

MME LAC Pool Area Configuration Mode Commands

The MME LAC Pool Area Configuration Mode is used to create and manage the Location Area Code (LAC) pool areas.

Command Modes

Exec > Global Configuration > Context Configuration > SGs Service Configuration > MME LAC Pool Area Configuration

configure > context *context_name* **> sgs-service** *service_name* **> pool-area** *pool_area_name*

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(config-sgs-pool-area)#
```

Important The commands or keywords/variables that are available are dependent on platform type, product version, and installed license(s).

Important For information on common commands available in this configuration mode, refer to the Common Commands chapter.

- hash-value, on page 1
- lac, on page 3
- plmnid, on page 3

hash-value

Configures the Visitor Location Register (VLR) hash value mapping for this pool area.

Product MME

Privilege Administrator

Command Modes

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configure > context *context_name* **> sgs-service** *service_name* **> pool-area** *pool_area_name*

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(config-sgs-pool-area)#
```

Syntax Description

hash-value { *value* | non-configured-values | range *value* to *value* } use-vlr *vlr_name*
no hash-value { *value* | non-configured-values | range *value* to *value* }

no

Removes the configured hash-value from the pool-area configuration.

value

Specifies the VLR hash value to be used with the configured VLR. *value* must be an integer from 0 through 999.

non-configured-values

Specifies that the VLR configured in this command is to be used with non-configured hash values.

range *value* to *value*

Specifies a range of hash values to use with the configured VLR as an integer from 0 through 999.

use-vlr *vlr_name*

Specifies the VLR to be used with the hash value configuration when selected. The *vlr_name* must be an alphanumeric string of size 1 through 63 characters.

Usage Guidelines

Use this command to configure hash values to be used with VLRs.

In Release 12.2 and later, a maximum of 48 hash lists can be created per pool area. In older releases, a total of 32 hash lists can be created per pool area.

In a pool configuration, the MME selects the VLR that corresponds to the hash of the UE's IMSI. If that VLR is inactive, the MME will use the default VLR (as defined by the **non-configured-value** option). If no default VLR has been configured, or if the default VLR is inactive, the MME selects the next available VLR from the pool.

If the chosen VLR is active at the time of selection and then subsequently becomes inactive when the request is sent to it, the current request fails. On the next request from the UE, the VLR selection mechanism is applied again. A VLR that failed previously will only be selected again if it became active since the earlier failure.

Example

The following command configures all hash values within a range of *0* to *500* to use a VLR named *vlr1*:

```
hash-value range 0 to 500 use-vlr vlr1
```

The following command configures hash values of *501* to use a VLR named *vlr2*:

hash-value 501 use-vlr vlr2

The following command configures all non-configured hash values to use a VLR named *vlr3*:

hash-value non-configured-values use-vlr vlr3

lac

Configures a 3G location area code or area codes that define this pool area.

Product

MME

Privilege

Administrator

Command Modes

Exec > Global Configuration > Context Configuration > SGs Service Configuration > MME LAC Pool Area Configuration

configure > **context** *context_name* > **sgs-service** *service_name* > **pool-area** *pool_area_name*

Entering the above command sequence results in the following prompt:

`[context_name]host_name(config-sgs-pool-area)#`

Syntax Description

[no] lac *area_code* **+**

no

Removes a configured forbidden handover area code or area codes from this policy. If no location area code is specified, then all location area codes are removed.

area_code

Specifies an area code or area codes used to select a VLR for the pool area as an integer from 0 through 65535. Multiple area codes can be entered (up to 16 in a single line, separated by spaces).

Usage Guidelines

Use this command to configure 3G location-based area codes that define this pool area.

In Release 12.2 and later, a maximum of 96 areas can be added per pool area (in a single line, or separately). In older releases, a total of 16 area codes can be added (in a single line, or separately).

Example

The following command configures eight location-based area codes (1, 2, 3, 4, 5, 6, 7, 8) that define this pool area:

lac 1 2 3 4 5 6 7 8

plmnid

Configures the Public Land Mobile Network (PLMN) identifier for the LAC pool area.

Product

MME

Privilege

Administrator

Command Modes

Exec > Global Configuration > Context Configuration > SGs Service Configuration > MME LAC Pool Area Configuration

configure > **context** *context_name* > **sgs-service** *service_name* > **pool-area** *pool_area_name*

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(config-sgs-pool-area)#
```

Syntax Description

plmnid { any | mcc *mcc_value* **mnc** *mnc_value* **}**
no plmnid

no

Removes the configured PLMN identifier for the LAC pool area.

any

This keyword specifies any PLMN identifier can be configured for the LAC pool area.

mcc ***mcc_value***

Specifies the mobile country code (MCC) portion of the PLMN identifier as an integer from 100 through 999.

mnc ***mnc_value***

Specifies the mobile network code (MNC) portion of the PLMN identifier as a 2- or 3-digit integer from 00 through 999.

Usage Guidelines

Use this command to set the PLMN identifier for the LAC pool area. Any PLMN identifier can be configured for the LAC pool area or a specific PLMN identifier can be configured by providing the MCC and MNC of the PLMN identifier.

Example

The following command configures the PLMN identifier with MCC value as *102* and MNC value as *20* for this MME service:

```
plmnid mmc 102 mnc 20
```