

HeNBGW Thresholds

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HeNB-GW Service Thresholds

HeNB-GW Service thresholds generate alerts or alarms for the average number of calls setup. A threshold can be configured to report this information on entire system for HeNB-GW service. Thresholds can also be configured for session registration response failures, discarded interface registration requests, discarded network entry registration acknowledgments for HeNB-GW services.

Threshold counter limits are configured for HeNB-GW HeNB SCTP association, HeNB-GW UE sessions, and HeNB-GW Paging messages with poll interval value.

On reaching the threshold limits in the configured interval, if threshold monitoring is enabled for the HeNB-GW service(s), threshold notifications get generated as SNMP traps. If threshold monitoring is disabled for the HeNB-GW service(s), even on reaching the threshold limits, no notification gets generated.

Alerts or alarms are triggered for these HeNB-GW thresholds based on the following rules:

- **Enter condition:** When the actual average of call setups or actual number of failures or discards passes, or is equal to, the configured Threshold value an alert or alarm is set.
- **Clear condition:** When the actual average of call setups or actual number of failures or discards passes below the Threshold value the alert or alarm is cleared.

If a trigger condition occurs within the polling interval, the alert or alarm is not generated until the end of the polling interval.

Saving Your Configuration

When you configure thresholds they are not permanent unless you save the changes. When you have completed configuring thresholds, save your configuration to flash memory, an external memory device, and/or a network location using the Exec mode command **save configuration**. For additional information on how to verify and save configuration files, refer to the *System Administration Guide* and the *Command Line Interface Reference*.

System-Level HeNB-GW Service Thresholds

The system-level thresholds for HeNB-GW Service-Level can be configured to monitor thresholds for HeNB-GW Paging messages.

Following thresholds can be configured for the HeNB-GW service-level:

- Number of HeNB-GW Paging Messages
- Total number of subscribers threshold for HeNB-GW HeNB sessions
- Total number of subscribers threshold for HeNB-GW UE sessions

Configuring System-level HeNB-GW Service Thresholds

Use the following example to configure and enable these thresholds:

```
configuration
 threshold henbgw-paging-messages  <high_thresh> [ clear <low_thresh>]
 threshold total-henbgw-henb-sessions  <high_thresh> [ clear <low_thresh>]
 threshold total-henbgw-ue-sessions  <high_thresh> [ clear <low_thresh>]
 threshold poll henbgw-paging-messages interval <dur>
 threshold poll total-henbgw-henb-sessions interval <dur>
 threshold poll total-henbgw-ue-sessions interval <dur>
 threshold monitoring henbgw-service
 end
```