



## CHAPTER 4

# Monitoring VAS Traffic Forwarding

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## Introduction

Use these commands to display the following information for VAS configuration and operational status summary.

- Global VAS status summary — VAS mode, the traffic link used
- VAS Server Groups information summary — operational status, number of configured servers, number of current active servers.

This information may be displayed for a specific server group or all server groups

- VAS servers information summary — operational status, Health Check operational status, number of subscribers attached to this server.

This information may be displayed for a specific server or all servers

- Bandwidth per VAS server and VAS direction (to VAS / from VAS)
- VAS health check counters

Sample outputs are included.

## How to Display Global VAS Status and Configuration

### SUMMARY STEPS

1. `enable 5`
2. `show interface linecard 0 VAS-traffic-forwarding`

### DETAILED STEPS

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- Step 1**    `enable 5`  
Enables viewer mode. Enter your password if prompted.
- Step 2**    `show interface linecard 0 VAS-traffic-forwarding`

Displays the global VAS status and configuration.

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## Example

```
SCE> show interface linecard 0 VAS-traffic-forwarding
VAS traffic forwarding is enabled
VAS traffic link configured: Link-1  actual: Link-1
```

## How to Display Operational and Configuration Information for a Specific VAS Server Group

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- Step 1** From the SCE> prompt, type **show interface linecard 0 VAS-traffic-forwarding VAS server-group *id-number*** and press **Enter**.
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## Example

```
SCE> show interface linecard 0 VAS-traffic-forwarding VAS server-group 0
VAS server group 0:
State: Failure  configured servers: 0  active servers: 0
minimum active servers required for Active state: 1  failure action: Pass
```

## How to Display Operational and Configuration Information for All VAS Server Groups

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- Step 1** From the SCE> prompt, type **show interface linecard 0 VAS-traffic-forwarding VAS server-group all** and press **Enter**.
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## How to Display Operational and Configuration Information for a Specific VAS Server

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- Step 1** From the SCE> prompt, type **show interface linecard 0 VAS-traffic-forwarding VAS server-id *id-number*** and press **Enter**.
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## Example

```
SCE> show interface linecard 0 VAS-traffic-forwarding VAS server-id 0
VAS server 0:
Configured mode: enable  actual mode: enable  VLAN: 520  server group: 3
State: UP
```

```

Health Check configured mode: enable status: running
Health Check source port: 63140 destination port: 63141
Number of subscribers:          0

```

## How to Display Operational and Configuration Information for All VAS Servers

- Step 1** From the SCE> prompt, type **show interface linecard 0 VAS-traffic-forwarding VAS server-id all** and press **Enter**.

## How to Display the VAS Servers Used by a Specified Subscriber

- Step 1** From the SCE> prompt, type **show interface linecard 0 subscriber name *subscriber-name* VAS-servers** and press **Enter**.

## How to Display Health Check Counters for a Specified VAS Server

- Step 1** From the SCE> prompt, type **show interface linecard 0 VAS-traffic-forwarding VAS server-id *id-number* counters health-check** and press **Enter**.

### Example

```

SCE>show interface linecard 0 VAS-traffic-forwarding VAS server-id 0
Health Checks statistics for VAS server '0'   Upstream   Downstream
-----
Flow Index '0'
-----
Total packets sent                :          31028 :          31027 :
Total packets received            :          31028 :          31027 :
Good packets received             :          31028 :          31027 :
Error packets received            :              0 :              0 :
Not handled packets              :              0 :              0 :
Average roundtrip (in millisecond) :              0 :              0 :
Error packets details             :              :              :
-----
Reordered packets                :              0 :              0 :
Bad Length packets               :              0 :              0 :
IP Checksum error packets        :              0 :              0 :
L4 Checksum error packets        :              0 :              0 :
L7 Checksum error packets        :              0 :              0 :
Bad VLAN tag packets            :              0 :              0 :
Bad Device ID packets           :              0 :              0 :
Bad Server ID packets           :              0 :              0 :

```

## How to Display Health Check Counters for All VAS Servers

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- Step 1** From the SCE> prompt, type **show interface linecard 0 VAS-traffic-forwarding VAS server-id all counters health-check** and press **Enter**.
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## How to Clear the Health Check Counters for a Specified VAS Server

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- Step 1** From the SCE> prompt, type **clear interface linecard 0 VAS-traffic-forwarding VAS server-id id-number counters health-check** and press **Enter**.
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## How to Clear the Health Check Counters for All VAS Servers

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- Step 1** From the SCE> prompt, type **clear interface linecard 0 VAS-traffic-forwarding VAS server-id all counters health-check** and press **Enter**.
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## How to Display Bandwidth per VAS Server and VAS Direction

Note that the bandwidth presented in this command is measured at the Transmit queues, therefore the first table in the example presents the bandwidth of traffic transmitted towards the VAS servers and the second table presents the bandwidth of traffic transmitted out of the SCE platform after being handled by the VAS servers.

The counting is based on L2 bytes.

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- Step 1** From the SCE> prompt, type **show interface linecard 0 counters VAS-traffic-bandwidth** and press **Enter**.
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### Example

```
SCE>show interface linecard 0 counters VAS-traffic-bandwidth
Traffic sent to VAS processing TxBW [Kbps] (bytes are counted from Layer 2):
```

Port 1	Port 2	Port 3	Port 4		
-----	-----	-----	-----		
VAS server id 0:		0	0	0	0
VAS server id 1:		0	0	0	0
VAS server id 2:		0	0	0	0
VAS server id 3:		0	0	0	0
VAS server id 4:		0	0	0	0
VAS server id 5:		0	0	0	0
VAS server id 6:		0	0	0	0
VAS server id 7:		0	0	0	0

Traffic after VAS processing TxBW [Kbps] (bytes are counted from Layer 2):

Port 1	Port 2	Port 3	Port 4		
-----	-----	-----	-----		
VAS server id 0:		0	0	0	0
VAS server id 1:		0	0	0	0
VAS server id 2:		0	0	0	0
VAS server id 3:		0	0	0	0
VAS server id 4:		0	0	0	0
VAS server id 5:		0	0	0	0
VAS server id 6:		0	0	0	0
VAS server id 7:		0	0	0	0

