

Bulk Statistics Changes Quick Reference

This chapter identifies bulk statistics changes added to, modified for, or deprecated from the StarOS 21.19 software release.

Important For more information regarding bulk statistics identified in this section, see the latest version of the *BulkstatStatistics_document.xls* spreadsheet supplied with the release.

Bulk statistics changes for 21.19 include:

- New Bulk Statistics, on page 1
- Modified Bulk Statistics, on page 3
- Deprecated Bulk Statistics, on page 4

New Bulk Statistics

This section identifies new bulk statistics and new bulk statistic schemas introduced in release 21.19.

MME Schema

The following bulk statistics are added in the MME schema in support of the Monitoring Events feature.

Counters	Description
monitored-subscribers	The current total number of monitored subscribers for monitoring events.
monitored-loss-of-connectivity	The current total number of loss of connectivity events configured.
monitored-ue-reachability	The current total number of UE reachability events configured.
monitored-location-reporting	The current total number of location reporting events configured.
monitored-communication-failure	The current total number of communication failure events configured.
monitored-availability-after-ddn-failure	The current total number of availability after DDN failure events configured.

Counters	Description
monitored-availability-after-ddn-failure-idleind	The current total number of availability after DDN failure and idle status indication events configured.
monitored-ue-reachability-idleind	The current total number of UE reachability and idle status indication events configured.
monitored-pdn-connecitivty-status	The current total number of PDN connectivity status events configured.
monte-rx-loss-of-connectivity	The total number of loss of connectivity monitoring events configured.
monte-rx-ue-reachability	The total number of UE reachability monitoring events configured.
monte-rx-location-reporting	The total number of location reporting monitoring events configured.
monte-rx-communication-failure	The total number of communication failure monitoring events configured.
monte-rx-availability-after-ddnfailure	The total number of availability after DDN failure monitoring events configured.
monte-rx-number-of-ue-geoarea	The total number of UEs present in a geographical area monitoring events configured.
monte-rx-uereachability-idleind	The total number of UE reachability and idle status indication monitoring events configured.
monte-rx-availability-ddnfailure-idleind	The total number of availability after DDN failure and idle status indication monitoring events configured.
monte-rx-pdn-connectivity-status	The total number of PDN connectivity status monitoring events configured.
monte-tx-loss-of-connectivity	The total number of loss of connectivity monitoring reports sent.
monte-tx-ue-reachability	The total number of UE Reachability monitoring reports sent.
monte-tx-location-reporting	The total number of location reporting monitoring reports sent.
monte-tx-communication-failure	The total number of communication failure monitoring reports sent.
monte-tx-availability-after-ddnfailure	The total number of availability after DDN failure monitoring reports sent.
monte-tx-number-of-ue-geoarea	The total number of number of UEs present in a geographical area monitoring reports sent.
monte-tx-uereachability-idleind	The total number of UE reachability and idle status indication monitoring reports sent.
monte-tx-availability-ddnfailure-idleind	The total number of availability after DDN failure and idle status indication monitoring reports sent.
monte-tx-pdn-connectivity-status	The total number of PDN connectivity status monitoring reports sent.

Counters	Description
monte-del-ue-reachability	The total number of deleted UE Reachability monitoring events.
monte-del-location-reporting	The total number of deleted location reporting monitoring events.
monte-del-communication-failure	The total number of deleted communication failure monitoring events.
monte-del-availability-after-ddn-failure	The total number of deleted availability after DDN failure monitoring events.
monte-del-uereachability-idleind	The total number of deleted UE reachability and idle status indication monitoring events.
monte-del-availability-ddnfailure-idleind	The total number of deleted availability after DDN failure and idle status indication monitoring events.
monte-del-pdn-connectivity-status	The total number of deleted PDN connectivity status monitoring events.
monte-del-loss-of-connectivity	The total number of deleted loss of connectivity monitoring events.

Modified Bulk Statistics

This section identifies the modified bulk statistics schemas modified in release 21.19.

The following bulk statistics are modified in the MME schema under the **show bulkstats variables** command.

- **apn-expansion**–The identification number of the context configured on the system that is currently facilitating the APN-QCI service. This is an internal reference number.
- **cs-network-ranap**–Indicates the name of the Packet Switch (PS) Network connected with specific HNB-GW on which statistics are collected or displayed.
- **cs-network-rtp**–Indicates the name of the Packet Switch (PS) Network connected with specific HNB-GW on which statistics are collected or displayed.
- **cs-network-sccp**–Indicates the name of the Packet Switch (PS) Network connected with specific HNB-GW on which statistics are collected or displayed.
- **fa**–The name of the VPN associated with the interface.
- **gprs-bk**–The name of the VPN associated with the interface.
- **gtpc** –The name of the context configured on the system that is currently facilitating the EGTPC service.
- **ha**–The identification number of the context configured on the system that is currently facilitating the MIPHA service. This is an internal reference number.
- **iups-bk**–The identification number of the context configured on the system that is currently facilitating the IUPS service. This is an internal reference number.
- **link-aggr** –Alphanumeric string indicating LAG.
- **map-bk**–Indicates the name of the Packet Switch (PS) Network connected with specific HNB-GW on which statistics are collected or displayed.

- **ps-network-gtpu**–Indicates the name of the Packet Switch (PS) Network connected with specific HNB-GW on which statistics are collected or displayed.
- **ps-network-ranap**–Indicates the name of the Packet Switch (PS) Network connected with specific HNB-GW on which statistics are collected or displayed.
- **ps-network-sccp**–Indicates the name of the Packet Switch (PS) Network connected with specific HNB-GW on which statistics are collected or displayed.
- **rulebase**–The name of the billing plan associated with the subscriber.
- **tai**–Configured MME of a TAI.

Deprecated Bulk Statistics

None in this release.