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## Show Commands

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### Security Commands

#### access-group

- Syntax** `access-group [group-name]`
- Context** `show>system>security`
- Description** This command displays SNMP access group information.
- Parameters** *group-name* — This command displays information for the specified access group.
- Output** **Security Access Group Output** — The following table describes security access group output fields..

**Table 9: Show System Security Access Group Output Fields**

Label	Description
Group name	The access group name.
Security model	The security model required to access the views configured in this node.
Security level	Specifies the required authentication and privacy levels to access the views configured in this node.
Read view	Specifies the variable of the view to read the MIB objects.
Write view	Specifies the variable of the view to configure the contents of the agent.
Notify view	Specifies the variable of the view to send a trap about MIB objects.

#### Sample Output

```
A:ALA-4# show system security access-group
=====
Access Groups
=====
group name      security  security  read      write      notify
                 model    level    view      view      view
-----
snmp-ro         snmpv1   none     no-security          no-security
snmp-ro         snmpv2c  none     no-security          no-security
snmp-rw         snmpv1   none     no-security  no-security  no-security
snmp-rw         snmpv2c  none     no-security  no-security  no-security
snmp-rwa        snmpv1   none     iso           iso          iso
snmp-rwa        snmpv2c  none     iso           iso          iso
```

```
snmp-trap      snmpv1      none          iso
snmp-trap      snmpv2c     none          iso
=====
A:ALA-7#
```

## authentication

- Syntax**    **authentication [statistics]**
- Context**    show>system>security
- Description**    This command displays system login authentication configuration and statistics.
- Parameters**    **statistics** — Appends login and accounting statistics to the display.
- Output**    **Authentication Output** — The following table describes system security authentication output fields.

**Table 10: Show System Security Authentication Output Fields**

Label	Description
Sequence	The sequence in which authentication is processed.
Server address	The IP address of the RADIUS server.
Status	Current status of the RADIUS server.
Type	The authentication type.
Timeout (secs)	The number of seconds the router waits for a response from a RADIUS server.
Single connection	Enabled — Specifies a single connection to the TACACS+ server and validates everything via that connection.  Disabled — The TACACS+ protocol operation is disabled.
Retry count	Displays the number of times the router attempts to contact the RADIUS server for authentication if there are problems communicating with the server.
Connection errors	Displays the number of times a user has attempted to login irrespective of whether the login succeeded or failed.
Accepted logins	The number of times the user has successfully logged in.
Rejected logins	The number of unsuccessful login attempts.
Sent packets	The number of packets sent.
Rejected packets	The number of packets rejected.

## Sample Output

```
A:ALA-4# show system security authentication
=====
Authentication                sequence : radius tacplus local
=====
server address  status  type    timeout(secs)  single connection  retry count
-----
10.10.10.103   up      radius  5              n/a                 5
10.10.0.1      up      radius  5              n/a                 5
10.10.0.2      up      radius  5              n/a                 5
10.10.0.3      up      radius  5              n/a                 5
-----
radius admin status : down
tacplus admin status : up
health check        : enabled
-----
No. of Servers: 4
=====
A:ALA-4#
```

```
A:ALA-7>show>system>security# authentication statistics
=====
Authentication                sequence : radius tacplus local
=====
server address  status  type    timeout(secs)  single connection  retry count
-----
10.10.10.103   up      radius  5              n/a                 5
10.10.0.1      up      radius  5              n/a                 5
10.10.0.2      up      radius  5              n/a                 5
10.10.0.3      up      radius  5              n/a                 5
-----
radius admin status : down
tacplus admin status : up
health check        : enabled
-----
No. of Servers: 4
=====
Login Statistics
=====
server address  connection errors  accepted logins  rejected logins
-----
10.10.10.103   0                  0                0
10.10.0.1      0                  0                0
10.10.0.2      0                  0                0
10.10.0.3      0                  0                0
local          n/a                1                0
=====
Authorization Statistics (TACACS+)
=====
server address  connection errors  sent packets     rejected packets
-----
Accounting Statistics
=====
server address  connection errors  sent packets     rejected packets
-----
10.10.10.103   0                  0                0
```

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```
10.10.0.1          0          0          0
10.10.0.2          0          0          0
10.10.0.3          0          0          0
=====
A:ALA-7#
*A:Dut-C# show system security authentication statistics

=====
Authentication                sequence : radius tacplus local
=====
type                            status  timeout    single    retry
server address                  (secs)   conn      count
-----
health check                    : enabled (interval 30)

=====
Login Statistics
=====
server address                    conn  accepted  rejected
errors logins                    logins
-----
local                            n/a   4          0

=====
Authorization Statistics (TACACS+)
=====
server address                    conn  sent      rejected
errors pkts                      pkts
-----

=====
Accounting Statistics
=====
server address                    conn  sent      rejected
errors pkts                      pkts
-----
=====
```

## communities

- Syntax** **communities**
- Context** show>system>security
- Description** This command displays SNMP communities.
- Output** **Communities Output** — The following table describes community output fields.

**Table 11: Show Communities Output Fields**

Label	Description
Community	The community string name for SNMPv1 and SNMPv2c access only.
Access	r – The community string allows read-only access. rw – The community string allows read-write access. rwa – The community string allows read-write access. mgmt – The unique SNMP community string assigned to the management router.
View	The view name.
Version	The SNMP version.
Group Name	The access group name.
No of Communities	The total number of configured community strings.

**Sample Output**

```
A:ALA-48# show system security communities
=====
Communities
=====
community      access  view          version  group name
-----
cli-readonly   r       iso           v2c     cli-readonly
cli-readwrite  rw      iso           v2c     cli-readwrite
public         r       no-security   v1 v2c  snmp-ro
-----
No. of Communities: 3
=====
A:ALA-48#
```

**cpm-filter**

<b>Syntax</b>	<b>cpm-filter</b>
<b>Context</b>	show>system>security
<b>Description</b>	This command displays CPM filters.

## ip-filter

- Syntax** `ip-filter [entry entry-id]`
- Context** `show>system>security>cpm-filter`
- Description** This command displays CPM IP filters.
- Parameters** `entry entry-id` — Identifies a CPM filter entry as configured on this system.
- Values** 1 — 2048
- Output** **CPM Filter Output** — The following table describes CPM IP filter output fields..

**Table 12: Show CPM IP Filter Output Fields**

Label	Description
Entry-Id	Displays information about the specified management access filter entry
Dropped	Displays the number of dropped events.
Forwarded	Displays the number of forwarded events.
Description	Displays the CPM filter description.
Log ID	Displays the log ID where matched packets will be logged.
Src IP	Displays the source IP address(/netmask or prefix-list)
Dest. IP	Displays the destination IP address(/netmask).
Src Port	Displays the source port number (range).
Dest. Port	Displays the destination port number (range).
Protocol	Displays the Protocol field in the IP header.
Dscp	Displays the DSCP field in the IP header.
Fragment	Displays the 3-bit fragment flags or 13-bit fragment offset field.
ICMP Type	Displays the ICMP type field in the ICMP header.
ICMP Code	Displays the ICMP code field in the ICMP header.
TCP-syn	Displays the SYN flag in the TCP header.
TCP-ack	Displays the ACK flag in the TCP header
Match action	When the criteria matches, displays drop or forward packet.
Next Hop	In case match action is forward, indicates destination of the matched packet.

**Table 12: Show CPM IP Filter Output Fields (Continued)**

Label	Description
Dropped pkts	Indicates number of matched dropped packets
Forwarded pkts	Indicates number of matched forwarded packets.

**Sample Output**

```
A:ALA-35# show system security cpm-filter ip-filter
=====
CPM IP Filters
=====
Entry-Id  Dropped   Forwarded Description
-----
101        25880     0         CPM-Filter 10.4.101.2 #101
102        25880     0         CPM-Filter 10.4.102.2 #102
103        25880     0         CPM-Filter 10.4.103.2 #103
104        25882     0         CPM-Filter 10.4.104.2 #104
105        25926     0         CPM-Filter 10.4.105.2 #105
106        25926     0         CPM-Filter 10.4.106.2 #106
107        25944     0         CPM-Filter 10.4.107.2 #107
108        25950     0         CPM-Filter 10.4.108.2 #108
109        25968     0         CPM-Filter 10.4.109.2 #109
110        25984     0         CPM-Filter 10.4.110.2 #110
111        26000     0         CPM-Filter 10.4.111.2 #111
112        26018     0         CPM-Filter 10.4.112.2 #112
113        26034     0         CPM-Filter 10.4.113.2 #113
114        26050     0         CPM-Filter 10.4.114.2 #114
115        26066     0         CPM-Filter 10.4.115.2 #115
116        26084     0         CPM-Filter 10.4.116.2 #116
=====
A:ALA-35#

A:ALA-35# show system security cpm-filter ip-filter entry 101
=====
CPM IP Filter Entry
=====
Entry Id      : 101
Description   : CPM-Filter 10.4.101.2 #101
-----
Filter Entry Match Criteria :
-----
Log Id        : n/a
Src. IP       : 10.4.101.2/32      Src. Port     : 0
Dest. IP      : 10.4.101.1/32      Dest. Port    : 0
Protocol      : 6                  Dscp          : ef
ICMP Type     : Undefined        ICMP Code     : Undefined
Fragment      : True             Option-present : Off
IP-Option     : 130/255          Multiple Option : True
TCP-syn       : Off              TCP-ack       : True
Match action  : Drop
=====
A:ALA-35#
```

## ipv6-filter

- Syntax** `ip-filter [entry entry-id]`
- Context** `show>system>security>cpm-filter`
- Description** Displays CPM IPv6 filters.
- Parameters** `entry entry-id` — Identifies a CPM IPv6 filter entry as configured on this system.
  - Values** 1 — 2048
- Output** **CPM Filter Output** — The following table describes CPM IPv6 filter output fields..

**Table 13: Show CPM IPv6 Filter Output Fields**

Label	Description
Entry-Id	Displays information about the specified management access filter entry
Dropped	Displays the number of dropped events.
Forwarded	Displays the number of forwarded events.
Description	Displays the CPM filter description.
Log ID	Log Id where matched packets will be logged.
Src IP	Displays Source IP address(/netmask)
Dest. IP	Displays Destination IP address(/netmask).
Src Port	Displays Source Port Number (range).
Dest. Port	Displays Destination Port Number (range).
next-header	Displays next-header field in the IPv6 header.
Dscp	Displays Traffic Class field in the IPv6 header.
ICMP Type	Displays ICMP type field in the icmp header.
ICMP Code	Displays ICMP code field in the icmp header.
TCP-syn	Displays the SYN flag in the TCP header.
TCP-ack	Displays the ACK flag in the TCP header
Match action	When criteria matches, displays drop or forward packet.
Next Hop	In case match action is forward, indicates destination of the matched packet.
Dropped pkts	Indicating number of matched dropped packets
Forwarded pkts	Indicating number of matched forwarded packets.



**Sample Output**

```
A:ALA-35# show system security cpm-filter ipv6-filter
```

```
=====
CPM IPv6 Filters
=====
```

```
Entry-Id Dropped Forwarded Description
-----
```

```
101      25880    0      CPM-Filter 11::101:2 #101
102      25880    0      CPM-Filter 11::102:2 #102
103      25880    0      CPM-Filter 11::103:2 #103
104      25880    0      CPM-Filter 11::104:2 #104
105      25880    0      CPM-Filter 11::105:2 #105
106      25880    0      CPM-Filter 11::106:2 #106
107      25880    0      CPM-Filter 11::107:2 #107
108      25880    0      CPM-Filter 11::108:2 #108
109      25880    0      CPM-Filter 11::109:2 #109
=====
```

```
A:ALA-35#
```

```
A:ALA-35# show system security cpm-filter ipv6-filter entry 101
```

```
=====
CPM IPv6 Filter Entry
=====
```

```
Entry Id : 1
```

```
Description : CPM-Filter 11::101:2 #101
-----
```

```
Filter Entry Match Criteria :
-----
```

```
Log Id : n/a
```

```
Src. IP : 11::101:2      Src. Port : 0
```

```
Dest. IP : 11::101:1    Dest. Port : 0
```

```
next-header : none      Dscp : Undefined
```

```
ICMP Type : Undefined   ICMP Code : Undefined
```

```
TCP-syn : Off           TCP-ack : Off
```

```
Match action : Drop
```

```
Dropped pkts : 25880    Forwarded pkts : 0
=====
```

```
A:ALA-35#
```

**cpm-queue**

**Syntax** `cpm-queue queue-id`

**Context** `show>system>security`

**Description** Displays CPM queues.

**Parameters** *queue-id* — Specifies an integer value that identifies a CPM queue.

**Values** 0, 33 — 2000

**CPM queue Output** — The following table describes CPM queue output fields..

**Table 14: Show CPM IPv6 Filter Output Fields**

Label	Description
PIR	Displays the administrative Peak Information Rate (PIR) for the queue.
CIR	Displays the amount of bandwidth committed to the queue.
CBS	Displays the amount of buffer drawn from the reserved buffer portion of the queue's buffer pool.
MBS	Displays the maximum queue depth to which a queue can grow.

**Sample Output**

```
A:ALA-35# show system security cpm-queue 1001
=====
CPM Queue Entry
=====
Queue Id           : 1001
-----
Queue Parameters :
-----
PIR                : 10000000          CIR                : 10000000
CBS                : 4096             MBS                : 8192
=====
A:ALA-35#
```

**cpu-protection**

- Syntax**     **cpu-protection**
- Context**    show>system>security
- Description** This command enables the context to display CPU protection information.

**Sample Output**

```
show system security cpu-protection eth-cfm-monitoring
=====
SAP's where the protection policy Eth-CFM rate limit is exceeded
=====
SAP-Id                Service-Id   Plcy
-----
1/1/1                 3           100
-----
1 SAP('s) found
=====
SDP's where the protection policy Eth-CFM rate limit is exceeded
=====
```

```

SDP-Id          Service-Id  Plcy
-----
1:3             3           100
-----

```

```

1 SDP('s) found
=====

```

```

show system security cpu-protection eth-cfm-monitoring service-id 3 sap-id 1/1/1
=====

```

```

Flows exceeding the Eth-CFM monitoring rate limit
=====

```

```

Service-Id : 3
SAP-Id      : 1/1/1
Plcy        : 100
-----

```

Limit	MAC-Address First-Time	Level Last-Time	OpCode	Violation-Periods
0	8c:8c:8c:8c:8c:8c	1	18	
	03/21/2009 23:32:29	03/21/2009 23:34:39		4000000019
61234	8d:8d:8d:8d:8d:8d	2	19	
	03/21/2009 23:32:39	03/21/2009 23:34:59		4000000020
61234	Aggregated	3	20	
	03/21/2009 23:32:49	03/21/2009 23:35:19		4000000021
61234	8f:8f:8f:8f:8f:8f	4	21	
	03/21/2009 23:32:59	03/21/2009 23:35:39		4000000022
61234	90:90:90:90:90:90	5	22	
	03/21/2009 23:33:09	03/21/2009 23:35:59		4000000023
61234	91:91:91:91:91:91	6	23	
	03/21/2009 23:33:19	03/21/2009 23:36:19		4000000024
61234	92:92:92:92:92:92	7	24	
	03/21/2009 23:33:29	03/21/2009 23:36:39		4000000025
max	Aggregated	0	25	
	03/21/2009 23:33:39	03/21/2009 23:36:59		4000000026
0	94:94:94:94:94:94	1	26	
	03/21/2009 23:33:49	03/21/2009 23:37:19		4000000027

```

9 flows(s) found
=====

```

```

show system security cpu-protection eth-cfm-monitoring service-id 3 sdp-id 1:3
=====

```

```

Flows exceeding the Eth-CFM monitoring rate limit
=====

```

```

Service-Id : 3
SDP-Id      : 1:3
Plcy        : 100
-----

```

Limit	MAC-Address First-Time	Level Last-Time	OpCode	Violation-Periods
0	8c:8c:8c:8c:8c:8c	1	18	
	03/21/2009 23:32:29	03/21/2009 23:34:39		3000000019
61234	8d:8d:8d:8d:8d:8d	2	19	
	03/21/2009 23:32:39	03/21/2009 23:34:59		3000000020
61234	Aggregated	3	20	
	03/21/2009 23:32:49	03/21/2009 23:35:19		3000000021
61234	8f:8f:8f:8f:8f:8f	4	21	
	03/21/2009 23:32:59	03/21/2009 23:35:39		3000000022

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```
61234 90:90:90:90:90:90 5 22
03/21/2009 23:33:09 03/21/2009 23:35:59 3000000023
61234 91:91:91:91:91:91 6 23
03/21/2009 23:33:19 03/21/2009 23:36:19 3000000024
61234 92:92:92:92:92:92 7 24
03/21/2009 23:33:29 03/21/2009 23:36:39 3000000025
max Aggregated 0 25
03/21/2009 23:33:39 03/21/2009 23:36:59 3000000026
0 94:94:94:94:94:94 1 26
03/21/2009 23:33:49 03/21/2009 23:37:19 3000000027
```

-----  
9 flow(s) found  
=====

```
show system security cpu-protection excessive-sources service-id 3 sdp-id 1:3
```

-----  
Sources exceeding the per-source rate limit  
=====

```
Service-Id : 3
SDP-Id      : 1:3
Plcy       : 100
Limit      : 65534
```

-----  
MAC-Address            First-Time            Last-Time            Violation-Periods  
-----  
00:00:00:00:00:01 03/22/2009 00:41:59 03/22/2009 01:53:39 3000000043  
00:00:00:00:00:02 03/22/2009 00:43:39 03/22/2009 01:56:59 3000000044  
00:00:00:00:00:03 03/22/2009 00:45:19 03/22/2009 02:00:19 3000000045  
00:00:00:00:00:04 03/22/2009 00:46:59 03/22/2009 02:03:39 3000000046  
00:00:00:00:00:05 03/22/2009 00:48:39 03/22/2009 02:06:59 3000000047  
-----

5 source(s) found  
=====

```
show system security cpu-protection violators sdp
```

-----  
SDP's where the protection policy overall rate limit is violated  
=====

```
SDP-Id            Service-Id
Plcy Limit First-Time            Last-Time            Violation-Periods
-----  
1:1                    3  
100 61234 05/01/2010 01:43:53 06/27/2010 22:37:20 3000000007  
1:2                    3  
255 max 05/01/2010 01:43:55 06/27/2010 22:37:23 3000000008  
1:3                    3  
100 61234 05/01/2010 01:43:57 06/27/2010 22:37:26 3000000009  
1:4                    3  
255 max 05/01/2010 01:43:59 06/27/2010 22:37:29 3000000010  
1:5                    3  
100 61234 05/01/2010 01:44:01 06/27/2010 22:37:32 3000000011  
-----
```

5 SDP('s) found  
=====

```
show system security cpu-protection excessive-sources
```

```

=====
SAP's where the protection policy per-source rate limit is exceeded
=====
SAP-Id                               Service-Id
  Plcy Limit
-----
1/1/1                                 3
  100 65534
-----
1 SAP('s) found
=====
SDP's where the protection policy per-source rate limit is exceeded
=====
SDP-Id          Service-Id  Plcy  Limit
-----
1:3             3           100   65534
1:4             3           255   max
1:5             3           100   65534
-----
3 SDP('s) found
=====

show system security cpu-protection policy association
=====
Associations for CPU Protection policy 100
=====
Description : (Not Specified)
SAP associations
-----
Service Id : 3                               Type : VPLS
  SAP 1/1/1                                 mac-monitoring
  SAP 1/1/2                                 eth-cfm-monitoring aggr car
  SAP 1/1/3                                 eth-cfm-monitoring
  SAP 1/1/4
-----
Number of SAP's : 4
SDP associations
-----
Service Id : 3                               Type : VPLS
  SDP 1:1                                 eth-cfm-monitoring aggr car
  SDP 1:3                                 eth-cfm-monitoring aggr
  SDP 1:5                                 mac-monitoring
  SDP 17407:4123456789                    eth-cfm-monitoring car
-----
Number of SDP's : 4
Interface associations
-----
None
Managed SAP associations
-----
None
Video-Interface associations
-----
None
=====
Associations for CPU Protection policy 254
=====
Description : Default (Modifiable) CPU-Protection Policy assigned to Access

```

Interfaces

```

SAP associations
-----
None
SDP associations
-----
None
Interface associations
-----
Router-Name : Base
  ies6If
Router-Name : vprn7
  vprn7If
-----
Number of interfaces : 2
Managed SAP associations
-----
None
Video-Interface associations
-----
None
=====
Associations for CPU Protection policy 255
=====
Description : Default (Modifiable) CPU-Protection Policy assigned to Network
              Interfaces

SAP associations
-----
None
SDP associations
-----
Service Id   : 3                               Type   : VPLS
  SDP 1:2
  SDP 1:4          eth-cfm-monitoring
Service Id   : 6                               Type   : IES
  SDP 1:6
Service Id   : 7                               Type   : VPRN
  SDP 1:7
Service Id   : 9                               Type   : Epipe
  SDP 1:9
Service Id   : 300                             Type   : VPLS
  SDP 1:300
-----
Number of SDP's : 6
Interface associations
-----
Router-Name : Base
  system
-----
Number of interfaces : 1
Managed SAP associations
-----
None
Video-Interface associations
-----
None
=====

```

```

show system security cpu-protection policy 100 association
=====
Associations for CPU Protection policy 100
=====
Description : (Not Specified)

SAP associations
-----
Service Id : 3                               Type : VPLS
  SAP 1/1/1                                   mac-monitoring
  SAP 1/1/2                                   eth-cfm-monitoring aggr car
  SAP 1/1/3                                   eth-cfm-monitoring
  SAP 1/1/4
-----
Number of SAP's : 4
SDP associations
-----
Service Id : 3                               Type : VPLS
  SDP 1:1                                     eth-cfm-monitoring aggr car
  SDP 1:3                                     eth-cfm-monitoring aggr
  SDP 1:5                                     mac-monitoring
  SDP 17407:4123456789                       eth-cfm-monitoring car
-----
Number of SDP's : 4
Interface associations
-----
None
Managed SAP associations
-----
None
Video-Interface associations
-----
None
=====
A:bksim130#

show system security cpu-protection violators
=====
Ports where a rate limit is violated
=====
Port-Id
  Type Limit First-Time           Last-Time           Violation-Periods
-----
No ports found
=====
Interfaces where the protection policy overall rate limit is violated
=====
Interface-Name                    Router-Name
  Plcy Limit First-Time           Last-Time           Violation-Periods
-----
No interfaces found
=====
SAP's where the protection policy overall rate limit is violated
=====
SAP-Id                             Service-Id
  Plcy Limit First-Time           Last-Time           Violation-Periods

```

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```
-----
1/1/1                                     3
  100 61234 05/01/2010 01:43:41 06/27/2010 22:37:02 3000000001
-----
1 SAP('s) found
=====
SDP's where the protection policy overall rate limit is violated
=====
SDP-Id      Service-Id
  Plcy Limit First-Time      Last-Time      Violation-Periods
-----
1:1         3
  100 61234 05/01/2010 01:43:41 06/27/2010 22:37:02 3000000001
1:2         3
  255 max  05/01/2010 01:43:43 06/27/2010 22:37:05 3000000002
1:3         3
  100 61234 05/01/2010 01:43:45 06/27/2010 22:37:08 3000000003
1:4         3
  255 max  05/01/2010 01:43:47 06/27/2010 22:37:11 3000000004
1:5         3
  100 61234 05/01/2010 01:43:49 06/27/2010 22:37:14 3000000005
-----
5 SDP('s) found
=====
Video clients where the protection policy per-source rate limit is violated
=====
Client IP Address Video-Interface      Service-Id
  Plcy Limit First-Time      Last-Time      Violation-Periods
-----
No clients found
=====
```

## eth-cfm-monitoring

- Syntax** `eth-cfm-monitoring [{service-id service-id sap-id sap-id} | {service-id service-id sdp-id sdp-id:vc-id}]`
- Context** `show>system>security>cpu-protection`
- Description** This command displays sources exceeding their eth-cfm-monitoring rate limit.

## dist-cpu-protection

- Syntax** `dist-cpu-protection`
- Context** `show>system>security`
- Description** This command enables the context to display distributed CPU protection information.



## excessive-sources

- Syntax** **excessive-sources** [**service-id** *service-id* **sap-id** *sap-id*]
- Context** show>system>security>cpu-protection
- Description** This command displays sources exceeding their per-source rate limit.
- Parameters** **service-id** *service-id* — Displays information for services exceeding their per-source rate limit.  
**sap-id** *sap-id* — Displays information for SAPs exceeding their per-source rate limit.

## policy

- Syntax** **policy** [*policy-id*] **association**
- Context** show>system>security>cpu-protection  
show>system>security>dist-cpu-protection
- Description** This command displays CPU protection policy information.
- Parameters** *policy-id* — Displays CPU protection policy information for the specified policy ID>  
**association** — This keyword displays policy-id associations.

## protocol-protection

- Syntax** **protocol-protection**
- Context** show>system>security>cpu-protection
- Description** This command display all interfaces with non-zero drop counters.

## violators

- Syntax** **violators** [**port**] [**interface**] [**sap**] [**video**] [**sdp**]
- Context** show>system>security>cpu-protection
- Description** This command displays all interfaces, ports or SAPs with CPU protection policy violators.
- Parameters** **port** — Displays violators associated with the port.  
**interface** — Displays violators associated with the interface.  
**sap** — Displays violators associated with the SAP.  
**video** — Displays violators associated with the video entity.  
**sdp** — Displays violators associated with the SDP.

**Sample Output**

```
*A:SecuritySR7>config>sys>security>cpu-protection>policy# show system security cpu-
protection violators
=====
Ports where a rate limit is violated
=====
Port-Id
  Type Limit First-Time          Last-Time          Violation-Periods
-----
No ports found
=====

=====
Interfaces where the protection policy overall rate limit is violated
=====
Interface-Name          Router-Name
  Plcy Limit First-Time          Last-Time          Violation-Periods
-----
toIxia
  255 1000 10/02/2012 18:38:23 10/02/2012 18:39:31 70
-----
1 interface(s) found
=====

=====
SAP's where the protection policy overall rate limit is violated
=====
SAP-Id          Service-Id
  Plcy Limit First-Time          Last-Time          Violation-Periods
-----
No SAP's found
=====

=====
SDP's where the protection policy overall rate limit is violated
=====
SDP-Id          Service-Id
  Plcy Limit First-Time          Last-Time          Violation-Periods
-----
No SDP's found
=====

=====
Video clients where the protection policy per-source rate limit is violated
=====
Client IP Address  Video-Interface          Service-Id
  Plcy Limit First-Time          Last-Time          Violation-Periods
-----
No clients found
=====
```

## mac-filter

<b>Syntax</b>	<b>mac-filter</b> [ <b>entry</b> <i>entry-id</i> ]
<b>Context</b>	show>system>security>cpm-filter
<b>Description</b>	This command displays CPM MAC filters.
<b>Parameters</b>	<b>entry</b> <i>entry-id</i> — Displays information about the specified entry.
<b>Values</b>	1 — 2048

**Sample Output**

```
*B:bksim67# show system security cpm-filter mac-filter
=====
CPM Mac Filter (applied)
=====
Entry-Id  Dropped   Forwarded Description
-----
1          23002     47094
-----
Num CPM Mac filter entries: 1
=====
*B:bksim67#
```

## mac-filter

<b>Syntax</b>	<b>mac-filter</b> [ <b>entry</b> <i>entry-id</i> ]
<b>Context</b>	show>system>security>management-access-filter
<b>Description</b>	This command displays management access MAC filters.
<b>Parameters</b>	<b>entry</b> <i>entry-id</i> — Displays information about the specified entry.
<b>Values</b>	1 — 9999

**Sample Output**

```
*B:bksim67# show system security management-access-filter mac-filter
=====
Mac Management Access Filter
=====
filter type      : mac
Def. Action      : permit
Admin Status     : enabled (no shutdown)
-----
Entry            : 1                Action           : deny
FrameType        : ethernet_II      Svc-Id           : Undefined
Src Mac          : Undefined
Dest Mac         : Undefined
Dot1p            : Undefined        Ethertype        : Disabled
```

## Security Commands

```
DSAP          : Undefined          SSAP          : Undefined
Snap-pid      : Undefined          ESnap-oui-zero : Undefined
cfm-opcode    : Undefined
Log           : disabled          Matches       : 0
=====
*B:bksim67#
```

## keychain

- Syntax** `keychain [key-chain] [detail]`
- Context** `show>system>security`
- Description** This command displays keychain information.
- Parameters** *key-chain* — Specifies the keychain name to display.  
*detail* — Displays detailed keychain information.

### Sample Output

```
*A:ALA-A# show system security keychain test
=====
Key chain:test
=====
TCP-Option number send      : 254          Admin state   : Up
TCP-Option number receive  : 254          Oper state    : Up
=====
*A:ALA-A#
*A:ALA-A# show system security keychain test detail
=====
Key chain:test
=====
TCP-Option number send      : 254          Admin state   : Up
TCP-Option number receive  : 254          Oper state    : Up
=====
Key entries for key chain: test
=====
Id          : 0
Direction  : send-receive      Algorithm     : hmac-sha-1-96
Admin State : Up                    Valid        : Yes
Active     : Yes                Tolerance    : 300
Begin Time : 2007/02/15 18:28:37 Begin Time (UTC) : 2007/02/15 17:28:37
End Time   : N/A                End Time (UTC)  : N/A
=====
Id          : 1
Direction  : send-receive      Algorithm     : aes-128-cmac-96
Admin State : Up                    Valid        : Yes
Active     : No                Tolerance    : 300
Begin Time : 2007/02/15 18:27:57 Begin Time (UTC) : 2007/02/15 17:27:57
End Time   : 2007/02/15 18:28:13 End Time (UTC)  : 2007/02/15 17:28:13
=====
Id          : 2
Direction  : send-receive      Algorithm     : aes-128-cmac-96
Admin State : Up                    Valid        : Yes
```

```

Active           : No           Tolerance       : 500
Begin Time      : 2007/02/15 18:28:13 Begin Time (UTC) : 2007/02/15 17:28:13
End Time       : 2007/02/15 18:28:37 End Time (UTC)   : 2007/02/15 17:28:37
=====
*A:ALA-A#

```

## management-access-filter

- Syntax** `management-access-filter`
- Context** `show>system>security`
- Description** This command displays management access filter information for IP and MAC filters.

## ip-filter

- Syntax** `ip-filter [entry entry-id]`
- Context** `show>system>security>mgmt-access-filter`
- Description** This command displays management-access IP filters.
- Parameters** *entry-id* — Displays information for the specified entry.
- Values** 1 — 9999
- Output** **Management Access Filter Output** — The following table describes management access filter output fields.

**Table 15: Show Management Access Filter Output Fields**

Label	Description
Def. action	<p>Permit — Specifies that packets not matching the configured selection criteria in any of the filter entries are permitted.</p> <p>Deny — Specifies that packets not matching the configured selection criteria in any of the filter entries are denied and that a ICMP host unreachable message will be issued.</p> <p>Deny-host-unreachble — Specifies that packets not matching the configured selection criteria in the filter entries are denied.</p>
Entry	The entry ID in a policy or filter table.
Description	A text string describing the filter.
Src IP	The source IP address used for management access filter match criteria.

**Table 15: Show Management Access Filter Output Fields (Continued)**

Label	Description
Src interface	The interface name for the nexthop to which the packet should be forwarded if it hits this filter entry.
Dest port	The destination port.
Matches	The number of times a management packet has matched this filter entry.
Protocol	The IP protocol to match.
Action	The action to take for packets that match this filter entry.

```
*A:Dut-F# show system security management-access-filter ip-filter
=====
IPv4 Management Access Filter
=====
filter type:   : ip
Def. Action   : permit
Admin Status  : enabled (no shutdown)
-----
Entry         : 1
Src IP        : 192.168.0.0/16
Src interface : undefined
Dest port     : undefined
Protocol      : undefined
Router        : undefined
Action        : none
Log           : disabled
Matches       : 0
=====
*A:Dut-F#
```

## ipv6-filter

- Syntax** `ipv6-filter [entry entry-id]`
- Context** `show>system>security>mgmt-access-filter`
- Description** This command displays management-access IPv6 filters.
- Parameters** *entry-id* — Specifies the IPv6 filter entry ID to display.

**Values** 1 — 9999

**Output**

```
*A:Dut-C# show system security management-access-filter ipv6-filter entry 1
=====
IPv6 Management Access Filter
=====
filter type   : ipv6
Def. Action   : permit
```

```

Admin Status : enabled (no shutdown)
-----
Entry       : 1
Src IP      : 2001::1/128
Flow label  : undefined
Src interface : undefined
Dest port   : undefined
Next-header : undefined
Router      : undefined
Action      : permit
Log         : enabled
Matches     : 0
=====
*A:Dut-C# s

```

## password-options

- Syntax** `password-options`
- Context** `show>system>security`
- Description** This command displays configured password options.
- Output** **Password Options Output** — The following table describes password options output fields.

**Table 16: Show Management Access Filter Output Fields**

Label	Description
Password aging in days	Displays the number of days a user password is valid before the user must change their password.
Number of invalid attempts permitted per login	Displays the number of unsuccessful login attempts allowed for the specified <b>time</b> .
Time in minutes per login attempt	Displays the period of time, in minutes, that a specified number of unsuccessful attempts can be made before the user is locked out.
Lockout period (when threshold breached)	Displays the lockout period in minutes where the user is not allowed to login.
Authentication order	Displays the sequence in which password authentication is attempted among RADIUS, TACACS+, and local passwords.
Configured complexity options	Displays the complexity requirements of locally administered passwords, HMAC-MD5-96, HMAC-SHA-96 and DES-keys configured in the <b>authentication</b> section.
Minimum password length	Displays the minimum number of characters required for locally administered passwords, HMAC-MD5-96, HMAC-SHA-96, and DES-keys configured in the system security section.

**Sample Output**

```
A:ALA-7# show system security password-options
=====
Password Options
=====
Password aging in days           : none
Number of invalid attempts permitted per login : 3
Time in minutes per login attempt : 5
Lockout period (when threshold breached)       : 10
Authentication order             : radius tacplus local
Configured complexity options      :
Minimum password length           : 6
=====
A:ALA-7#
```

per-peer-queuing

- Syntax**     **per-peer-queuing**
- Context**    show>system>security
- Description** This command enables or disables CPMCFM hardware queuing per peer. TTL security only operates when per-peer-queuing is enabled.
- Output**     **Per-Peer-Queuing Output** — The following table describes per-peer-queuing output fields.

**Table 17: Show Per-Peer-Queuing Output Fields**

Label	Description
Per Peer Queuing	Displays the status (enabled or disabled) of CPM hardware queuing per peer.
Total Num of Queues	Displays the total number of hardware queues.
Num of Queues In Use	Displays the total number of hardware queues in use.

**Sample Output**

```
A:ALA-48# show system security per-peer-queuing
=====
CPM Hardware Queuing
=====
Per Peer Queuing           : Enabled
Total Num of Queues        : 8192
Num of Queues In Use       : 2
=====
A:ALA-48# configure
```



## profile

- Syntax** `profile [user-profile-name]`
- Context** `show>system>security`
- Description** This command displays user profile information.  
If the *profile-name* is not specified, then information for all profiles are displayed.
- Parameters** *user-profile-name* — Displays information for the specified user profile.
- Output** **User Profile Output** — The following table describes user profile output fields.

**Table 18: Show User Profile Output Fields**

Label	Description
User Profile	Displays the profile name used to deny or permit user console access to a hierarchical branch or to specific commands.
Def. action	Permit all — Permits access to all commands. Deny — Denies access to all commands. None — No action is taken.
Entry	The entry ID in a policy or filter table.
Description	Displays the text string describing the entry.
Match Command	Displays the command or subtree commands in subordinate command levels.
Action	Permit all — Commands matching the entry command match criteria are permitted. Deny — Commands not matching the entry command match criteria are not permitted.
No. of profiles	The total number of profiles listed.

**Sample Output**

```
A:ALA-7# show system security profile administrative
```

```
=====
```

```
User Profile
```

```
=====
```

```
User Profile : administrative
```

```
Def. Action : permit-all
```

```
-----
```

```
Entry          : 10
```

```
Description :
```

```
Match Command: configure system security
```

```

Action      : permit
-----
Entry      : 20
Description :
Match Command: show system security
Action      : permit
-----
No. of profiles:
=====
A:ALA-7#
    
```

## source-address

**Syntax** **source-address**

**Context** show>system>security

**Description** This command displays source-address configured for applications.

**Output** **Source Address Output** — The following table describes source address output fields.

**Table 19: Show Source Address Output Fields**

Label	Description
Application	Displays the source-address application.
IP address Interface Name	Displays the source address IP address or interface name.
Oper status	Up — The source address is operationally up. Down — The source address is operationally down.

### Sample Output

```

A:SR-7# show system security source-address
=====
Source-Address applications
=====
Application      IP address/Interface Name      Oper status
-----
telnet           10.20.1.7                       Up
radius           loopback1                        Up
=====
A:SR-7#
    
```

## ssh

- Syntax** **ssh**
- Context** show>system>security
- Description** This command displays all the SSH sessions as well as the SSH status and fingerprint.
- Output** **SSH Options Output** — The following table describes SSH output fields .

Label	Description
SSH status	SSH is enabled — Displays that SSH server is enabled. SSH is disabled — Displays that SSH server is disabled.
SSH Preserve Key	Enabled — Displays that preserve-key is enabled. Disabled — Displays that preserve-key is disabled.
SSH protocol version 1	Enabled — Displays that SSH1 is enabled. Disabled — Displays that SSH1 is disabled.
SSH protocol version 2	Enabled — Displays that SSH2 is enabled. Disabled — Displays that SSH2 is disabled.
Key fingerprint	The key fingerprint is the server's identity. Clients trying to connect to the server verify the server's fingerprint. If the server fingerprint is not known, the client may not continue with the SSH session since the server might be spoofed.
Connection	The IP address of the connected router(s) (remote client).
Encryption	des — Data encryption using a private (secret) key. 3des — An encryption method that allows proprietary information to be transmitted over untrusted networks.
Username	The name of the user.
Number of SSH sessions	The total number of SSH sessions.

**Sample output**

```
ALA-7# show system security ssh
SSH is enabled
SSH preserve key: Enabled
SSH protocol version 1: Enabled
RSA host key finger print:c6:a9:57:cb:ee:ec:df:33:1a:cd:d2:ef:3f:b5:46:34

SSH protocol version 2: Enabled
DSA host key finger print:ab:ed:43:6a:75:90:d3:fc:42:59:17:8a:80:10:41:79
=====
Connection      Encryption      Username
=====
192.168.5.218    3des           admin
-----
```

## Security Commands

```
Number of SSH sessions : 1
=====
ALA-7#

A:ALA-49>config>system>security# show system security ssh
SSH is disabled
A:ALA-49>config>system>security#
```

## user

- Syntax** **user** [*user-id*] [**detail**]  
**user** [*user-id*] **lockout**
- Context** show>system>security
- Description** This command displays user registration information.  
If no command line options are specified, summary information for all users displays.
- Parameters** *user-id* — Displays information for the specified user.  
**Default** All users  
**detail** — Displays detailed user information to the summary output.  
**lockout** — Displays information about any users who are currently locked out.
- Output** **User Output** — The following table describes user output fields.

Label	Description
User ID	The name of a system user.
Need new pwd	Y — The user must change his password at the next login. N — The user is not forced to change his password at the next login.
Cannot change pw	Y — The user has the ability to change the login password. N — The user does not have the ability to change the login password.
User permissions	Console — Y - The user is authorized for console access. N- The user is not authorized for console access. FTP — Y - The user is authorized for FTP access. N - The user is not authorized for FTP access. SNMP — Y - The user is authorized for SNMP access. N - The user is not authorized for SNMP access.
Password expires	The number of days in which the user must change his login password.

Label	Description (Continued)
Attempted logins	The number of times the user has attempted to login irrespective of whether the login succeeded or failed.
Failed logins	The number of unsuccessful login attempts.
Local conf	Y – Password authentication is based on the local password database. N – Password authentication is not based on the local password database.
Home directory	Specifies the local home directory for the user for both console and FTP access.
Restricted to home	Yes – The user is not allowed to navigate to a directory higher in the directory tree on the home directory device. No – The user is allowed to navigate to a directory higher in the directory tree on the home directory device.
Login exec file	Displays the user's login exec file which executes whenever the user successfully logs in to a console session.  profile - the security profile(s) associated with the user  locked-out - no / yes (time remaining). Indicates the the user is currently locked-out. After the time expires, or the lockout is manually cleared, the user will be able to attempt to log into the node again.  Remaining Login attempts - number of login attempts remaining until the user will be locked-out  Remaining Lockout Time - The time until the lockout is automatically cleared and the user can attempt to log into the node again.

### Sample Output

```
*A:Dut-C# show system security user detail
=====
Users
=====
User ID          New  User Permissions      Password   Login   Failed   Local
                  Pwd  console ftp li snmp  Expires   Attempts Logins  Conf
-----
admin            n   y      n  n  n      never      4         0         y
-----
Number of users : 1
=====

*A:Dut-C# show system security user detail
=====
User Configuration Detail
```

```

=====
user id          : admin
-----
console parameters
-----
new pw required  : no                cannot change pw : no
home directory   :
restricted to home : no
login exec file  :
profile          : administrative
locked-out       : yes (9:23 remaining)
-----
snmp parameters
-----
=====

*A:Node234# show system security user lockout
=====
Currently Failed Login Attempts
=====
User ID Remaining Login attempts Remaining Lockout Time (min:sec)
-----
jason123 N/A 9:56
-----
Number of users : 1
=====

```

view

- Syntax**    **view** [*view-name*] [**detail**]
- Context**    show>system>security
- Description** This command displays the SNMP MIB views.
- Parameters** *view-name* — Specify the name of the view to display output. If no view name is specified, the complete list of views displays.  
**detail** — Displays detailed view information.
- Output**    **View Output** — The following table describes show view output fields.

**Table 20: Show View Output Fields**

Label	Description
view name	The name of the view. Views control the accessibility of a MIB object within the configured MIB view and subtree.
oid tree	The object identifier of the ASN.1 subtree.
mask	The bit mask that defines a family of view subtrees.

Label	Description (Continued)
permission	Indicates whether each view is included or excluded
No. of Views	Displays the total number of views.

### Sample Output

A:ALA-48# show system security view

```

=====
Views
=====
view name          oid tree          mask              permission
-----
iso                1                 11111111         included
readl              1.1.1.1          11111111         included
writel             2.2.2.2          11111111         included
testview           1                 11111111         included
testview           1.3.6.1.2        11111111         excluded
mgmt-view          1.3.6.1.2.1.2    11111111         included
mgmt-view          1.3.6.1.2.1.4    11111111         included
mgmt-view          1.3.6.1.2.1.5    11111111         included
mgmt-view          1.3.6.1.2.1.6    11111111         included
mgmt-view          1.3.6.1.2.1.7    11111111         included
mgmt-view          1.3.6.1.2.1.31   11111111         included
mgmt-view          1.3.6.1.2.1.77   11111111         included
mgmt-view          1.3.6.1.4.1.6527.3.1.2.3.7 11111111         included
mgmt-view          1.3.6.1.4.1.6527.3.1.2.3.11 11111111         included
vprn-view          1.3.6.1.2.1.2    11111111         included
vprn-view          1.3.6.1.2.1.4    11111111         included
vprn-view          1.3.6.1.2.1.5    11111111         included
vprn-view          1.3.6.1.2.1.6    11111111         included
vprn-view          1.3.6.1.2.1.7    11111111         included
vprn-view          1.3.6.1.2.1.15   11111111         included
vprn-view          1.3.6.1.2.1.23   11111111         included
vprn-view          1.3.6.1.2.1.31   11111111         included
vprn-view          1.3.6.1.2.1.68   11111111         included
vprn-view          1.3.6.1.2.1.77   11111111         included
vprn-view          1.3.6.1.4.1.6527.3.1.2.3.7 11111111         included
vprn-view          1.3.6.1.4.1.6527.3.1.2.3.11 11111111         included
vprn-view          1.3.6.1.4.1.6527.3.1.2.20.1 11111111         included
no-security        1                 11111111         included
no-security        1.3.6.1.6.3       11111111         excluded
no-security        1.3.6.1.6.3.10.2.1 11111111         included
no-security        1.3.6.1.6.3.11.2.1 11111111         included
no-security        1.3.6.1.6.3.15.1.1 11111111         included
on-security        2                 00000000         included
=====
No. of Views: 33
=====
A:ALA-48#

```

## certificate

<b>Syntax</b>	<b>certificate</b>
<b>Context</b>	show
<b>Description</b>	This command displays certificate information.

## ca-profile

<b>Syntax</b>	<b>ca-profile</b> <b>ca-profile</b> <i>name</i> [ <b>association</b> ]
<b>Context</b>	show>certificate
<b>Description</b>	This command shows certificate-authority profile information.
<b>Parameters</b>	<i>name</i> — Specifies the name of the Certificate Authority (CA) profile. <b>association</b> —

## ocsp-cache

<b>Syntax</b>	<b>ocsp-cache</b> [ <i>entry-id</i> ]
<b>Context</b>	show>certificate
<b>Description</b>	This command displays the current cached OCSP results. The output includes the following information: <ul style="list-style-type: none"><li>• Certificate issuer</li><li>• Certificate serial number</li><li>• OCSP result</li><li>• Cache entry expire time</li></ul>
<b>Parameters</b>	<i>entry-id</i> — Specifies the local cache entry identifier of the certificate that was validated by the OCSP responder.

## statistics

<b>Syntax</b>	<b>statistics</b>
<b>Context</b>	show>certificate
<b>Description</b>	This command shows certificate related statistics.



---

## Login Control

### users

**Syntax**    **users**

**Context**    show

**Description**    Displays console user login and connection information.

**Output**    **Users Output** — The following table describes show users output fields.

**Table 21: Show Users Output Fields**

Label	Description
User	The user name.
Type	The user is authorized this access type.
From	The originating IP address.
Login time	The time the user logged in.
Idle time	The amount of idle time for a specific login.
Number of users	Displays the total number of users logged in.

### Sample Console Users Output

```
A:ALA-7# show users
=====
User           Type    From           Login time      Idle time
=====
testuser       Console --            21FEB2007 04:58:55 0d 00:00:00 A
=====
Number of users : 1
'A' indicates user is in admin mode
=====
A:ALA-7#
```

---

## Clear Commands

### statistics

<b>Syntax</b>	<b>statistics</b> [ <b>interface</b> <i>ip-int-name</i>   <i>ip-address</i> ]
<b>Context</b>	clear>router>authentication
<b>Description</b>	This command clears authentication statistics.
<b>Parameters</b>	<i>ip-int-name</i> — Clears the authentication statistics for the specified interface name. If the string contains special characters (#, \$, spaces, etc.), the entire string must be enclosed within double quotes <i>ip-address</i> — Clears the authentication statistics for the specified IP address.

### ip-filter

<b>Syntax</b>	<b>ip-filter</b> [ <b>entry</b> <i>entry-id</i> ]
<b>Context</b>	clear>cpm-filter
<b>Description</b>	This command clears IP filter statistics.
<b>Parameters</b>	<b>entry</b> <i>entry-id</i> — Specifies a particular CPM IP filter entry. <b>Values</b> 1 — 2048

### mac-filter

<b>Syntax</b>	<b>mac-filter</b> [ <b>entry</b> <i>entry-id</i> ]
<b>Context</b>	clear>cpm-filter
<b>Description</b>	This command clears MAC filter statistics.
<b>Parameters</b>	<b>entry</b> <i>entry-id</i> — Specifies a particular CPM MAC filter entry. <b>Values</b> 1 — 2048

## ipv6-filter

<b>Syntax</b>	<b>ipv6-filter</b> [ <b>entry</b> <i>entry-id</i> ]
<b>Context</b>	clear>cpm-filter
<b>Description</b>	This command clears IPv6 filter information.
<b>Parameters</b>	<b>entry</b> <i>entry-id</i> — Specifies a particular CPM IPv6 filter entry.
<b>Values</b>	1 — 2048

---

## CPU Protection Commands

### cpu-protection

<b>Syntax</b>	<b>cpu-protection</b>
<b>Context</b>	clear
<b>Description</b>	This command enables the context to clear CPU protection data.

### excessive-sources

<b>Syntax</b>	<b>excessive-sources</b>
<b>Context</b>	clear>cpu-protection
<b>Description</b>	This command clears the records of sources exceeding their per-source rate limit.

### protocol-protection

<b>Syntax</b>	<b>protocol-protection</b>
<b>Context</b>	clear>cpu-protection
<b>Description</b>	This command clears the interface counts of packets dropped by protocol protection.

### violators

<b>Syntax</b>	<b>violators [port][interface][sap]</b>
<b>Context</b>	clear>cpu-protection
<b>Description</b>	This command clears the rate limit violator record.
<b>Parameters</b>	<b>port</b> — Clears entries for ports. <b>interface</b> — Clears entries for interfaces. <b>sap</b> — Clears entries for SAPs.

## cpm-queue

<b>Syntax</b>	<b>cpm-queue</b> <i>queue-id</i>
<b>Context</b>	clear
<b>Description</b>	This command clears CPM queue information.
<b>Parameters</b>	<i>queue-id</i> — Specifies the CPM queue ID.
<b>Values</b>	33 — 2000

## radius-proxy-server

<b>Syntax</b>	<b>radius-proxy-server</b> <i>server-name</i> <b>statistics</b>
<b>Context</b>	clear>router
<b>Description</b>	This command clears RADIUS proxy server data.
<b>Parameters</b>	<i>server-name</i> — Specifies the proxy server name. <b>statistics</b> — Clears statistics for the specified server.

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## Debug Commands

### radius

<b>Syntax</b>	<b>radius [detail] [hex]</b> <b>no radius</b>
<b>Context</b>	debug
<b>Description</b>	This command enables debugging for RADIUS connections. The <b>no</b> form of the command disables the debugging.
<b>Parameters</b>	<b>detail</b> — Displays detailed output. <b>hex</b> — Displays the packet dump in hex format.

### OCSP

<b>Syntax</b>	<b>[no] ocs</b>
<b>Context</b>	debug
<b>Description</b>	This command enables debug output of OCSP protocol for the CA profile. The <b>no</b> form of the command disables the debug output.

### ca-profile

<b>Syntax</b>	<b>[no] ca-profile <i>profile-name</i></b>
<b>Context</b>	debug>ocs
<b>Description</b>	This command enables debug output of a specific CA profile.