



## CHAPTER 4

# Monitoring VAS Traffic Forwarding

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Revised: February 01, 2013, OL-26815-02

## Introduction

Use the commands described in this chapter 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

The following 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

The following information may be displayed for a specific server or all servers:

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

Sample outputs are included.

## How to Display Global VAS Status and Configuration

At the SCE> prompt, enter the **show interface linecard 0 VAS-traffic-forwarding** command and press **Enter**.

### 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

At the SCE> prompt, enter the **show interface linecard 0 VAS-traffic-forwarding VAS server-group *id-number*** command and press **Enter**.

### 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

At the SCE> prompt, enter the **show interface linecard 0 VAS-traffic-forwarding VAS server-group all** command and press **Enter**.

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

At the SCE> prompt, enter the **show interface linecard 0 VAS-traffic-forwarding VAS server-id *id-number*** command and press **Enter**.

### 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

At the SCE> prompt, enter the **show interface linecard 0 VAS-traffic-forwarding VAS server-id all** command and press **Enter**.

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

At the SCE> prompt, enter the **show interface linecard 0 subscriber name *subscriber-name* VAS-servers** command and press **Enter**.

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

At the SCE> prompt, enter the **show interface linecard 0 VAS-traffic-forwarding VAS server-id id-number counters health-check** command 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

At the SCE> prompt, enter the **show interface linecard 0 VAS-traffic-forwarding VAS server-id all counters health-check** command and press **Enter**.

## How to Clear the Health Check Counters for a Specified VAS Server

At the SCE> prompt, enter the **clear interface linecard 0 VAS-traffic-forwarding VAS server-id id-number counters health-check** command and press **Enter**.

## How to Clear the Health Check Counters for All VAS Servers

At the SCE> prompt, enter the **clear interface linecard 0 VAS-traffic-forwarding VAS server-id all counters health-check** command and press **Enter**.

## How to Display Bandwidth Per VAS Server and VAS Direction

The bandwidth presented in the **VAS-traffic-bandwidth** command is measured at the Transmit queues. The first table in the example presents the bandwidth of traffic transmitted towards the VAS servers. The second table presents the bandwidth of traffic transmitted out of the SCE platform after the VAS servers processed the traffic.

The counting is based on Layer 2 bytes.

At the SCE> prompt, enter the **show interface linecard 0 counters VAS-traffic-bandwidth** command and press **Enter**.

### 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