



Timeout Exclusion from CSFB Counters

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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	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>

Revision History

Revision Details	Release
First Introduced	21.23

Feature Description

Degradation occurs in the network statistics when there is specific Mobile Terminated (MT) Circuit Switch Fallback (CSFB) paging request timeout error occur. When the UE (User Equipment) is in idle mode, the MME to eNB CSFB based paging requests are ignored by the eNB. This results in MME recording the specific MT CSFB paging request timeout error and thus paging re-transmission timeout error gets incremented in the relevant MT CSFB failure bulkstat counters.

To ignore the paging re-transmission timeout error being incremented in the relevant MT CSFB failure bulkstat counters, the following new configuration commands are implemented under mme-service:

1. `count csfb-mt-voice-paging timeouts`
2. `count csfb-mt-sms-paging timeouts`

These new commands instruct the MME to ignore the recording of this specific MT CSFB paging request timeout error in the bulkstat counters “csfb-nw-voice-failures” and “csfb-nw-sms-failures” respectively.

Enabling and Disabling Voice and SMS for Paging Re-transmission Timeout

Use the following configuration commands to enable and disable voice and SMS for paging re-transmission timeout:

```
config
  context context_name
    mme-service service_name
      [ no ]count csfb-mt-voice-paging timeouts
      [ no ]count csfb-mt-sms-paging timeouts
    end
```

NOTES:

- **count csfb-mt-voice-paging timeouts:** Configures specific MT CSFB Voice paging request timeout error.
- **count csfb-mt-sms-paging timeouts:** Configures specific MT CSFB SMS paging request timeout error.

Show Command and Output

`show mme-service all|name`

The output of this command displays the two new parameters under mme-service and there status are as follows:

- `csfb-nw-voice-pagingt imeouts:` Enabled/Disabled
- `csfb-nw-sms-paging timeouts:` Enabled/Disabled

The current bulkstat counters “csfb-nw-voice-failures” and “csfb-nw-sms-failures” can be verified either through the bulkstats feature or the “show mme-service statistics” command as normal.

