



# Video Monitoring Commands on Cisco ASR 9000 Series Router

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This chapter describes the commands used to configure and monitor video monitoring service on Cisco ASR 9000 Series Routers.

For detailed information about video monitoring concepts, configuration tasks, and examples, refer to the *Implementing Video Monitoring Service on Cisco ASR 9000 Series Routers* chapter in *Cisco ASR 9000 Series Aggregation Services Router Multicast Configuration Guide*.

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# clear performance traffic clone profile

To clear all packets cloned to a destination, use the **clear performance traffic clone profile** command in EXEC mode.

**clear performance traffic clone profile** *profile name*

## Syntax Description

<i>profile name</i>	Profile name of clone whose packets need to be cleared.
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## Command Default

None

## Command Modes

EXEC

## Command History

Release	Modification
Release 4.0.1	This command was introduced.

## Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes the proper task IDs. If you suspect user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

## Task ID

Task ID	Operation
netflow	read, write

## Examples

This example shows how to execute the **clear performance traffic clone profile** command from the command line interface

```
RE/0/RSP0/CPU0:router#clear performance traffic clone
profile
```

# clear performance traffic statistics

To clear all policy-map statistics, use the **clear performance traffic statistics** command in EXEC mode. This command clears all interval statistics, except the aggregate statistics.

**clear performance traffic statistics interface** *type instance* **input**

Syntax Description	Parameter	Description
	<b>interface</b>	Specifies the particular interface or all interfaces whose statistics must be cleared.
	<b>input</b>	Specifies the direction of traffic.

**Command Default** None

**Command Modes** EXEC

Command History	Release	Modification
	Release 3.9.0	This command was introduced.

**Usage Guidelines** To use this command, you must be in a user group associated with a task group that includes the proper task IDs. If you suspect user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Task ID	Task ID	Operations
	netflow	read, write

**Examples** This example shows how to execute the **clear performance traffic statistics** command from the command line interface:

```
RP/0/RSP0/CPU0:router clear performance traffic statistics interface gigabitEthernet
0/0/0/8 input
```

## show performance traffic alerts

To display the active TCA (Threshold Crossing Alerts), use the **show performance traffic alerts** command in EXEC mode. TCAs are set when the configured parameters are met. TCAs are cleared when the configured parameters are not true. An event is generated for both set and clear.

**show performance traffic alerts interface *type instance* input**

Syntax Description	interface	Specifies a particular interface or all interfaces for which the performance traffic alerts are set.
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**Command Default** None.

**Command Modes** EXEC

Command History	Release	Modification
	Release 3.9.0	This command was introduced.

**Usage Guidelines** To use this command, you must be in a user group associated with a task group that includes the proper task IDs. If you suspect user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Task ID	Task ID	Operations
	netflow	read

**Examples** This is a sample output from the **show performance traffic alerts** command:

```
RP/0/RSP0/CPU0:router# show performance traffic alerts interface ten0/6/0/0 input
Interface: TenGigE0/6/0/0 Direction: input

GROUP Alerts
Class: class1
Num Flows: 1
Num Grouped Alerts: 1
Highest Alert Severity: Warning
React ID      Severity      Metric
-----      -
          4      Critical      Flow Count
```

```

FLOW Alerts
Flow ID: 3496 Class: class1
Num Alerts: 3
Highest Alert Severity: Warning
React ID      Severity      Metric
-----
          1      Critical
          2      Critical      Media Rate Variation
          5      Critical      Delay Factor

```

This table describes the significant fields shown in the display.

**Table 1: show performance traffic alerts Field Descriptions**

Field	Description
Group/Flow Alerts	This alert is grouped or applies to a single flow.
Class	Name of the class-map used in the policy.
Flow ID	Unique identifier for the flow. <b>Note</b> The flow id number will be different for unbind and rebind.
Num Flows	Number of flows that have been set in this group alert.
Num Grouped Alerts	Total number of grouped alerts.
Num Alerts	Total number of alerts set by flow.
Severity	Indicates the configured severity.
Highest Alert Severity	Indicates the highest severity of an alert set.
React ID	Specifies the configured react ID.
Metric	Indicates the type of alert set.

# show performance traffic clone profile

To display the configured trap and clone profiles and the associated clone flows, use the **show performance traffic clone profile** command in EXEC mode.

**show performance traffic clone profile** *profile name*

Syntax Description	<i>profile name</i>	Profile name of clone.
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**Command Default** None

**Command Modes** EXEC

Command History	Release	Modification
	Release 4.0.1	This command was introduced.

**Usage Guidelines** To use this command, you must be in a user group associated with a task group that includes the proper task IDs. If you suspect user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Task ID	Task ID	Operation
	netflow	read

**Examples** This example shows how to execute the **show performance traffic clone profile** command from the command line interface

```

RP/0/RSP0/CPU0:router#show performance traffic clone
profile
-----
Total number of trap and clone profiles: 3
-----
Profile Name: profile1                                ID: 1
-----
description:                                         new_profile
egress interface:                                   GigabitEthernet0_0_0_8
total number of clone flows: 2
-----
clone  id      source      destination
     1      2.2.2.2    229.1.1.1
     2      2.2.2.2    229.1.1.2
-----

```

```
Profile Name: profile2                                     ID: 2
-----
description:                second profile
egress interface:          GigabitEthernet0_0_0_19
total number of clone flows: 5
-----
clone id      source      destination
   1      1.1.1.1      229.1.1.10
   2      1.1.1.1      229.1.1.11
   3      1.1.1.1      229.1.1.12
   4      1.1.1.1      229.1.1.14
   5      1.1.1.1      229.1.1.15
-----
Profile Name: profile3                                     ID: 3
-----
description:                third profile
egress interface:          TenGigE0_2_0_1
total number of clone flows: 13
-----
clone id      source      destination
   1      12.12.12.12  233.1.1.1
   2      12.12.12.12  233.1.1.2
   3      12.12.12.12  233.1.1.3
   4      12.12.12.12  233.1.1.4
   5      12.12.12.12  233.1.1.5
   6      12.12.12.12  233.1.1.6
   7      12.12.12.12  233.1.1.7
   8      12.12.12.12  233.1.1.8
   9      12.12.12.12  233.1.1.10
  10      12.12.12.12  233.1.1.11
  11      12.12.12.12  233.1.1.12
  12      12.12.12.12  233.1.1.16
  13      12.12.12.12  233.1.1.18
```

# show policy-map type performance-traffic

To display the policy-map statistics of video monitoring features, use the **show policy-map type performance-traffic** command in EXEC mode. This command helps you to monitor the Quality of Experience (QoE) of the service provider's video flows.

**show policy-map type performance-traffic interface** *type instance* [**aggregate** | **brief** | **cumulative** | **detail** | **input** | **last** | **match**]

## Syntax Description

<b>interface</b> <i>type instance</i>	Specifies particular interface to display.
<b>aggregate</b>	(Optional) Displays total number of flows and last time changed.
<b>brief</b>	(Optional) Displays only key metrics.
<b>cumulative</b>	(Optional) Displays cumulative statistics over the life time of the flow.
<b>detail</b>	(Optional) Displays detailed metrics.
<b>input</b>	(Optional) Displays input traffic policy.
<b>last</b>	(Optional) Displays last <i>n</i> intervals.
<b>match</b>	(Optional) Specifies match criteria to filter.

## Command Default

The command default is 1.

## Command Modes

EXEC

## Command History

Release	Modification
Release 3.9.0	This command was introduced.

## Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes the proper task IDs. If you suspect user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

## Task ID

Task ID	Operations
netflow	read



**Examples**

These are various sample outputs from the **show policy-map type performance-traffic** command:

```
RP/0/RSP0/CPU0:router# show policy-map type performance-traffic interface tenGigE 0/6/0/0
brief
```

```
-----
Interface:      TenGigE0/6/0/0      Direction: input
Service-Policy: policy1
-----
Total Num Flows: 2
FlowID  Flow Key                               MRV(%)  DF (ms)
-----  -----
   3528  6.1.1.2:4000      -> 225.0.0.1:4000      UDP      0.000    3.337
   3496  6.1.1.2:4000      -> 225.0.0.101:4000    UDP      50.000   2502.220
-----

Class Name                               Num-Flows
-----
class1                                   2
-----
```

```
RP/0/RSP0/CPU0:router#show policy-map type performance-traffic interface tenGigE0/6/0/0
aggregate brief
```

```
Interface: TenGigE0/6/0/0 Direction: input

Number of flows      : 2
Last flow add/delete : Tue Nov  3 13:46:56 2009
```

```
RP/0/RSP0/CPU0:ios#show policy-map type performance-traffic interface ten0/6/0/0 detail
Tue Nov  3 13:52:02.046 EST
```

```
-----
Interface:      TenGigE0/6/0/0      Direction: input
Service-Policy: policy1
-----
Total Num Flows: 2

Flow: 3528      Key: 6.1.1.2:4000 -> 225.0.0.1:4000 UDP
Class: class1                                     Total Intvls: 1
Intvl#  1, Updated at: Tue Nov  3 13:51:56 2009, Duration: 10 s
Metric type:      IP-CBR
MRV:              0.000 %                       DF:              3.338 ms
Avg Packet Rate:  300.00 pps                     Total Packets:   3000
Avg Bit Rate:     3158 kbps                       Total Bytes:     3948000
Avg Packet Len:   1316.00 B
IPv4 TTL:         63

Flow: 3496      Key: 6.1.1.2:4000 -> 225.0.0.101:4000 UDP
Class: class1                                     Total Intvls: 1
Intvl#  1, Updated at: Tue Nov  3 13:51:54 2009, Duration: 10 s
Metric type:      IP-CBR
MRV:              50.000 %                       DF:              2502.220 ms
Avg Packet Rate:  450.00 pps                     Total Packets:   4500
Avg Bit Rate:     4737 kbps                       Total Bytes:     5922000
Avg Packet Len:   1316.00 B
IPv4 TTL:         63

-----

Class Name                               Num-Flows
-----
class1                                   2
-----
```

```
RP/0/RSP0/CPU0:router#show policy-map type performance-traffic interface tenGigE0/6/0/0
last 5
```

```
-----
Interface:      TenGigE0/6/0/0      Direction: input
```

## show policy-map type performance-traffic

```
Service-Policy: policy1
```

```
-----
Total Num Flows: 2
```

```
Flow: 3528      Key: 6.1.1.2:4000 -> 225.0.0.1:4000 UDP
Class: class1      Total Intvls: 5
  Intvl#  Updated at          Durn  MRV(%)  DF(ms)
    1     Tue Nov 3 13:53:26 2009   10    0.000   3.337
    2     Tue Nov 3 13:53:16 2009   10    0.000   3.337
    3     Tue Nov 3 13:53:06 2009   10    0.000   3.337
    4     Tue Nov 3 13:52:56 2009   10    0.000   3.337
    5     Tue Nov 3 13:52:46 2009   10    0.000   3.337
```

```
Flow: 3496      Key: 6.1.1.2:4000 -> 225.0.0.101:4000 UDP
Class: class1      Total Intvls: 5
  Intvl#  Updated at          Durn  MRV(%)  DF(ms)
    1     Tue Nov 3 13:53:24 2009   10   50.000 2502.220
    2     Tue Nov 3 13:53:14 2009   10   50.000 2502.220
    3     Tue Nov 3 13:53:04 2009   10   50.000 2502.220
    4     Tue Nov 3 13:52:54 2009   10   50.000 2502.220
    5     Tue Nov 3 13:52:44 2009   10   50.000 2502.220
```

```
-----
Class Name          Num-Flows
-----
class1              2
-----
```

```
RP/0/RSP0/CPU0:router#show policy-map type performance-traffic interface tenGigE0/6/0/0
match flow-id 3496
```

```
-----
Interface:      TenGigE0/6/0/0      Direction: input
Service-Policy: policy1
-----
Total Num Flows: 2
FlowID  Flow Key          MRV(%)  DF (ms)
-----
  3496  6.1.1.2:4000      -> 225.0.0.101:4000  UDP    50.000  2502.220
-----
Num Flows Displayed: 1
-----
```

This table describes the significant fields shown in the display.

**Table 2: show policy-map type performance traffic command Descriptions**

Field	Description
DF	Delay Factor.
Mrv	Media Rate Variation.
Total intvls	Number of user-defined intervals.
Service-policy	Name of the service-policy for this flow.
Duration	Length of an interval.
Num-flows	Total number of flows matching this policy.
Flow	Unique flow-ID



```
show policy-map type performance-traffic
```