



# Bulk Statistics Changes Quick Reference

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## New Bulk Statistics

### MME Schema

The following bulk statistics are added in the MME schema.

Bulk Statistics Variable	Description
esm-msgtx-brrmod-rej-eps-qos-not-accepted	The total number of times Bearer Modification Reject has occurred with an ESM Cause of 'EPS QoS Not Accepted'.
dcnr-nsa-ipra-count	Shows the total number of IPRA counts.
dcnr-nsa-opra-count	Shows the total number of OPRA count.
esm-msgtx-attach-rej-network-failure-abort-except-subscription-withdrawn	Shows the total number of Attach Reject messages that are sent for an Attach Request, with a cause code Network Failure, when the rejection is due to HSS abort except subscription withdrawn.

### NAT Realm Schema

The NAT Realm schema provides operational statistics that can be used for monitoring and troubleshooting the NAT Port chunk hold timer feature.

Bulk Statistics Variable	Description
nat-rlm-port-chunks-on-hold	The total number of port chunks on hold, which are collected per context and for each realm

### SaMOG Schema

The following bulk statistics are added in the SaMOG schema as part of the Separate Counters for All EAP Type for Success and Failure Events feature

Bulk Statistics Variables	Description
mrme-eap-rxmobile-eap-tls	Total number of EAP TLS received.
mrme-eap-rxmobile-eap-ttls	Total number of EAP TTLS received.
mrme-eap-rxmobile-eap-peap	Total number of EAP PEAP received.
mrme-eap-rxmobile-eap-aka-total-rcvd	Total number of EAP-AKA received.
mrme-eap-rxmobile-eap-aka-success	Total number of EAP-AKA connections succeeded.
mrme-eap-rxmobile-eap-aka-challenge	Total number of EAP-AKA challenges received.
mrme-eap-rxmobile-eap-aka-failure-rcvd	Total number of EAP AKA requests failed.
mrme-eap-rxmobile-eap-aka-msgs-from-svr-discarded	Total number of EAP-AKA messages from server that are discarded.
mrme-eap-rxmobile-eap-aka-prime-total-rcvd	Total number of EAP-AKA' received.
mrme-eap-rxmobile-eap-aka-prime-success	Total number of EAP-AKA' connections succeeded.
mrme-eap-rxmobile-eap-aka-prime-challenge	Total number of EAP-AKA' challenges received.
mrme-eap-rxmobile-eap-aka-prime-failure-rcvd	Total number of EAP AKA' requests failed.
mrme-eap-rxmobile-eap-aka-prime-msgs-from-svr-discarded	Total number of EAP-AKA' messages from server that are discarded.
mrme-eap-rxmobile-eap-sim-total-rcvd	Total number of EAP-SIM received.
mrme-eap-rxmobile-eap-sim-success	Total number of EAP-SIM connections succeeded.
mrme-eap-rxmobile-eap-sim-challenge	Total number of EAP-SIM challenges received.
mrme-eap-rxmobile-eap-sim-failure-rcvd	Total number of EAP SIM requests failed.
mrme-eap-rxmobile-eap-sim-msgs-from-svr-discarded	Total number of EAP-SIM messages from server that are discarded.
mrme-eap-rxmobile-eap-tls-total-rcvd	Total number of EAP-TLS received.
mrme-eap-rxmobile-eap-tls-success	Total number of EAP-TLS connections succeeded.
mrme-eap-rxmobile-eap-tls-challenge	Total number of EAP-TLS challenges received.
mrme-eap-rxmobile-eap-tls-failure-rcvd	Total number of EAP TLS requests failed.
mrme-eap-rxmobile-eap-tls-msgs-from-svr-discarded	Total number of EAP-TLS messages from server that are discarded.

<b>Bulk Statistics Variables</b>	<b>Description</b>
mrme-eap-rxmobile-eap-ttls-total-rcvd	Total number of EAP-TTLS received.
mrme-eap-rxmobile-eap-ttls-success	Total number of EAP-TTLS connections succeeded.
mrme-eap-rxmobile-eap-ttls-challenge	Total number of EAP-TTLS challenges received.
mrme-eap-rxmobile-eap-ttls-failure-rcvd	Total number of EAP TTLS requests failed.
mrme-eap-rxmobile-eap-ttls-msgs-from-svr-discarded	Total number of EAP-TLS messages from server that are discarded.
mrme-eap-rxmobile-eap-peap-total-rcvd	Total number of EAP-PEAP received.
mrme-eap-rxmobile-eap-peap-success	Total number of EAP-PEAP connections succeeded.
mrme-eap-rxmobile-eap-peap-challenge	Total number of EAP-PEAP challenges received.
mrme-eap-rxmobile-eap-peap-failure-rcvd	Total number of EAP PEAP requests failed.
mrme-eap-rxmobile-eap-peap-msgs-from-svr-discarded	Total number of EAP-PEAP messages from server that are discarded.

## Modified Bulk Statistics

None in this release.

## Deprecated Bulk Statistics

None in this release.

