

IMEI Check during Periodic TAU Support for NB IoT Devices

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Feature Summary and Revision History

Summary Data

Applicable Product(s) or Functional Area	MME
Applicable Platform(s)	• ASR 5500 • VPC-DI • VPC-SI
Feature Default	Disabled - Configuration Required
Related Changes in This Release	Not applicable
Related Documentation	• *Command Line Interface Reference* • *MME Administration Guide*

Revision History

Revision Details	Release
IMEI Check during Periodic TAU Support for NB IoT Devices was first introduced in release 21.3.13. With this release, this feature is also applicable to release 21.5.16.	21.5.16
First introduced.	21.3.13

Feature Changes

With this release, if IMEI is available for UE, the MME sends ME-Identity-Check-Request (MICR) to EIR (Equipment Identity Register) whenever NB IoT device does a periodic TAU.

Previous Behavior: MME never sent the ME-Identity-Check-Req to EIR when NB IoT devices did periodic TAU.

New Behavior: When IMEI is available for an UE, MME sends MICR to EIR whenever NB IoT device does a Periodic TAU. If IMEI is not available, the MICR is not sent.

Depending on the Equipment-Status received from the EIR in ME-Identity-Check-Answer (MICA), the MME will take action based on the MME configuration.

Customer Impact: Enhanced security for NB IoT devices due to IMEI check in periodic TAU.

Command Changes

imei-query-type verify-equipment-identity

To enable this feature, use the existing CLI commands in one of the following configuration modes:

Call Control Profile

```
configure
  call-control-profile call_control_profile
    attach imei-query-type imei verify-equipment-identity
    end
```

Or

```
configure
  call-control-profile call_control_profile
    tau imei-query-type verify-equipment-identity
    end
```

MME Service

```
configure
  mme-service service_name
    policy attach imei-query-type verify-equipment-identity
    end
```

Or

```
configure
  mme-service service_name
    policy tau imei-query-type verify-equipment-identity
    end
```

Notes:

- **verify-equipment-identity** : Specifies that the identification (IMEI or IMEI-SV) of the UE is to be performed by the Equipment Identity Register (EIR) over the S13 interface.