



NB-IoT and Low Power Session Counters

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Feature Summary and Revision History

Summary Data

| | |
|--|--|
| Applicable Product(s) or Functional Area | C-SGN, MME |
| Applicable Platform(s) | <ul style="list-style-type: none"> • ASR 5500 • VPC-DI • VPC-SI |
| Feature Default | Enabled - Always-on |
| Related Changes in This Release | Not applicable |
| Related Documentation | <ul style="list-style-type: none"> • <i>MME Administration Guide</i> • <i>Statistics and Counters Reference</i> • <i>Ultra IoT C-SGN Administration Guide</i> |

Revision History

| Revision Details | Release |
|-------------------|---------|
| First introduced. | 21.6 |

Feature Description

On MME and C-SGN, new counters are added to count the number of low power subscribers when RAT type is E-UTRAN or NB-IoT. The counters will increment by 1 for each subscriber if eDRX or PSM or both are received in Attach or TAU Request.

The **show mme-service statistics** command and MME schema are enhanced to support the new counters and and new bulk statistics respectively.

Monitoring and Troubleshooting

This section provides information on the bulk statistics and show commands available to support NB-IoT and Low Power Session RAT type.

Show Commands and/or Outputs

This section provides information regarding show commands and/or their outputs.

show mme-service statistics

The following new fields are added to the output of this command to display the number of low power subscribers attached when RAT type is NBIOT and E-UTRAN.

- Low power Subscribers:
 - NB-IoT Attached Calls — The current total number of attached low power subscribers which are operating in NB-IoT.
 - EUTRAN Attached Calls — The current total number of attached low power subscribers which are operating in E-UTRAN.

Bulk Statistics

The following bulk statistics are added in the MME schema to display the number of low power subscribers attached when RAT type is NB-IOT and E-UTRAN.

| Bulk Statistics | Description |
|-------------------------------|--|
| attached-lp-nbiot-subscriber | The current total number of attached low power subscribers which are operating in NB-IoT. |
| attached-lp-eutran-subscriber | The current total number of attached low power subscribers which are operating in E-UTRAN. |