

Configuring Accounting Options (NSM Procedure)

An accounting profile represents common characteristics of collected accounting data. You can configure multiple accounting profiles using this option. See the following topics:

- Configuring Class Usage Profiles (NSM Procedure) on page 1
- Configuring a Log File (NSM Procedure) on page 2
- Configuring the Filter Profile (NSM Procedure) on page 3
- Configuring the Interface Profile (NSM Procedure) on page 4
- Configuring the Policy Decision Statistics Profile (NSM Procedure) on page 5
- Configuring the MIB Profile (NSM Procedure) on page 6
- Configuring the Routing Engine Profile (NSM Procedure) on page 7

Configuring Class Usage Profiles (NSM Procedure)

You can configure the class usage profile to collect statistics for particular source and destination classes.

To configure class usage profiles in NSM:

1. In the NSM navigation tree, select **Device Manager > Devices**.
2. Click the **Device Tree** tab, and then double-click the device to select it.
3. Click the **Configuration** tab. In the configuration tree, expand **Accounting Options**.
4. Select **Class Usage Profile**.
5. Add or modify the settings as specified in Table 1.
6. Click one:
 - OK—Saves the changes.
 - Cancel—Cancels the modifications.

Table 1: Class Usage Profile Configuration Details

Task	Your Action
Configure the class usage profile.	<ol style="list-style-type: none">1. Click Add new entry next to Class Usage Profile.2. Expand class-usage-profile.3. In the Name box, enter the name of the destination class profile.4. In the Comment box, enter the comment for the class usage profile.5. In the File box, enter the name of the log file.6. From the Interval list, select the amount of time between each collection of statistics. Range: 1 through 1048576 minutes Default: 30 minutes7. Click Destination Classes next to class-usage-profile and select one of the following:<ul style="list-style-type: none">■ destination-classes—To configure the class usage profile to filter by source classes.■ source-classes—To configure the class usage profile to filter by destination classes.8. In the Name box, enter the name of the source classes or the destination classes.9. In the Comment box, enter the comment.

Configuring a Log File (NSM Procedure)

An accounting profile specifies what statistics should be collected and written to a log file. You can configure an accounting-data log file using this option.

To configure a log file in NSM:

1. In the NSM navigation tree, select **Device Manager > Devices**.
2. Click the **Device Tree** tab, and then double-click the device to select it.
3. Click the **Configuration** tab. In the configuration tree, expand **Accounting Options**.
4. Select **File**.
5. Add or modify the settings as specified in Table 2.
6. Click one:
 - **OK**—Saves the changes.
 - **Cancel**—Cancels the modifications.

Table 2: Log File Configuration Details

Task	Your Action
Configure an accounting-data log file.	<ol style="list-style-type: none"> 1. Click Add new entry next to File. 2. In the Name box, enter the filename. 3. In the Comment box, enter the comment for the file. 4. In the Size box, enter the maximum size of each log file in the range from 262144 through 1073741824 bytes. 5. From the Files list, select the maximum number of files. Range: 1 through 1000 Default : 10 6. From the Transfer Interval list, select the time the file remains open and receives new statistics before it is closed and transferred to an archive site. Range: 5 through 2880 minutes Default: 30 minutes 7. In the Start Time box, enter the start time for transfer of an accounting-data log file in the format <i>yyyy-mm-dd.hh:mm</i>
Configure archive sites.	<ol style="list-style-type: none"> 1. Click Add new entry next to Archive Sites. 2. In the Name box, enter the site name. 3. In the Comment box, enter the comment. 4. In the Password box, enter the password.

Configuring the Filter Profile (NSM Procedure)

A filter profile specifies error and statistics information collected and written to a file. A filter profile must specify counter names for which statistics are collected.

To configure the filter profile in NSM:

1. In the NSM navigation tree, select **Device Manager > Devices**.
2. Click the **Device Tree** tab, and then double-click the device to select it.
3. Click the **Configuration** tab. In the configuration tree, expand **Accounting Options**.
4. Select **Filter Profile**.
5. Add or modify the settings as specified in Table 3.
6. Click one:
 - OK—Saves the changes.
 - Cancel—Cancels the modifications.

Table 3: Filter Profile Configuration Details

Task	Your Action
Configure a filter profile.	<ol style="list-style-type: none">1. Click Add new entry next to Filter Profile.2. Expand filter-profile.3. In the Name box, enter the filename.4. In the Comment box, enter the comment for the file.5. In the File box, enter the name of the file.6. From the Interval list, select the amount of time between each collection of statistics. Range: 1 through 1048576 minutes Default: 30 minutes
Configure the counters.	<ol style="list-style-type: none">1. Click Counters next to filter-profile.2. Click Add new entry next to Counters.3. In the Name box, enter the site name.4. In the Comment box, enter the comment.

Configuring the Interface Profile (NSM Procedure)

An interface profile specifies the information collected and written to a log file. You can configure a profile to collect error and statistic information for input and output packets on a particular physical or logical interface.

To configure the interface profile in NSM:

1. In the NSM navigation tree, select **Device Manager > Devices**.
2. Click the **Device Tree** tab, and then double-click the device to select it.
3. Click the **Configuration** tab. In the configuration tree, expand **Accounting Options**.
4. Select **Interface Profile**.
5. Add or modify the settings as specified in Table 4.
6. Click one:
 - **OK**—Saves the changes.
 - **Cancel**—Cancels the modifications.

Table 4: Interface Profile Configuration Details

Task	Your Action
Configure an interface profile.	<ol style="list-style-type: none"> 1. Click Add new entry next to Interface Profile. 2. Expand interface-profile. 3. In the Name box, enter the name of the log file. 4. In the Comment box, enter the comment for the interface profile. 5. In the File box, enter the name of the log file. 6. From the Interval list, select the amount of time between each collection of statistics. Range: 1 through 2880 minutes Default: 30 minutes
Configure the statistics to be collected in an accounting-data log file for an interface.	<ol style="list-style-type: none"> 1. Click Fields next to interface-profile. 2. In the Comment box, enter the comment. 3. Select the corresponding field name: <ul style="list-style-type: none"> ■ Input Bytes—Input bytes ■ Output Bytes—Output bytes ■ Input Packets—Input packets ■ Output Packets—Output packets ■ Input Errors—Generic input error packets ■ Output Errors—Generic output error packets ■ Input Multicast—Input packets arriving by multicast ■ Output Multicast—Output packets sent by multicast ■ Input Unicast—Input unicast packets ■ Output Unicast—Output unicast packets ■ Unsupported Protocol—Log Packets of unsupported protocols ■ Rpf Check Bytes—Number of bytes that have failed the RPF check ■ Rpf Check Packets—Number of packets that have failed the RPF check ■ Rpf Check6 Bytes—Log number of bytes that have failed the IPv6 reverse-path-forwarding check ■ Rpf Check6 Packets—Log number of packets that have failed the IPv6 reverse-path-forwarding check

Configuring the Policy Decision Statistics Profile (NSM Procedure)

The policy decision statistics profile collects the statistical records and formats for the local policy decision function (L-PDF) and logs them to specified file. The `acl-fields` under the policy decision statistics profile specifies the files according to which the statistics will be collected.

To configure the policy decision statistics profile in NSM:

1. In the NSM navigation tree, select **Device Manager > Devices**.
2. Click the **Device Tree** tab, and then double-click the device to select it.

3. Click the **Configuration** tab. In the configuration tree, expand **Accounting Options**.
4. Select **Policy Decision Statistics Profile**.
5. Add or modify the settings as specified in Table 5.
6. Click one:
 - OK—Saves the changes.
 - Cancel—Cancels the modifications.

Table 5: Policy Decision Statistics Profile Configuration Details

Task	Your Action
Configure policy decision statistics profile.	<ol style="list-style-type: none"> 1. Click Add new entry next to Policy Decision Statistics Profile. 2. Expand policy-decision-statistics-profile. 3. In the Name box, enter the name of the policy decision statistics profile. 4. In the Comment box, enter the comment for the policy decision statistics profile. 5. In the File box, enter the name of the log file.
Configure application awareness access list.	<ol style="list-style-type: none"> 1. Click Application Awareness Access List next to policy-decision-statistics-profile. 2. Select the name of the field: <ul style="list-style-type: none"> ■ address—Address of subscriber ■ application—Application ■ application-group—Application group ■ input-bytes—Input bytes ■ input-interface—Interface of subscriber ■ input-packets—Input packets ■ mask—Mask of subscriber ■ output-bytes—Output bytes ■ output-packets—Output packets ■ subscriber-name—Name of subscriber ■ timestamp—Timestamp of statistics record ■ vrf-name—VRF where subscriber resides

Configuring the MIB Profile (NSM Procedure)

The MIB profile collects MIB statistics and logs them to a file. The MIB profile specifies the SNMP operation and MIB object names for which statistics are collected.

To configure the MIB profile in NSM:

1. In the NSM navigation tree, select **Device Manager > Devices**.
2. Click the **Device Tree** tab, and then double-click the device to select it.

3. Click the **Configuration** tab. In the configuration tree, expand **Accounting Options**.
4. Select **MIB Profile**.
5. Add or modify the settings as specified in Table 6.
6. Click one:
 - OK—Saves the changes.
 - Cancel—Cancels the modifications.

Table 6: MIB Profile Configuration Details

Task	Your Action
Configure mib profile.	<ol style="list-style-type: none"> 1. Click Add new entry next to Mib Profile. 2. Expand mib-profile. 3. In the Name box, enter the name of the MIB statistics profile. 4. In the Comment box, enter the comment for the MIB profile. 5. In the File box, enter the name of the log file. 6. From the Interval list, select the amount of time between each collection of statistics. Range: 1 through 2880 minutes Default: 30 minutes 7. From the Operation list, select the name of the operation to use. You can select a get, get-next, or walk operation. Default: walk
Configure the name of the MIB objects for which MIB statistics are collected for an accounting-data log file.	<ol style="list-style-type: none"> 1. Click Object Names next to mib-profile. 2. In the Name box, enter the name of a MIB object. You can specify more than one MIB object name. 3. In the Comment box, enter the comment.

Configuring the Routing Engine Profile (NSM Procedure)

The Routing Engine profile collects Routing Engine statistics and logs them to a file. The Routing Engine profile specifies the fields for which statistics are collected

To configure the Routing Engine profile in NSM:

1. In the NSM navigation tree, select **Device Manager > Devices**.
2. Click the **Device Tree** tab, and then double-click the device to select it.
3. Click the **Configuration** tab. In the configuration tree, expand **Accounting Options**.
4. Select **Routing Engine Profile**.
5. Add or modify the settings as specified in Table 7.
6. Click one:

- OK—Saves the changes.
- Cancel—Cancels the modifications.

Table 7: Routing Engine Profile Configuration Details

Task	Your Action
Configure Routing Engine profile.	<ol style="list-style-type: none"> 1. Click Add new entry next to Routing Engine Profile. 2. Expand routing-engine-profile. 3. In the Name box, enter the name of the Routing Engine statistics profile. 4. In the Comment box, enter the comment for the routing engine profile. 5. In the File box, enter the name of the log file. 6. From the Interval list, select the amount of time between each collection of statistics. Range: 1 through 2880 minutes Default: 30 minutes
Configure the statistics to collect in an accounting-data log file for a Routing Engine.	<ol style="list-style-type: none"> 1. Click Fields next to routing-engine-profile. 2. In the Comment box, enter the comment. 3. Select the name of the field: <ul style="list-style-type: none"> ■ host-name—Hostname for the router. ■ date—Date, in <i>yyyymmdd</i> format. ■ time-of-day—Time of day, in <i>hhmmss</i> format. ■ uptime—Time since last reboot, in seconds. ■ cpu-load-1—Average system load over the last 1 minute. ■ cpu-load-5—Average system load over the last 5 minutes. ■ cpu-load-15—Average system load over the last 15 minutes. ■ Memory Usage—Memory usage in bytes. ■ Total Cpu Usage—Amount of CPU time used.

Published: 2009-08-23