- Copying a Profile on page 43
- Deleting a Profile on page 43

Creating a Profile Job

- Profile Job Overview on page 31
- Creating a New Profile on page 31

Profile Job Overview

A *profile* defines a job that generates and delivers reports that you select according to a schedule that you define.

You can use the Profile Manager to create, edit, copy, and delete profiles.

Creating a New Profile

To create a profile:

1. In the toolbar, click the **Profiles** icon to display the Profile Manager.
2. Click **New Profile** to display the first page of the New Profile wizard—the date range page.

Figure 9: Profile: Date Range

New Profile

Profile Name:

Date Range

☐ All Dates (All Dates in the current month.)

☒ Specify Date

Start Date: (MM/DD/YYYY)

End Date: (MM/DD/YYYY)

☐ Range:

Table 16 on page 32 describes the settings on this page.

Table 16: Profile Wizard: Date Range Page

Setting	Description
Profile Name	Specify a unique name (special characters are not permitted).

Table 16: Profile Wizard: Date Range Page (*continued*)

Setting	Description
Date Range	All Dates —Include events from all dates in the current month.
	Specify Date —Use the controls to set a start date and end date.
	Range —Select one of the following predefined periods:
	<ul style="list-style-type: none">• View quarter• Today• Yesterday• Last seven days• This week• Last 15 days• Last 30 days• Previous month• This month

Complete the settings and click **Next** to continue to the Scheduler Tasks and Filter Template page.

The image shows a 'New Profile' dialog box with two main sections: 'Scheduler' and 'Filter Template'. The 'Scheduler' section has a list box containing 'Weekly' and three buttons: 'Add', 'Edit', and 'Delete'. The 'Filter Template' section has a list box with '[None]' and 'Critical' (selected), and the same three buttons. At the bottom are 'Previous', 'Next', and 'Cancel' buttons.

New Profile

Scheduler

Scheduler Tasks

Weekly

Add Edit Delete

Filter Template

Select a filter template to apply from the list.

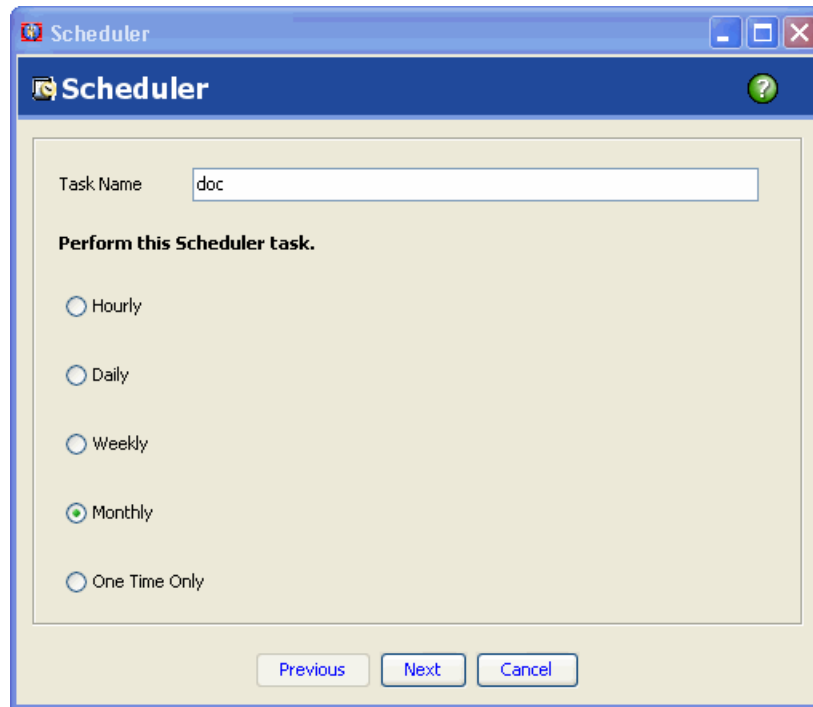
[None]
Critical

Add Edit Delete

Previous Next Cancel

3. Complete schedule details (required) and filter details (optional):
 - a. Under Scheduler Tasks, click the **Add** button to display the Scheduler dialog box.

Figure 10: Profile: Scheduler Page



Scheduler

Task Name

Perform this Scheduler task.

☐ Hourly

☐ Daily

☐ Weekly

☒ Monthly

☐ One Time Only

Complete the schedule frequency and execution time details.

- b. Under Filter Template, click the **Add** button to display the Filter Template dialog box.

Figure 11: Filter Template Dialog Box

Filter Templates

Filter Template

Template Name

Table Details

Records : Sub Records :

Filters List

- Application Category
- Application
- Attack Code
- Destination
- Severity
- Source
- Time Range

Application Category Details

Application Category

Use Regular Expression. E.g.

- [0-9a-zA-Z]+ -- matches any alphanumeric token
- domain\\john.* -- matches any user-name with prefix 'john'
- ^http\$ -- matches the complete token: http
- \\[Reference -- escape the square brace([)]

Add Remove

Note : Click Save Filter to save your settings.

Filter	Type Of Filter	Value(s)
--------	----------------	----------

Save Cancel

Complete filter settings (if any). For guidelines, see “Applying Local Filters” on page 21.

Click **Next** to continue to the Report settings page.

Figure 12: Profile Wizard: Report Style Page

New Profile

Report Style

Format: HTML Report

Template: Standard

Language: English

Organization: Juniper Networks (Used for PDF Report.)

Logo File: logo.gif

Buttons: Create, Delete, Browse

Query By

☐ Day

Buttons: Previous, Next, Cancel

4. Configure report style settings. Table 17 on page 37 provides guidelines for completing report style settings.

Table 17: Profile: Report Style Settings

Setting	Procedure
Format	Specify whether you want the report in HTML or PDF format.
Template	<p>Select from a number of preconfigured report styles that have different fonts and colors or create and select a new template.</p> <p>Preconfigured styles include Cool, Vintage, Cascade, Serene Arcade, Sand Ribbon, Wise Monk, Capri Blue, Glass Block, Trendy, Standard, and Orange Spice. Template options are applicable for HTML reports only.</p> <p>Alternatively, click Create and use the resulting dialog box to define and save your own template.</p>
Organization	Specify the organization or company name to appear in the report.

Table 17: Profile: Report Style Settings (*continued*)

Setting	Procedure
Logo File	Specify the absolute path to the logo file to be displayed in a report. The default path is /usr/ldp/reporter. To display a different logo, specify a different absolute path.

Click **Next** to continue to the Report Template page.

Figure 13: Profile Wizard: Report Template Page

The screenshot shows the 'New Profile' window. The title bar says 'New Profile'. The header bar also says 'New Profile' and has a help icon. The main content area is divided into two sections. The top section, 'Table Details', contains two input fields: 'Records : 50' and 'Sub Records : 5'. Below this is a section titled 'Select a report template from the list'. This section contains a list box with one item, 'Exec View'. To the right of the list box are three buttons: 'New Report', 'Edit Report', and 'Delete'. At the bottom of the window are three buttons: 'Previous', 'Next', and 'Cancel'.

5. Configure report template settings. Table 18 on page 38 provides guidelines for completing report template settings.

Table 18: Profile: Report Template Settings

Setting	Procedure
No. Records and Subrecords	Specify a number of records and subrecords for report tables and graphs.

Table 18: Profile: Report Template Settings (*continued*)

Setting	Procedure
Report Template	Select a template from the report template list or click New to create one. A “report template” is a set of reports to include in the scheduled job. Figure 14 on page 39 shows the New Report page.

Figure 14: Profile Wizard: New Report Page

New Report

Report Name

Node	Selected	Display Type	By Day
▼ Reports	<input checked="" type="checkbox"/>	Table	<input checked="" type="checkbox"/>
CPU and Memory Utilization	<input checked="" type="checkbox"/>	Table	
Network Utilization	<input checked="" type="checkbox"/>	Table	
Network Packets Received and Sent	<input checked="" type="checkbox"/>	Table	
Network Bytes Received and Sent	<input checked="" type="checkbox"/>	Table	
Top Attacks	<input checked="" type="checkbox"/>	Table	<input checked="" type="checkbox"/>
Top Attacks By Time	<input checked="" type="checkbox"/>	Table	
Top Attack Severities	<input checked="" type="checkbox"/>	Table	<input checked="" type="checkbox"/>
Top Attack Severities By Time	<input checked="" type="checkbox"/>	Table	
Top Attackers	<input checked="" type="checkbox"/>	Table	<input checked="" type="checkbox"/>
Top Attackers By Time	<input checked="" type="checkbox"/>	Table	
Top Targets of Attacks	<input checked="" type="checkbox"/>	Table	<input checked="" type="checkbox"/>
Top Targets of Attacks By Time	<input checked="" type="checkbox"/>	Table	
Top Application Categories	<input checked="" type="checkbox"/>	Table	<input checked="" type="checkbox"/>
Top Applications	<input checked="" type="checkbox"/>	Table	<input checked="" type="checkbox"/>
Top Applications By Destination	<input checked="" type="checkbox"/>	Table	<input checked="" type="checkbox"/>
Top Applications By Source	<input checked="" type="checkbox"/>	Table	<input checked="" type="checkbox"/>
Top Sources By Application	<input checked="" type="checkbox"/>	Table	<input checked="" type="checkbox"/>
Top Destinations By Application	<input checked="" type="checkbox"/>	Table	<input checked="" type="checkbox"/>
Top Applications By Time	<input checked="" type="checkbox"/>	Table	
Top Application Categories By Time	<input checked="" type="checkbox"/>	Table	
Top Sources By Time	<input checked="" type="checkbox"/>	Table	
Top Destinations By Time	<input checked="" type="checkbox"/>	Table	

Save Cancel

Click **Next** to continue to the Report Publication page.

Figure 15: Profile Wizard: Report Publication Page

New Profile

Save Report

Save As: [Grammar](#)

☐ Mail To:

Cc:

Subject:

Message:

To e-Mail Reports: [Configure SMTP](#) Server

☐ FTP ☐ Use Secure FTP ☐ Use Passive Mode

Host Name:

User Name:

Password:

[Previous](#) [Finish](#) [Cancel](#)

6. Complete publication settings. Table 19 on page 41 provides procedures for alternative publication methods.

Table 19: Profile: Report Publication Settings

Destination	Procedure
Save As	<p>Configure a path-naming convention for generated report files:</p> <ol style="list-style-type: none"> Click Grammar to display the Grammar dialog box. Use the browse button to set the report path. The path for the folder you select appears in the Report Path box. Specify a prefix for report filenames in the Prefix box. Follow the "Nomenclature for date format" shown in the dialog box to specify a date variable in the Date Format box. <p>Note: Output files will be distinguished by the date format variable. For example, suppose you specify a prefix IDP and a date format %m%-%d%-%y%. Suppose further that the profile is scheduled to produce a daily report in HTML format. On December 22, 2010, IDP Reporter would generate a report with filename IDP122110.htm. On December 22, 2010, IDP Reporter would generate a report with filename IDP122210.htm.</p> <ol style="list-style-type: none"> Click Set.
E-mail Distribution	<p>To configure e-mail distribution for generated reports:</p> <ol style="list-style-type: none"> Select Mail To. Address the mail: <ul style="list-style-type: none"> Specify e-mail addresses for recipients (use commas to separate the e-mail addresses). Optionally, specify a cc: list. Type a subject line and introductory message. <p>Configure the SMTP server:</p> <ol style="list-style-type: none"> Click Configure SMTP. Use the controls to configure the following SMTP settings: <ul style="list-style-type: none"> Server—Specify the host and fully qualified domain name for the SMTP server. UserID—Specify the user name of the SMTP administrative user. SMTP Server requires authentication—If required, select this option and complete the resulting prompts for authentication information. Optionally, use the Test SMTP controls to send yourself a test message. Click Save.
FTP Distribution	<p>To publish reports to an FTP server:</p> <ol style="list-style-type: none"> Select the FTP check box and enter the host name, user name, and password. (The host machine must be running the FTP service.) Optionally, select secure FTP or passive mode options if they pertain to your FTP server configuration.
	<ol style="list-style-type: none"> Click Finish.

- Related Documentation**
- Editing a Profile on page 42
 - Copying a Profile on page 43
 - Deleting a Profile on page 43

Editing a Profile

To edit a profile:

1. From the toolbar, click the **Profiles** icon to display the Profile Manager.
2. Select a profile and click **Edit Profile**.

Figure 16 on page 42 shows the edit page.

Figure 16: Edit Profile Page

The screenshot shows a web application window titled "Edit Profile : walkthrough". The main heading is "Edit Profile". Below the heading is a toolbar with five icons: "Profile", "Date Range", "Reports", "Filter Templates", and "Scheduler". The "Profile" icon is selected. The main content area has a label "Profile Name" followed by a text input field containing the text "walkthrough". At the bottom of the window are two buttons: "Save" and "Cancel".

3. Use the tabs and controls to modify the configuration settings as needed.
4. Click **Save**.

**Related
Documentation**

- Creating a Profile Job on page 31

Copying a Profile

To copy a profile:

1. From the toolbar, click the **Profiles** icon to display the Profile Manager.
2. Select a profile and click **Copy Profile**.

**Related
Documentation**

- Creating a Profile Job on page 31

Deleting a Profile

To delete a profile:

1. From the toolbar, click the **Profiles** icon to display the Profile Manager.
2. Select a profile and click **Delete Profile**.

**Related
Documentation**

- Creating a Profile Job on page 31

PART 2

Index

- Index on page 47

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