

## Chapter 28

# Service Sets Operational Mode Commands

Table 52 summarizes the command-line interface (CLI) commands you can use to monitor and troubleshoot service sets. In the table, the commands are grouped by functionality. In the remainder of this chapter, they are explained alphabetically.

**Table 52: Commands for Monitoring Service Sets**

Task or Information to Monitor	CLI Command
Display resource usage for service sets.	show services service-sets cpu-usage on page 383 show services service-sets memory-usage on page 384

### show services service-sets cpu-usage

<b>Syntax</b>	show services service-sets cpu-usage <interface> <service-set>
<b>Description</b>	Display service interface CPU utilization as a percentage.
<b>Options</b>	<i>interface</i> —Display information about a particular adaptive services interface.  <i>service-set</i> —Display information about a particular service set. For the Layer 2 Tunneling Protocol (L2TP), you can use a tunnel group to represent a service set.
<b>Required Privilege Level</b>	view
<b>Output Fields</b>	Interface—Name of an adaptive services interface.  Service set—Name of a service set.  CPU Utilization %—Percentage of the CPU resources being used.
<b>Sample Output: show services service-sets cpu-usage</b>	<pre>user@host&gt; show services service-sets cpu-usage Interface  Service set      CPU utilization % sp-1/3/0  blue              0.00</pre>
<b>See Also</b>	“L2TP Services Interfaces Operational Mode Commands” on page 397

## show services service-sets memory-usage

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**Syntax** show services service-sets memory-usage <interface> <service-set> <zone>

**Description** Display service interface memory utilization as a percentage or as a zone.

**Options** None—Displays the service interface memory utilization as a percentage.

interface—(optional) Display information about a particular adaptive services interface.

service-set—(optional) Display information about a particular service set. For L2TP, you can use a tunnel group to represent a service set.

zone—(optional) Display the memory usage zone of the adaptive services interface or of an individual service set.

**Required Privilege Level** view

**Output Fields** Interface—Name of an adaptive services interface.

Service set—Name of a service set.

Memory Utilization %—Percentage of the memory resources being used.

Memory zone—Memory zone in which the adaptive services interface is currently operating. The valid zones are:

Green—All new flows are allowed.

Yellow—Unused memory is reclaimed. All new flows are allowed.

Orange—New flows are only allowed for service sets that are using less than their equal share of memory.

Red—No new flows are allowed.

**Sample Output: show services service-sets memory-usage**

```
user@host> show services service-sets memory-usage
Interface  Service set      Memory utilization %
sp-1/3/0  blue              44
```

**Sample Output: show services service-sets memory-usage zone**

```
user@host> show services service-sets memory-usage zone
Interface  Memory zone
sp-1/3/0   Green
```

**See Also** “L2TP Services Interfaces Operational Mode Commands” on page 397