



Monitoring the Service

This chapter provides information for monitoring service status and performance using the **show** commands found in the Command Line Interface (CLI). These command have many related keywords that allow them to provide useful information on all aspects of the system ranging from current software configuration through call activity and status.

The selection of keywords described in this chapter is intended to provided the most useful and in-depth information for monitoring the system. For additional information on these and other **show** command keywords, refer to the *Command Line Interface Reference*.

In addition to the CLI, the system supports the sending of Simple Network Management Protocol (SNMP) traps that indicate status and alarm conditions. Refer to the *SNMP MIB Reference Guide* for a detailed listing of these traps.

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Monitoring System Status and Performance

To do this:	Enter this command:
View Congestion-Control Information	
View Congestion-Control Statistics	
View Congestion-Control Statistics	show congestion-control statistics { a11mgr ipsecmgr }
View Subscriber Information	
Display Session Resource Status	
View session resource status	show resources session
Display Subscriber Configuration Information	
View locally configured subscriber profile settings (must be in context where subscriber resides)	show subscribers configuration username <i>subscriber_name</i>
View remotely configured subscriber profile settings	show subscribers aaa-configuration username <i>subscriber_name</i>
View Subscribers Currently Accessing the System	

To do this:	Enter this command:
View a listing of subscribers currently accessing the system	show subscribers all
View Statistics for Subscribers using HSGW Services on the System	
View statistics for subscribers using any HSGW service on the system	show subscribers hsgw-only full
View statistics for subscribers using a specific HSGW service on the system	show subscribers hsgw-service <i>service_name</i>
View Statistics for Subscribers using MAG Services on the System	
View statistics for subscribers using any MAG service on the system	show subscribers mag-only full
View statistics for subscribers using a specific MAG service on the system	show subscribers mag-service <i>service_name</i>
View Session Subsystem and Task Information	
Display Session Subsystem and Task Statistics Refer to the System Software Task and Subsystem Descriptions appendix in the System Administration Guide for additional information on the Session subsystem and its various manager tasks.	
View AAA Manager statistics	show session subsystem facility aaamgr all
View AAA Proxy statistics	show session subsystem facility aaaproxy all
View Session Manager statistics	show session subsystem facility sessmgr all
View MAG Manager statistics	show session subsystem facility magmgr all
View Session Recovery Information	
View session recovery status	show session recovery status [verbose]
View Session Disconnect Reasons	
View session disconnect reasons with verbose output	show session disconnect-reasons
View HSGW Service Information	
View HSGW service statistics	show hsgw-service statistics all
View MAG Service Information	
View MAG service statistics for a specific service	show mag-service statistics name <i>service_name</i>
View QoS/QCI Information	
View RAN Profile ID to QoS Class Index mapping tables	show profile-id-qci-mapping table all
View QoS Class Index to QoS mapping tables	show qci-qos-mapping table all

Clearing Statistics and Counters

It may be necessary to periodically clear statistics and counters in order to gather new information. The system provides the ability to clear statistics and counters based on their grouping (PPP, MIPHA, MIPFA, etc.).

Statistics and counters can be cleared using the CLI **clear** command. Refer to Command Line Reference for detailed information on using this command.

