

Location Service Configuration Mode Commands

The Location Service Configuration Mode is used to manage LoCation Services (LCS). Using LCS, the system (MME or SGSN) can collect and use or share location (geographical position) information for connected UEs in support of a variety of location services.

Command Modes	Exec > Global Configuration > Context Configuration > Location Service Configuration
	<pre>configure > context context_name > location-service service_name</pre>
	Entering the above command sequence results in the following prompt:
	[context_name]host_name(config-location-service)#
(
Important	The commands or keywords/variables that are available are dependent on platform type, product version, and installed license(s).
	associate, on page 1
	destination-host, on page 3
	• end, on page 3
	• exit, on page 4
	• pla, on page 4
	• slr, on page 5
	• timeout, on page 6
associate	
	Associates or disassociates supportive interfaces or services with this location service instance.

Product	MME SGSN
Privilege	Administrator
Command Modes	Exec > Global Configuration > Context Configuration > Location Service Configuration
	<pre>configure > context context_name > location-service service_name</pre>

Entering the above command sequence results in the following prompt:

```
[context name]host name(config-location-service)#
```

Syntax Description

```
associate { diameter { dictionary standard | endpoint endpoint_name } |
map-service map_svc_name | sls-service sls_svc_name }
default associate diameter dictionary
no associate { diameter endpoint | map-service | sls-service }
```

default

Returns the command to its default value of 'standard'.

no

Disassociates a previously associated interface or service with this location service.

diameter dictionary standard

Associates a Diameter dictionary with this location service. The standard dictionary contains definitions per the 3GPP definition.

diameter endpoint endpoint_name

Specifies the Diameter endpoint for this location service, which includes the hostname, peer configuration, and other Diameter base configuration.

map-service map_svc_name

Associates a Mobile Application Part (MAP) service with this location service.

This keyword is applicable for SGSN only.

map sv svc name specifies the name for a pre-configured MAP service to associate with this location service.

sls-service sls_svc_name

Associates an SLs service with this location service. The SLs service provides an interface between the MME and Evolved Serving Mobile Location Center (E-SMLC).

This keyword is applicable for MME only.

sls_svc_name specifies the name for a pre-configured SLs service to associate with this location service.

Usage Guidelines Use this command to specify the Diameter dictionary and endpoint to be used for this location service, or associate supportive services with this location service.

The location service provides SLg (MME) interface support or Lg (SGSN) interface support via the Diameter protocol between the MME or SGSN and the GLMC.

Example

The following command associates a pre-configured Diameter endpoint named *test12* to this location service:

associate diameter endpoint test12

destination-host

	Configures the host name of the GLMC to be used for this Location service. When defined, this host name is populated in the destination-host AVP.
Product	MME
Privilege	Administrator
Command Modes	Exec > Global Configuration > Context Configuration > Location Service Configuration
	<pre>configure > context context_name > location-service service_name</pre>
	Entering the above command sequence results in the following prompt:
	[context_name]host_name(config-location-service)#
Syntax Description	destination-host destination_host no destination-host
	no
	Removes the configured destination host.
	destination_host
	Defines the host name to be used, as an alphanumeric string from 1 to 63 characters.
Usage Guidelines	To comply with 3GPP TS29.172, the Destination-Host AVP is sent to the GMLC for all the Location Report Request (LRR) messages initiated by MME.
	Use this command to configure the destination-host AVP for this Location service.
	If this command is not configured, the peer host name configured in the diameter endpoint is encoded as Destination-Host AVP. Refer to the peer command in the Diameter Endpoint Configuration Mode.
	Example
	The following command specifies a destination host named <i>host123</i> for the location service:
	destination-host host123
end	

Exits the current configuration mode and returns to the Exec mode.

Product	All
Privilege	Security Administrator, Administrator
Syntax Description	end

Location Service Configuration Mode Commands

Use this command to return to the Exec mode.

exit

Exits the current mode and returns to the parent configuration mode.

Product	All
Privilege	Security Administrator, Administrator
Syntax Description	exit
Usage Guidelines	Use this command to return to the parent configuration mode.

pla

Configures the experimental result code for pla.

Product	MME
Privilege	Administrator
Command Modes	Exec > Global Configuration > Context Configuration > Location Service Configuration configure > context _name > location-service service_name
	Entering the above command sequence results in the following prompt:
	[context_name]host_name(config-location-service)#
Syntax Description	<pre>pla ue-state [detached not-reachable]send experimental-result-codeexperimental_result_code [no] pla ue-state [detached not-reachable]send experimental-result-code</pre>
	no
	Disables the experimental result code for pla.
	ue-state
	Specifies that the pla can be either not-reachable (No paging Response) or detached.
	detached
	Specifies the UE disconnecting.
	not-reachable

send

Specifies sending of ue-state.

experimental-result-code experimental_result_code

Specifies the result code value to be encoded in PLA depending on ue-state when PLR is received with GMLC Location type set to Current or Last Known Location.

experimental result code must be an integer between 1000 and 6000.

slr

Controls the Subscriber Location Report (SLR) trigger generated from MME towards GMLC for emergency calls, based on the dedicated bearer states either creation or deletion.

Product	MME
Privilege	Administrator
Command Modes	Exec > Global Configuration > Context Configuration > Location Service Configuration
	<pre>configure > context context_name > location-service service_name</pre>
	Entering the above command sequence results in the following prompt:
	[context_name]host_name(config-location-service)#
Syntax Description	[no] slr emergency dedicated-bearer-only
	no
	Disables the SLR trigger for dedicated bearer states.
	slr
	Specifies the SLR message from MME.
	emergency
	Specifies the trigger for sending the SLR message for emergency calls.
	dedicated-bearer-only
	Specifies the MME to trigger SLR towards GMLC upon dedicated bearer creation and deletion.
Usage Guidelines	Use this command to enable or disable the Subscriber Location Report (SLR) message trigger for emergency calls based on the dedicated bearer states either creation or deletion. In case of multiple dedicated bearers, SLR message with Call-Origination is sent upon the creation of first dedicated bearer and Call-Release is sent upon the deletion of last dedicated bearer irrespective of QCI. This command will override the current/default behavior of MME which initiates the SLR towards GMLC only upon Emergency Attach/PDN creation/PDN deletion and Detach.

slr

By default, MME triggers the SLR message towards GMLC upon successful Emergency Attach/PDN creation/PDN deletion and Detach with appropriate event type (Call-Origination/Call-Release/Call-Handover).

timeout

Configures the timers used to control various location service procedures.

Product	SGSN
Privilege	Administrator
Command Modes	Exec > Global Configuration > Context Configuration > Location Service Configuration configure > context _name > location-service service_name
	Entering the above command sequence results in the following prompt:
	[context_name]host_name(config-location-service)#
Syntax Description	<pre>timeout { area-event-invoke-timer area_event_timer lcsn lcsn_seconds periodic-event-invoke-timer period_event_timer ue-available-guard-timer ue_guard_timer } default timeout { area-event-invoke-timer lcsn periodic-event-invoke-timer ue-available-guard-timer }</pre>
	default
	Resets the specified timer to the default value.
	area-event-invoke-timer area_event_timer
	This timer, set in seconds, is used to guard the area event invoke procedure.

area_evt_timer is an integer from 10 through 20. Default is 15.

Icsn Icsn_seconds

Sets the NAS location service notification timer defining how long the SGSN will wait (in seconds) before aborting the Location Service Request, and release all resources allocated for the transaction.

lcsn seconds is an integer from 10 through 20. Default is 15.

periodic-event-invoke-timer period_event_timer

Thi timer, set in seconds, is used to guard the period location invoke procedure.

period_evt_timer is an integer from 10 to 20. Default is 15.

ue-available-guard-timer ue_guard_timer

This timer, set in seconds, is used to guard the packet-switched deferred location request (UE available event) procedures.

ue guard timer is an integer from 10 to 600. Default is 600.

Usage Guidelines

Use this command to set the amount of time the SGSN waits to perform various location service procedures.

Example

The following command is used to set the time the SGSN will wait, for example 12 seconds, before aborting the Location Service Request:

timeout lcns 12

The following command is used to set the timeout for the UE available guard timer to 460 seconds:

```
timeout ue-available-guard-timer 460
```

timeout