

# show location-service

This chapter describes the output of the **show location-service** command.


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# show location-service service all

Displays configuration information for all Location services (LCS) configured on the system.

***Table 1: show location-service service all Command Output Descriptions***

| Field | Description |
|---|---|
| Service name | The name of the Location service configured on the system. |
| Context | The name of the context in which this Location service is configured on the system. |
| Status | The state of the Location service, either STARTED or NOT STARTED. The status will display STARTED if a valid diameter endpoint is associated with this locations service. |
| Diameter endpoint | The Diameter endpoint configured for this Location service. |
| Diameter dictionary | The Diameter dictionary configured for this Location service. |
| Map Service | The MAP service configured for this Location service. |
| SLS service | The name of the SLs service associated with this Location service. |
| LCSN timer | SGSN only: Displays the configuration of the Location service **timeout lcsn** command. |
| UE AVAILABLE GUARD timer | SGSN only: Displays the configuration of the Location service **timeout ue-available-guard-timer** command. |
| AREA EVENT INVOKE timer | SGSN only: Displays the configuration of the Location service **timeout area-event-invoke-timer** command. |

| Field | Description |
|---|---|
| PERIODIC EVENT INVOKE timer | SGSN only: Displays the configuration of the Location service **timeout periodic-event-invoke-timer** command. |
| Destination Host | Displays the configuration of the Location service **destination-host** command, showing either the configured destination host or NA if not configured. If this command is not configured, the peer host name configured in the diameter endpoint is encoded as destination-host AVP. |
| SLR trigger for Emergency calls | Displays the configuration of the Location Service **slr emergency dedicated-bearer-only** command. This field displays **Dedicated Bearer Only** when configuration is enabled and **Attach or PDN** when configuration is disabled. |

# show location-service statistics all

Displays Location services (LCS) statistics for all Location services configured on the system.

***Table 2: show location-service statistics all Command Output Descriptions***

| Field | Description |
|---|---|
| **Message Statistics** | |
| PSL Request | The total number of Provide Subscriber Location Request messages received. |
| PSL Answer | The total number of Provide Subscriber Location Answer messages sent. |
| PSL Request Dropped | The total number of Provide Subscriber Location Request messages dropped. |
| PSL Answer Dropped | The total number of Provide Subscriber Location Answer messages dropped. |
| LR Request | The total number of Network Induced Location Request (NI-LR) request messages initiated by the MME. |
| LR Request Dropped | The total number of Location Request messages that were dropped (could not be sent) as a result of the peer being down. |
| LR Answer | The total number of Location Request acknowledge messages received. |
| LR Answer Dropped | The total number of Location Request acknowledge messages dropped. This can occur when the user name in the acknowledge message does not match that sent in the request.<br>**Important** In Release 16.0 and later, this counter is deprecated. |

| Field | Description |
|---|---|
| LR Answer Timeout | The total number of Location Request acknowledge messages expected but not received before the timer expired. |
| **Message Error Statistics** | |
| User Unknown | The total number of times the PLR was received for an unknown user (Error code: 5001). |
| Unauthorized Requestion Network | The total number of times the requesting GMLC's network was not authorized to request UE location information (Error code: 5490). |
| Unreachable User | The total number of times a PLR was received for a user which could not be reached (Error code: 4221) |
| Suspended User | The total number of times the PLR was received for a user who is suspended in the MME (Error code: 4222). |
| Detached User | The total number of times where the PLR was received for a detached user (Error code: 4223). |
| Positioning Denied | The total number of times the positioning procedure was denied (Error code: 4224). |
| Positioning Failed | The total number of times the positioning procedure failed (Error code: 4225). |
| Unreachable LCS Client | The total number of times the GLMC indicated that the LCS Client was not known or could not be reached (Error code: 4226). |
| Other Errors | The total number of PLA messages received with other error result codes. |
| **Location Report Event Statistics** | |
| Events Sent: | |
| Call Origination | Total number of Call-Origination events sent when SLR message is triggered towards GMLC. |
| Call Release | Total number of Call-Release events sent when SLR message is triggered towards GMLC. |
| Call Handover | Total number of Call-Handover events sent when SLR message is triggered towards GMLC. |
| Events Dropped: | |
| Call Origination | Total number of Call-Origination events dropped when SLR message is triggered towards GMLC. |
| Call Release | Total number of Call-Release events dropped when SLR message is triggered towards GMLC. |
| Call Handover | Total number of Call-Handover events dropped when SLR message is triggered towards GMLC. |