



Sending EMM Information during Periodic TAU

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Feature Summary and Revision History

Summary Data

Applicable Product(s) or Functional Area	MME
Applicable Platform(s)	<ul style="list-style-type: none"> • ASR 5500 • VPC-DI • VPC-SI
Feature Default	Disabled - Configuration Required
Related Changes in This Release	Not Applicable
Related Documentation	<ul style="list-style-type: none"> • <i>Command Line Interface Reference</i> • <i>MME Administration Guide</i> • <i>Statistics and Counters Reference</i>

Revision History

Revision Details	Release
First introduced.	21.25

Feature Description

The MME sends EMM information to the UE during normal and handover TAU procedures. The MME can be configured to send EMM information in periodic TAU even in scenarios when the active flag is not set.

In releases prior to 21.25, MME sent the EMM information to UE during periodic TAU when an active flag was set. When the active flag was not set during periodic TAU, the NB-IoT UE did not receive the EMM information from MME.

Configuring EMM Information

This section describes the configuration to enable or disable EMM information for periodic TAU in the Call Control Profile Configuration and MME Service Configuration modes.

Configuring EMM Information in Call Control Profile

Use the following sample configuration to enable or disable EMM information in the Call Control profile for periodic TAU when active flag is not set:

```
configure
  call-control-profile profile_name
    [ remove ] tau { send-emm-info } [ access-type { all | nb-iot |
wb-eutran } ]
  end
```

Configuring EMM Information in MME Service

Use the following sample configuration to enable or disable EMM information in the MME service for periodic TAU when active flag is not set:

```
configure
  context context_name
    mme-service service_name
      [ default ] { policy } tau { send-emm-info } [ access-type { all
| nb-iot | wb-eutran } ]
    end
```



Note The `set-ue-time` option under `tau` in the `mme-service` configuration must be enabled for this feature.

NOTES:

- **tau**: Enables the tracking area update procedure.
- **send-emm-info**: Sends EMM information to UE in case of Periodic TAU with Active Flag not set.
- **access-type { all | nb-iot | wb-eutran }**: Enables access type extension.
 - **nb-iot**: Enables the configuration for NB-IoT access type.

- **wb-eutran**: Enables the configuration for WB-EUTRAN access type.
- **all**: Enables the configuration for NB-IoT and WB-EUTRAN access types.
- **remove**: Removes the configured values.
- **default**: Restores the configuration to default (disabled) state.

Monitoring and Troubleshooting

This section provides information on how to monitor and troubleshoot this feature using the show commands.

Show Commands and Outputs

This section provides information regarding show commands and/or their outputs in support of this feature.

show mme-service statistics

The output of this command displays the following fields:

- Send EMM in Periodic TAU without Bearer Activation:
 - NB-IOT—Displays the count for NB-IoT access type.
 - WB-EUTRAN—Displays the count for WB-EUTRAN access type.

show mme-service all

The output of this command displays the following fields:

- Send EMM Info for Periodic TAU—Indicates whether the EMM information for periodic TAU is enabled or disabled.
 - Access Type—Indicates the access type—WB-EUTRAN, NB-IOT, or WB-EUTRAN and NB-IOT.

show call-control profile full all

The output of this command displays the following fields:

- Send EMM Info for Periodic TAU—Indicates whether the EMM information for periodic TAU is enabled or disabled.
 - Access Type—Indicates the access type—WB-EUTRAN, NB-IOT, or WB-EUTRAN and NB-IOT.

