

# LTE Emergency Profile Configuration Mode Commands

This mode configures parameters supporting the IP Multimedia Subsystem (IMS) emergency bearer services. Connectivity to an emergency Packet Data Network (PDN) is statically configured in this mode.

Exec > Global Configuration > LTE Policy Configuration > LTE Emergency Profile Configuration **Command Modes configure** > **lte-policy** > **lte-emergency-profile** *profile\_name* Entering the above command sequence results in the following prompt: [local]host name(lte-emergency-profile)# C) Important The commands or keywords/variables that are available are dependent on platform type, product version, and installed license(s). C) Important For information on common commands available in this configuration mode, refer to the Common Commands chapter. • ambr, on page 1 • apn, on page 2 • associate, on page 3 • lcs-qos, on page 4 • local-emergency-num, on page 5 • local-emergency-num-ie, on page 6 • pgw fqdn, on page 7 • pgw ip-address, on page 8 • qos, on page 9 • ue-validation-level, on page 10

# ambr

Configures the aggregated maximum bitrate (AMBR) for uplink and downlink for this emergency profile.

Privilege       Administrator         Command Modes       Exec > Global Configuration > LTE Policy Configuration > LTE Emergency Profile Configuration configure > Ite-policy > Ite-emergency-profile profile_name         Entering the above command sequence results in the following prompt:       [local]host_name(lte=emergency-profile) #         Syntax Description       ambr_max=ul_bitrate_max=dl_bitrate_no_more         No       Removes the AMBR configuration for this emergency profile.         max=ul bitrate       Configures the maximum aggregated uplink bitrate value. bitrate is an integer from 0 to 1410065408.         usage Guidelines       Use this command to configure uplink and downlink maximum aggregated bitrate values to be shared across all non-guaranteed bitrate barrers established for the emergency ession.         Example       The following command configures the uplink AMBR value to 2000 bps and the downlink AMBR value to 2000 bps:         ambr_max=ul_2000 max=dl_2000       ambr_max=ul_2000 max=dl_2000         Administrator       Configures the name and PDN type of the access point name (APN) used for emergency PDN connections.         Product       MME         Privilege       Administrator         Command Modes       Exec > Global Configuration > LTE Policy Configuration > LTE Emergency Profile Configuration configure > Ite-emergency-profile profile_name         Privilege       Administrator         Command Modes       Exec > Global Configuration > LTE Policy Configuration > LTE Em	Product	_ MME
Command Modes       Exec > Global Configuration > LTE Policy Configuration > LTE Emergency Profile Configuration configure > Ite-emergency-profile profile_name         Entering the above command sequence results in the following prompt: [local]host_name(lee-emergency-profile)#         Syntax Description       ambr max-ul bitrate max-dl bitrate no ambr no ambr no ambr no ambr no ambr configures the maximum aggregated uplink bitrate value. bitrate is an integer from 0 to 1410065408.         Wax-U bitrate       Configures the maximum aggregated downlink bitrate value. bitrate is an integer from 0 to 1410065408.         Usage Guidelines       Use this command to configure uplink and downlink maximum aggregated bitrate values to be shared across all non-guaranteed bitrate bearers established for the emergency session.         Example       The following command configures the uplink AMBR value to 2000 bps and the downlink AMBR value to 2000 bps: ambr max-ul 2000 max-dl 2000         app1       Configures the name and PDN type of the access point name (APN) used for emergency PDN connections.         Product       MME         Privilege       Administrator         Command Modes       Exec > Global Configuration > LTE Policy Configuration > LTE Emergency Profile Configuration configure > lte-emergency-profile profile_name         Entering the above command sequence results in the following prompt: [local]host_name(lite-emergency-profile)#	Privilege	Administrator
configure > lte-policy > lte-mergency-profile profile_name Entering the above command sequence results in the following prompt: [Iocal]host_name(lte-mergency-profile) # Syntax Description ambr max-ul_bfffate max-dl_bfffate Removes the AMBR configuration for this emergency profile. max-ul biffate Configures the maximum aggregated uplink biffate value. biffate is an integer from 0 to 1410065408. Usage Guidelines Use this command to configure uplink and downlink biffate value. biffate is an integer from 0 to 1410065408. Use this command to configure uplink and downlink maximum aggregated biffate values to be shared across all non-guaranteed biffate bearers established for the emergency session. Example The following command configure uplink AMBR value to 2000 bps and the downlink AMBR value to 2000 bps: ambr max-ul 2000 max-dl 2000 Froduct MME Product MME Exce > Global Configuration > LTE Policy Configuration > LTE Emergency Profile Configuration configure > lte-golicy > lte-emergency-profile profile_name Entering the above command sequence results in the following prompt: Liocal]host_name(Lte-emergency-profile) #	Command Modes	Exec > Global Configuration > LTE Policy Configuration > LTE Emergency Profile Configuration
Entering the above command sequence results in the following prompt: [local]host_name(lte-emergency-profile) #  Syntax Description ambx max=ul bitrate max=dl bitrate no ambx no Removes the AMBR configuration for this emergency profile. max-ul bitrate Configures the maximum aggregated uplink bitrate value. bitrate is an integer from 0 to 1410065408. max-dl bitrate Configures the maximum aggregated downlink bitrate value. bitrate is an integer from 0 to 1410065408. Usage Guidelines Usage Guidelines Example The following command configures the uplink AMBR value to 2000 bps and the downlink AMBR value to 2000 bps: ambx max=ul 2000 max=dl 2000  Configures the name and PDN type of the access point name (APN) used for emergency PDN connections. Product MME Privilege Administrator Command Modes Exec > Global Configuration > LTE Policy Configuration > LTE Emergency Profile Configuration Configure > Ite-policy > Ite-emergency-profile profile_name Entering the above command sequence results in the following prompt: [local]host_name(lte=emergency-profile) #		<pre>configure &gt; lte-policy &gt; lte-emergency-profile profile_name</pre>
Syntax Description          ambx max-ul bftrate max-dl bftrate         no         Removes the AMBR configuration for this emergency profile.         max-ul bftrate         Configures the maximum aggregated uplink bitrate value. bitrate is an integer from 0 to 1410065408.         max-dl bitrate         Configures the maximum aggregated downlink bitrate value. bitrate is an integer from 0 to 1410065408.         Usage Guidelines       Use this command to configure uplink and downlink maximum aggregated bitrate values to be shared across all non-guaranteed bitrate bearers established for the emergency session.         Example       The following command configures the uplink AMBR value to 2000 bps and the downlink AMBR value to 2000 bps:         ambr max-ul 2000 max-dl 2000       Configures the name and PDN type of the access point name (APN) used for emergency PDN connections.         Product       MME         Privilege       Administrator         Command Modes       Exec > Global Configuration > LTE Policy Configuration > LTE Emergency Profile Configuration configure > Ite-policy > Ite-emergency-profile_name         Entering the above command sequence results in the following prompt:       [local] host_name(lte-emergency-profile) #		Entering the above command sequence results in the following prompt:
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max-ul bitrate         Configures the maximum aggregated uplink bitrate value. bitrate is an integer from 0 to 1410065408.         max-dl bitrate         Configures the maximum aggregated downlink bitrate value. bitrate is an integer from 0 to 1410065408.         Usage Guidelines       Use this command to configure uplink and downlink maximum aggregated bitrate values to be shared across all non-guaranteed bitrate bearers established for the emergency session.         Example       The following command configures the uplink AMBR value to 2000 bps and the downlink AMBR value to 2000 bps:         ambr max-ul 2000 max-dl 2000       Configures the name and PDN type of the access point name (APN) used for emergency PDN connections.         Produet       MME         Privilege       Administrator         Command Modes       Exec > Global Configuration > LTE Policy Configuration > LTE Emergency Profile Configuration configure > Ite-policy > Ite-emergency-profile profile_name         Entering the above command sequence results in the following prompt:       [local]host_name(lte-emergency-profile) #		Removes the AMBR configuration for this emergency profile.
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Usage Guidelines       Use this command to configure uplink and downlink maximum aggregated bitrate values to be shared across all non-guaranteed bitrate bearers established for the emergency session.         Example       The following command configures the uplink AMBR value to 2000 bps and the downlink AMBR value to 2000 bps:         ambr max-ul 2000 max-dl 2000       Configures the name and PDN type of the access point name (APN) used for emergency PDN connections.         Product       MME         Privilege       Administrator         Command Modes       Exec > Global Configuration > LTE Policy Configuration > LTE Emergency Profile Configuration configure > lte-policy > lte-emergency-profile profile_name         Entering the above command sequence results in the following prompt:       [local]host_name(lte-emergency-profile) #		Configures the maximum aggregated downlink bitrate value. <i>bitrate</i> is an integer from 0 to 1410065408.
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ambr max-ul 2000 max-dl 2000         appn         Configures the name and PDN type of the access point name (APN) used for emergency PDN connections.         Product       MME         Privilege       Administrator         Command Modes       Exec > Global Configuration > LTE Policy Configuration > LTE Emergency Profile Configuration configure > Ite-policy > Ite-emergency-profile profile_name         Entering the above command sequence results in the following prompt:       [local]host_name(lte-emergency-profile)#		The following command configures the uplink AMBR value to 2000 bps and the downlink AMBR value to 2000 bps:
<b>ADD</b> Configures the name and PDN type of the access point name (APN) used for emergency PDN connections.         Product       MME         Privilege       Administrator         Command Modes       Exec > Global Configuration > LTE Policy Configuration > LTE Emergency Profile Configuration configure > Ite-policy > Ite-emergency-profile profile_name         Entering the above command sequence results in the following prompt:       [local]host_name(lte-emergency-profile) #		ambr max-ul 2000 max-dl 2000
Configures the name and PDN type of the access point name (APN) used for emergency PDN connections.ProductMMEPrivilegeAdministratorCommand ModesExec > Global Configuration > LTE Policy Configuration > LTE Emergency Profile Configuration configure > lte-policy > lte-emergency-profile profile_name Entering the above command sequence results in the following prompt: [local]host_name(lte-emergency-profile)#	apn	
Product       MME         Privilege       Administrator         Command Modes       Exec > Global Configuration > LTE Policy Configuration > LTE Emergency Profile Configuration configure > Ite-policy > Ite-emergency-profile profile_name         Entering the above command sequence results in the following prompt:       [local]host_name(lte-emergency-profile)#	-	Configures the name and PDN type of the access point name (APN) used for emergency PDN connections.
Privilege       Administrator         Command Modes       Exec > Global Configuration > LTE Policy Configuration > LTE Emergency Profile Configuration         configure > Ite-policy > Ite-emergency-profile profile_name         Entering the above command sequence results in the following prompt:         [local]host_name(lte-emergency-profile)#	Product	- MME
Command Modes       Exec > Global Configuration > LTE Policy Configuration > LTE Emergency Profile Configuration         configure > Ite-policy > Ite-emergency-profile profile_name         Entering the above command sequence results in the following prompt:         [local]host_name(lte-emergency-profile) #	Privilege	Administrator
<pre>configure &gt; lte-policy &gt; lte-emergency-profile profile_name Entering the above command sequence results in the following prompt: [local]host_name(lte-emergency-profile)#</pre>	Command Modes	Exec > Global Configuration > LTE Policy Configuration > LTE Emergency Profile Configuration
Entering the above command sequence results in the following prompt: [local]host_name(lte-emergency-profile)#		<pre>configure &gt; lte-policy &gt; lte-emergency-profile profile_name</pre>
<pre>[local]host_name(lte-emergency-profile)#</pre>		Entering the above command sequence results in the following prompt:
		<pre>[local]host_name(lte-emergency-profile)#</pre>

# Syntax Description apn apn\_name pdn-type { ipv4 | ipv4v6 | ipv6 } [ restoration-priority priority\_value ] no apn no Removes the selected APN from the profile. apn\_name apn\_name apn\_name apn\_name specifies the APN name of the emergency bearer services which will be used for emergency sessions. apn\_name must be an alphanumeric string of 1 to 64 characters. pdn-type { ipv4 | ipv4v6 | ipv6 }

Configures the packet data network type supported by the APN and this profile.

ipv4: Specifies that the PDN supports IPv4 network traffic.

ipv4v6: Specifies that the PDN supports both IPv4 and IPv6 network traffic.

ipv6: Specifies that the PDN supports IPv6 network traffic.

conf

### restoration-priority *priority\_value*

Configures the APN restoration priority value for emergency sessions for this APN profile. The reactivation of emergency PDNs after a P-GW restart notification is processed in the order of this priority.

*priority\_value* is an integer from 1 to 16 where "1" is the highest priority and "16" is the lowest priority. Default: 16 (lowest priority).

To define the APN restoration priority for non-emergency sessions, refer to the **apn-restoration** command in the APN Profile Configuration Mode.

**Usage Guidelines** Use this command to select the APN to be used for emergency bearer services. APNs are configured through the APN Configuration mode. For more information, see the *APN Configuration Mode Commands* chapter.

### Example

The following command specifies that the APN named *apn-3.com* is to be used for emergency bearer services and that the PDN supports IPv4 traffic only:

### apn apn-3.com pdn-type ipv4

The following command configures the APN Restoration Priority for APN profile named *eap* with restoration priority value *1*:

apn eap pdn-type ipv4 restoration-priority 1

## associate

Associates a location service with this LTE emergency profile.

Product	- MME
Privilege	- Administrator
Command Modes	Exec > Global Configuration > LTE Policy Configuration > LTE Emergency Profile Configuration
	<pre>configure &gt; lte-policy &gt; lte-emergency-profile profile_name</pre>
	Entering the above command sequence results in the following prompt:
	<pre>[local]host_name(lte-emergency-profile)#</pre>
Syntax Description	associate location-service location_svc_name no associate location-service
	no
	Disassociates a previously associated location service with this LTE emergency profile.
	location-service <i>location_svc_name</i>
	Associates a location service with this LTE emergency profile. Only one location service can be associated with an LTE emergency profile.
	<i>location_svc_name</i> specifies the name for a pre-configured location service to associate with the LTE emergency profile as an alphanumeric string of 1 through 63 characters.
Usage Guidelines	Use this command to associate a pre-configured location service with an LTE emergency profile. This enables the associated location service to provide location information of emergency calls to the GMLC.
	For more information about Location Services (LCS), refer to the <b>location-service</b> command in the <i>Context Configuration Mode Commands I-M</i> chapter as well as the <i>Location Services Configuration Mode Commands</i> chapter.
	Further details can be found in the Location Services chapter of the MME Administration Guide.

# lcs-qos

Configures the required Location service (LCS) Quality of Service (QoS) settings for this emergency profile.

Product	MME
Privilege	Administrator
Command Modes	Exec > Global Configuration > LTE Policy Configuration > LTE Emergency Profile Configuration
	<pre>configure &gt; lte-policy &gt; lte-emergency-profile profile_name</pre>
	Entering the above command sequence results in the following prompt:
	<pre>[local]host_name(lte-emergency-profile)#</pre>
Syntax Description	<pre>lcs-qos horizontal-accuracy variable [ vertical-accuracy variable ] no lcs-qos</pre>

no

	Removes the configured LCS QoS settings for this emergency profile.
	horizontal-accuracy variable
	Defines the horizontal (longitude and latitude) accuracy of the LCS request.
	variable must be entered as an integer from 0 to 127, where 0 is the most accurate.
	vertical-accuracy variable
	Defines the vertical (altitude) accuracy of the LCS request.
	variable must be entered as an integer from 0 to 127, where 0 is the most accurate.
Usage Guidelines	Use this command to define the location service QoS settings to be used for this emergency profile. Configuration of these settings is optional.
	For Emergency Services, the MME will always set the Response Time to Low Delay. If QoS is configured, the horizontal accuracy is mandatory. If a vertical accuracy is specified in this command, the MME will set the Vertical Requested flag.
	Refer to 3GPP TS 29.171 and 3GPP TS 23.032 for more details about these settings.
	Example

The following command sets the LCS QoS horizontal accuracy to **20**, which represents an accuracy of 57.3 meters. No vertical accuracy is specified.

lcs-qos horizontal-accuracy 20

# local-emergency-num

 This command configures Local Emergency Numbers to be sent in Attach/TAU responses.

 Product
 MME

 Privilege
 Security Administrator, Administrator

 Command Modes
 Exec > Global Configuration > LTE Policy Configuration > LTE Emergency Profile Configuration configure > Ite-policy > Ite-emergency-profile profile\_name

 Entering the above command sequence results in the following prompt:
 [local] host\_name(lte-emergency-profile) #

 Syntax Description
 [ no ] local-emergency-num emergency\_number { ambulance | custom custom\_number | fire | marinegaurd | mountain-rescue | police }

 No

Removes the specified Local Emergency Number from the list.

### emergency\_number

The emergency number is a number assigned to a type of emergency number (ambulance, marine, and so on) with a string of size 1 to 10.

### custom\_number

Is specific to the **custom** local emergency number. *custom\_number* is an hexadecimal number from 0x1 to 0xFF.

Usage Guidelines This command allows the subscriber to download a list of local emergency numbers used by the serving network. This list is downloaded by the network to the User Equipment (UE) at successful registration as well as subsequent registration updates.

### Example

The following configuration allows the operator to assign an emergency number for ambulance:

local-emergency-num 123 ambulance

The following configuration allows the operator to remove the emergency number assigned for ambulance:

no local-emergency-num 123 ambulance

# local-emergency-num-ie

This command is used to configure local emergency numbers to be sent only over TAU messages.

Product	MME
Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > LTE Policy Configuration > LTE Emergency Profile Configuration
	<pre>configure &gt; lte-policy &gt; lte-emergency-profile profile_name</pre>
	Entering the above command sequence results in the following prompt:
	<pre>[local]host_name(lte-emergency-profile)#</pre>
Syntax Description	local-emergency-num-ie { inter-mme-tau   tau } no local-emergency-num-ie
	inter-mme-tau

The **local-emergency-num-ie** keyword with **inter-mme-tau** option allows the configured local emergency number list to be sent in a TAU Accept during Inter-MME-TAUs, that is, when the UE switches from a 2G network to 4G network, from a 3G network to 4G network or from a 4G network to 4G network handover (for both idle and connected mode).

### tau

The **local-emergency-num-ie** keyword with **tau** option allows the configured local emergency number list to be sent in a TAU Accept message during all TAUs (for example, periodic TAUs and so on).

**Usage Guidelines** This command configuration of the local emergency numbers is to be sent only over TAU messages.

### Example

The following configuration allows the operator to send the emergency number list over Inter-MME-TAU messages:

### local-emergency-num-ie inter-mme-tau

The following configuration allows the operator to send the emergency number list over all TAU messages:

local-emergency-num-ie tau

The following command removes the configuration of local emergency numbers sent over TAU messages:

```
no local-emergency-num-ie
```

# pgw fqdn

This command configures a fully qualified domain name (FQDN) for P-GW to support emergency bearer services.

Product	MME
Privilege	Administrator
Command Modes	Exec > Global Configuration > LTE Policy Configuration > LTE Emergency Profile Configuration
	<pre>configure &gt; lte-policy &gt; lte-emergency-profile profile_name</pre>
	Entering the above command sequence results in the following prompt:
	<pre>[local]host_name(lte-emergency-profile) #</pre>
Syntax Description	pgw fqdn fqdn no pgw fqdn
	no
	Removes the specified P-GW FQDN from this profile.
	fqdn

Specifies the domain name of the P-GW as an alphanumeric string of 1 through 256 characters.

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<b>(</b>	
Important	A maximum of one P-GW FQDN configuration is allowed per profile.
Usage Guidelines	Use this command to configure the FQDN for P-GW to support emergency bearer services.
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### Example

The following command configures the P-GW supporting emergency bearer services for this profile as *pdn-911.gov*:

pgw fqdn pdn-911.gov

# pgw ip-address

This command configures the IPv4 or IPv6 address of the P-GW to support emergency bearer services.

Product	MME
Privilege	Administrator
Command Modes	Exec > Global Configuration > LTE Policy Configuration > LTE Emergency Profile Configuration
	<pre>configure &gt; lte-policy &gt; lte-emergency-profile profile_name</pre>
	Entering the above command sequence results in the following prompt:
	<pre>[local]host_name(lte-emergency-profile)#</pre>
Syntax Description	<pre>pgw ip-address address protocol { both   gtp   pmip } weight value collocated-nodecollocated_node_name ue-usage-type ue_usage_type_value no pgw ip-address address</pre>
	по
	Removes the specified P-GW IP address from this profile.
	ip-address <i>address</i>
	Specifies the IP address for the P-GW in IPv4 dotted-decimal or IPv6 colon-separated hexadecimal notation.
<b>(</b>	
Important	A maximum of four P-GW IP address configurations are allowed per profile.
	protocol { both   gtp   pmip }
	Specifies the protocol that P-GW supports. Options are:
	• both: Specifies that both GTP and PMIP are supported.
	• gtp: Specifies that only GTP is supported.

	• <b>pmip</b> : Specifies that only PMIP is supported.
	weight <i>value</i>
	Assigns a weight to the P-GW IP address to use as a preferred P-GW.
	value is an integer from 1 to 100. Lowest value has the least preference.
	collocated-node
	Configures the collocation name to select the collocated S/PGW node IP addresses for MME.
	collocated_node_name must be a string of size 1 to 255.
	ue-usage-type
	Configures the ue-usage-type for the gateway. <i>ue_usage_type_value</i> must be an integer between 1 through 255.
Usage Guidelines	Use this command to configure the IPv4 or IPv6 address for P-GW to support emergency bearer services through this profile.
	Example
	The following command configures the P-GW with an IPv4 address of <i>10.2.3.4</i> , supporting GTP only, and having a weight of <i>10</i> :

pgw ip-address 10.2.3.4 protocol gtp weight 10

# qos

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	Configures the quality of service (QoS) parameters for the emergency bearer service.
Product	- MME
Privilege	Administrator
Command Modes	Exec > Global Configuration > LTE Policy Configuration > LTE Emergency Profile Configuration
	<pre>configure &gt; lte-policy &gt; lte-emergency-profile profile_name</pre>
	Entering the above command sequence results in the following prompt:
	<pre>[local]host_name(lte-emergency-profile)#</pre>
Syntax Description	<pre>qos qci qci arp arp_value preemption-capability { may   shall-not } vulnerability { not-preemptable   preemtable } no qos</pre>
	qci <i>qci</i>
	Specifies the QoS Class Identifier (QCI) for the emergency bearer profile as an integer from 0 through 255.

LTE Emergency Profile Configuration Mode Commands

	arp <i>arp_value</i>
	Defines the address retention priority value as an integer from 1 through 15.
	preemption-capability { may   shall-not }
	Specifies the preemption capability flag. Options are:
	• may: Bearer may be preempted.
	• shall-not: Bearer shall not be preempted.
	vulnerability { not-preemptable   preemptable }
	Specifies the vulnerability flag. Options are:
	• not-preemptable: Bearer cannot be preempted.
	• preemptable: Bearer can be preempted.
Usage Guidelines	Use this command to set the QoS ARP and QCI parameters for the emergency bearer configuration.

### Example

The following command sets the QCI number to 7, the ARP value to 2 the preemption capability to *may*, and the vulnerability flag to *preemptable*:

qos qci 7 arp 2 preemption-capability may vulnerability preemptable

# ue-validation-level

	Configures the type of user equipment (UE) that can use the emergency bearer service through the profile.
Product	- MME
Privilege	Administrator
Command Modes	Exec > Global Configuration > LTE Policy Configuration > LTE Emergency Profile Configuration
	<pre>configure &gt; lte-policy &gt; lte-emergency-profile profile_name</pre>
	Entering the above command sequence results in the following prompt:
	<pre>[local]host_name(lte-emergency-profile)#</pre>
Syntax Description	ue-validation-level { auth-only   full   imsi   none } default ue-validation-level
	default
	Returns the command to its default setting.
	Default: none

### { auth-only | full | imsi | none }

Specifies the type of UE allowed to use the emergency bearer service. Options are:

- **auth-only**: Specifies that UEs that have been authenticated are allowed to use the emergency bearer service. These UEs may be in a limited service state, they may be in an area with restricted service or where they are restricted from services. Enabling this option also causes subscription and location validation to be bypassed.
- **full**: Specifies that only UEs that have been authenticated and have successfully passed subscription and location validation are allowed to use the emergency bearer service. Enabling this option indicates that only UEs that are capable of normal attach procedures will be allowed to use the emergency bearer service.
- **imsi**: Specifies that UEs with an International Mobile Subscriber Identity (IMSI) are allowed to use the emergency bearer service regardless of authentication. Even if authentication fails, the UE is granted access.
- none: Specifies that all UEs are allowed to use the service. This is the default value for the command.

**Usage Guidelines** Use this command to indicate which UEs can use the emergency bearer service through this profile.

### Example

The following command configures the **imsi** type of UE to use the emergency bearer service to "IMSI required, authentication optional":

ue-validation-level imsi