

Chapter 6

Accounting Options Operational Mode Commands

Table 12 summarizes the command-line interface (CLI) commands you can use to monitor accounting options. In the table, the commands are grouped by functionality. In the remainder of this chapter, they are explained alphabetically.

Table 12: Commands for Monitoring and Managing Accounting Options

Task or Information to Monitor	Command
Display accounting statistics	show accounting profile on page 226
Display records	show accounting records on page 230

show accounting profile

Syntax	show accounting profile <i>profile-name</i>
Description	Display accounting profile information.
Options	<i>profile-name</i> —Name of accounting profile.
Privilege Level	view
Output Fields	Profile—Name of accounting profile.
	Sampling interval—Configured interval, in minutes, for statistic collection. The minimum interval is 1 minute. The range is from 1 through 2880 minutes. The default is 30 minutes.
	Profile Usage Count—Number of items configured for collecting accounting statistics.
	File information—Information about the accounting profile log, including: <ul style="list-style-type: none"> File—Name of accounting profile log. If no name is explicitly provided, the name of the accounting profile is used. All statistics files are placed in the /var/log directory. maximum size—Configured size. When size is exceeded, the log file closes and a new log file opens. The default size is 128 KB. maximum number—Configured maximum number of log files. It can be between 3 and 1000. The default number is 10. bytes written—Number of bytes written to the log file.
	Transfer Interval—Length of time (in minutes) the file remains open, receiving statistics before it is closed, transferred, and rotated. The range is from 15 minutes to 48 hours (2880 minutes). The default is 30 minutes. When either the time or the file size is exceeded, the file is closed and a new one opened, whether or not a transfer site is specified.
	Next Scheduled Transfer—Time at which next transfer occurs.
	Column Labels—Names of sampled statistics. List varies depending on configuration. <ul style="list-style-type: none"> profile-layout—List of data fields reported, in the order they appear in the output. epoch-timestamp—Number of seconds since the Epoch. interfaces—(For interface, filter, and destination class profiles) Name of the interfaces on which the filter is applied. filter-name—(For filter profiles) Name of the filter. counter-name—(For filter profiles) Name of the counter.

packet-count—(For filter and destination class profiles) Number of packets for the counter.

byte-count—(For filter and destination class profiles) Number of bytes for the counter.

input-bytes—(For interface profiles) Input bytes.

input-errors—(For interface profiles) Generic input error packets.

input-multicast—(For interface profiles) Input packets arriving by multicast.

input-packets—(For interface profiles) Input packets.

input-unicast—(For interface profiles) Input unicast packets.

output-bytes—(For interface profiles) Output bytes.

output-errors—(For interface profiles) Generic output error packets.

output-multicast—(For interface profiles) Output packets sent by multicast.

output-packets—(For interface profiles) Output packets.

output-unicast—(For interface profiles) Output unicast packets.

no-proto—(For interface profiles) Packets for unsupported protocol.

snmp-index—(For interface profiles) SNMP index.

destination-class-name—(For destination class profiles) Configured destination class name.

host name—(For Routing Engine profiles) Hostname for the router.

date-*yyyymmdd*—(For Routing Engine profiles) Date, in *YYYYMMDD* format.

timeofday-*hhmmss*—(For Routing Engine profiles) Time of day, in *HHMMSS* format.

uptime—(For Routing Engine profiles) Time since last reboot, in seconds.

cpu1min—(For Routing Engine profiles) Average system load over the last 1 minute.

cpu5min—(For Routing Engine profiles) Average system load over the last 5 minutes.

cpu15min—(For Routing Engine profiles) Average system load over the last 15 minutes.

Interface Name—Name of interfaces configured for this accounting profile.

Filter Name—Name of filter configured for this accounting profile.

Routing Engine stats—Routing Engine accounting profile.

Destination class Name—Name of destination class configured for this accounting profile.

Next Scheduled Collection—Time for next collection of statistics for the named interface.

Sample output: show accounting profile

```

user@host> show accounting profile if_prof
Profile if_prof
Sampling interval: 1 minute(s), Profile Usage Count: 2
File accounting_profile_stats: maximum size 1048576, maximum number 5, bytes written 2196
Transfer Interval: 15 minute(s), Next Scheduled Transfer: 2001-06-17-18:00:45
Column Labels:
profile-layout
epoch-timestamp
interface-name
snmp-index
input-bytes
output-bytes
input-packets
output-packets
input-unicast
output-unicast
input-multicast
output-multicast
no-proto
input-errors
output-errors
    
```

Interface Name	Next Scheduled Collection
fxp0.0	2001-06-18-18:00:30
fxp0	2001-06-18-18:01:00

Sample output: show accounting profile (for filter)

```

user@host> show accounting profile filter_profile
Profile filter_profile
Sampling interval: 1 minute(s), Profile Usage Count: 0
File accounting_profile_stats: maximum size 1048576, maximum number 5, bytes written 822
Transfer Interval: 15 minute(s), Next Scheduled Transfer: 2001-06-17-18:00:46
Column Labels:
profile-layout
epoch-timestamp
interfaces
filter-name
counter-name
packet-count
byte-count
    
```

Filter Name	Next Scheduled Collection
myfiltero	2001-06-03-04:32:59

Sample output: show accounting profile (for destination class)

```

user@host> show accounting profile dcu1
Profile dcu1
Sampling interval: 1 minute(s), Profile Usage Count: 0
File accounting_profile_stats: maximum size 1048576, maximum number 5, bytes written 901
Transfer Interval: 15 minute(s), Next Scheduled Transfer: 2001-06-17-18:00:46
Column Labels:
  profile-layout
  epoch-timestamp
  interface-name
  destination-class-name
  packet-count
  byte-count

```

Interface Name	Next Scheduled Collection
so-0/3/3	2001-06-03-04:34:00

Sample output: show accounting profile (for Routing Engine)

```

user@host> show accounting profile rep1
Profile rep1
Sampling interval: 1 minute(s), Profile Usage Count: 1
File accounting_profile_stats: maximum size 1048576, maximum number 5, bytes written 901
Transfer Interval: 15 minute(s), Next Scheduled Transfer: 2001-06-17-18:00:46
Column Labels:
  profile-layout
  epoch-timestamp
  hostname
  date-yyyyymmdd
  timeofday-hhmmss
  uptime
  cpu1min
  cpu5min
  cpu15min

```

Interface Name	Next Scheduled Collection
routing-engine-stats	2001-06-18-18:02:31

show accounting records

Syntax `show accounting records profile-name <since time> <utc_timestamp>`

Description Display accounting records for the specified accounting profile.

Options *profile-name*—Name of accounting profile.

since time—(Optional) Display accounting statistics since the specified time (YYYY-MM-DD-HH:MM:SS).

utc_timestamp—(Optional) Display timestamp in UTC format.

Privilege Level view

Output Fields Timestamp—Date and time of sample.

Interface Name—(For interface profiles) Name and SNMP index of interface for accounting profile.

Filter Name—(For filter profiles) Name of filter.

Interfaces—(For filter profiles) Name of interfaces for accounting profile.

Counter Name—(For filter profiles) Name of counter.

Destination Class—(For Destination Class profiles) Name of the destination class.

Input Bytes—(For interface profiles) Input bytes.

Output Bytes—(For interface profiles) Output bytes.

Input Packets—(For interface profiles) Input packets.

Output Packets—(For interface profiles) Output packets.

Input Unicast Packets —(For interface profiles) Input unicast packets.

Output Unicast Packets—(For interface profiles) Output unicast packets.

Input Multicast Packets—(For interface profiles) Input packets arriving by multicast.

Output Multicast Packets—(For interface profiles) Output packets sent by multicast.

Unsupported Protocol Packets—(For interface profiles) Packets for unsupported protocol.

Input Errors—(For interface profiles) Generic input error packets.

Output Errors—(For interface profiles) Generic output error packets.

Host Name—(For Routing Engine profiles) Hostname for the router.

Date—(For Routing Engine profiles) Date, in *YYMMDD* format.

Time of Day—(For Routing Engine profiles) Time of day, in *HHMMSS* format.

Uptime—(For Routing Engine profiles) Time since last reboot, in seconds.

Average CPU Load (1 min)—(For Routing Engine profiles) Average system load over the last 1 minute.

Average CPU Load (5 min)—(For Routing Engine profiles) Average system load over the last 5 minutes.

Average CPU Load (15 min)—(For Routing Engine profiles) Average system load over the last 15 minutes.

Sample Output

```

user@host> show accounting records if_prof
Timestamp: 2000-10-03-00:30:41, Interface Name: fxp0 (SNMP Index 1)
  32663634 Input Bytes
  3487515 Output Bytes
  158000 Input Packets
  33296 Output Packets
  158000 Input Unicast Packets
  33296 Output Unicast Packets
  0 Input Multicast Packets

```

```

0 Output Multicast Packets
0 Unsupported Protocol Packets
0 Input Errors
0 Output Errors

```

**Sample Output: show
accounting records
(with utc-timestamp)**

```

user@host> show accounting records if_prof utc_timestamp
Timestamp: 2001-06-18-18:01:00, Interface Name: fxp0 (SNMP Index 1)
32663634 Input Bytes
3487515 Output Bytes
158000 Input Packets
33296 Output Packets
158000 Input Unicast Packets
33296 Output Unicast Packets
0 Input Multicast Packets
0 Output Multicast Packets
0 Unsupported Protocol Packets
0 Input Errors
0 Output Errors

```

**Sample Output: show
accounting records
(with since time)**

```

user@host> show accounting records if_prof since 2000-10-03-00:10:41
Timestamp: 2000-10-03-00:30:41, Interface Name: fxp0 (SNMP Index 1)
32663634 Input Bytes
3487515 Output Bytes
158000 Input Packets
33296 Output Packets
158000 Input Unicast Packets
33296 Output Unicast Packets
0 Input Multicast Packets
0 Output Multicast Packets
0 Unsupported Protocol Packets
0 Input Errors
0 Output Errors

```

**Sample Output: show
accounting records (for
filter profile)**

```

user@host> show accounting records filter_profile
Timestamp: 2000-10-03-00:30:41, Filter Name: ap_filter, Interfaces: fxp0.0
Counter Name: c1
2440 Packets
223509 Bytes

```

**Sample Output: show
accounting records (for
destination class
profile)**

```

user@host> show accounting records dcu1
Timestamp: 2000-10-03-00:30:41, Interface: so-2/0/0.0, Destination Class: gold
0 Packets
0 Bytes

```

**Sample Output: show
accounting records (for
Routing Engine profile)**

```

user@host> show accounting records rep1
Timestamp: 2000-10-03-00:30:41
Host Name: andro
Date: 20010618
Time of Day: 183130
Uptime: 88260
Average CPU Load (1 min): 0.000000
Average CPU Load (5 min): 0.000000
Average CPU Load (15 min): 0.000000

```

