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.

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** *subscriber_name*
View remotely configured subscriber profile settings	**show subscribers aaa-configuration username** *subscriber_name*
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** *service_name*
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** *service_name*
View Session Subsystem and Task Information	
Display Session Subsystem and Task StatisticsRefer 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** *service_name*
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.