



## Monitoring the SaMOG Gateway

This chapter provides information for monitoring the status and performance of the SaMOG (S2a Mobility Over GTP) Gateway using the **show** commands found in the CLI (Command Line Interface). 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 **show** commands listed 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** commands and keywords, refer to the *Command Line Interface Reference*.

The system also supports the sending of Simple Network Management Protocol (SNMP) traps that indicate status and alarm conditions. See the *SNMP MIB Reference* for a detailed listing of these traps.

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## Monitoring SaMOG Gateway Status and Performance

The following table contains the CLI commands used to monitor the status of the SaMOG Gateway features and functions. Output descriptions for most of the commands are located in the *Statistics and Counters Reference*.

**Table 1: SaMOG Gateway Status and Performance Monitoring Commands**

To do this:	Enter this command:
<b>View Service Information and Statistics</b>	
View SaMOG service information and statistics.	<b>show samog-service</b> { all   name <i>service_name</i> }
View additional SaMOG service statistics.	<b>show samog-service statistics</b> { all   samog-service <i>service_name</i> }
View CGW service information and statistics.	<b>show cgw-service</b> { all   name <i>service_name</i> }
View MRME service information and statistics.	<b>show mrme-service</b> { all   name <i>service_name</i> }
View additional session statistics.	<b>show session disconnect-reasons</b> <b>show session duration</b>

<b>To do this:</b>	<b>Enter this command:</b>
View SaMOG Gateway bulk statistics.	<b>show bulkstats variables samog</b>
View bulk statistics for the system.	<b>show bulkstats data</b>
<b>View Diameter AAA Server Information</b>	
View Diameter AAA server statistics.	<b>show diameter aaa-statistics all</b>
View Diameter message queue counters.	<b>show diameter message-queue counters { inbound   outbound }</b>
View Diameter statistics.	<b>show diameter statistics</b>
<b>View Subscriber Information</b>	
View Subscriber Configuration Information	
View locally configured subscriber profile settings (must be in the context where the subscriber resides).	<b>show subscribers configuration username</b> <i>subscriber_name</i>
View remotely configured subscriber profile settings.	<b>show subscribers aaa-configuration username</b> <i>subscriber_name</i>
View subscriber information based on IPv6 address.	<b>show subscribers ipv6-address</b> <i>ipv6_address</i>
View subscriber information based on IPv6 address prefix.	<b>show subscribers ipv6-prefix</b> <i>prefix</i>
View subscriber information based on caller ID.	<b>show subscribers callid</b> <i>call_id</i>
View subscriber information based on username.	<b>show subscribers username</b> <i>name</i>
View information for troubleshooting subscriber sessions.	<b>show subscribers debug-info</b>
View a summary of subscriber information.	<b>show subscribers summary</b>
View Subscribers Currently Accessing the System	
View a list of subscribers currently accessing the system.	<b>show subscribers all</b>
View a list of SaMOG Gateway subscribers currently accessing the system.	<b>show subscribers samog-only [ all   full ]</b>
View a list of SaMOG Gateway subscribers currently accessing the system per SaMOG service.	
View the P-CSCF addresses received from the P-GW.	<b>show subscribers full username</b> <i>subscriber_name</i>
View statistics for subscribers using a LMA service on the system.	<b>show subscribers lma-only [ all   full   summary ]</b>

To do this:	Enter this command:
View statistics for subscribers using a LMA service per LMA service.	<b>show subscribers lma-service</b> <i>service_name</i>
<b>View Session Subsystem and Task Information</b>	
View Session Subsystem Statistics <b>Important</b> Refer to the <i>System Administration Guide</i> for additional information on the Session subsystem and its various manager tasks.	
View AAA Manager statistics.	<b>show session subsystem facility aaamgr all</b>
View AAA Proxy statistics.	<b>show session subsystem facility aaaproxy all</b>
View Session Manager statistics.	<b>show session subsystem facility sessmgr all</b>
View LMA Manager statistics.	<b>show session subsystem facility magmgr all</b>
View session progress information for the SaMOG service.	<b>show session progress samog-service</b> <i>service_name</i>
View session duration information for the SaMOG service.	<b>show session duration samog-service</b> <i>service_name</i>
View Task Statistics	
View resource allocation and usage information for Session Manager.	<b>show task resources facility sessmgr all</b>
<b>View Session Resource Status</b>	
View session resource status.	<b>show resources session</b>
<b>View Session Recovery Status</b>	
View session recovery status.	<b>show session recovery status [ verbose ]</b>
<b>View Session Disconnect Reasons</b>	
View session disconnect reasons.	<b>show session disconnect-reasons</b>

## 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.

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

