



Bulk Statistics Changes Quick Reference

This chapter identifies bulk statistics changes added to, modified for, or deprecated from the StarOS 21.23 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 21.23 include:

- [New Bulk Statistics, on page 1](#)
- [Deprecated Bulk Statistics, on page 14](#)
- [Modified Bulk Statistics, on page 15](#)

New Bulk Statistics

APN Schema

The following bulk statistics are added in the APN schema to support the 2G, 3G, 4G, WLAN bulkstats separation feature:

Counters	Description
uplnk-bytes-gtpv2-s2a	Indicates the total number of bytes sent from the APN for a GTPV2 based S2A RAT type towards the Internet/PDN on the Gi interface.
dnlnk-bytes-gtpv2-s2a	Indicates the total number of bytes received for a GTPV2 based S2A RAT type on the Gi interface for the APN.
uplnk-bytes-gtpv2-s2b	Indicates the total number of bytes sent from the APN for a GTPV2 based S2B RAT type towards the Internet/PDN on the Gi interface.
dnlnk-bytes-gtpv2-s2b	Indicates the total number of bytes received for a GTPV2 based S2B RAT type on the Gi interface for the APN.

dyn-ipv4-success-eutran	Indicates the total number of IPv4 contexts requesting dynamically assigned IP addresses that were successfully setup for a EUTRAN RAT type.
dyn-ipv4-success-gtpv2-s2a	Indicates the total number of IPv4 contexts requesting dynamically assigned IP addresses that were successfully setup for a GTPV2 based S2A RAT type.
dyn-ipv4-success-gtpv2-s2b	Indicates the total number of IPv4 contexts requesting dynamically assigned IP addresses that were successfully setup for a GTPV2 based S2B RAT type.
dyn-ipv6-success-eutran	Indicates the total number of IPv6 contexts requesting dynamically assigned IP addresses that were successfully setup for a EUTRAN RAT type.
dyn-ipv6-success-gtpv2-s2a	Indicates the total number of IPv6 contexts requesting dynamically assigned IP addresses that were successfully setup for a GTPV2 based S2A RAT type.
dyn-ipv6-success-gtpv2-s2b	Indicates the total number of IPv6 contexts requesting dynamically assigned IP addresses that were successfully setup for a GTPV2 based S2B RAT type.
dyn-ipv4v6-success-eutran	Indicates the total number of IPv4v6 contexts requesting dynamically assigned IP addresses that were successfully setup for a EUTRAN RAT type.
dyn-ipv4v6-success-gtpv2-s2a	Indicates the total number of IPv4v6 contexts requesting dynamically assigned IP addresses that were successfully setup for a GTPV2 based S2A RAT type.
dyn-ipv4v6-success-gtpv2-s2b	The total number of IPv4v6 contexts requesting dynamically assigned IP addresses that were successfully setup for a GTPV2 based S2B RAT type.
upc-rx-geran	Indicates the total number of Update PDP Context Request messages received from the SGSN(s) for a GERAN RAT type per APN.
upc-tx-geran	Indicates the total number of Update PDP Context Request messages sent to the SGSN(s) for a GERAN RAT type per APN.
upc-rx-accept-geran	Indicates the total number of Update PDP Context Response messages received from SGSN(s) containing a cause value of 128 (80H, Request accepted) for a GERAN RAT type per APN.

upc-tx-accept-geran	Indicates the total number of Update PDP Context Response messages sent to the SGSN(s) containing a cause value of 128 (80H, Request accepted) for a GERAN RAT type per APN.
upc-rx-utran	Indicates the total number of Update PDP Context Request messages received from the SGSN(s) for a UTRAN RAT type per APN.
upc-tx-utran	Indicates the total number of Update PDP Context Request messages sent to the SGSN(s) for a UTRAN RAT type per APN.
upc-rx-accept-utran	Indicates the total number of Update PDP Context Response messages received from SGSN(s) containing a cause value of 128 (80H, Request accepted) for a UTRAN RAT type per APN.
upc-tx-accept-utran	Indicates the total number of Update PDP Context Response messages sent to the SGSN(s) containing a cause value of 128 (80H, Request accepted) for a UTRAN RAT type per APN.
cpc-accept-geran	Indicates the total number of Create PDP Context Response messages transmitted containing a cause value of 128 (80H, Request accepted) for a GERAN RAT type per APN.
cpc-accept-utran	Indicates the total number of Create PDP Context Response messages transmitted containing a cause value of 128 (80H, Request accepted) for a UTRAN RAT type per APN.
cpc-nomem-geran	Indicates the total number of reject Create PDP Context Response messages transmitted to the SGSN(s) sent with a cause code of 212 (D4H, No memory is available) for a GERAN RAT type per APN.
cpc-nomem-utran	Indicates the total number of reject Create PDP Context Response messages transmitted to the SGSN(s) sent with a cause code of 212 (D4H, No memory is available) for a UTRAN RAT type per APN.
cpc-noresource-geran	Indicates the total number of reject Create PDP Context Response messages transmitted to the SGSN(s) sent with a cause code of 199 (C7H, No resources available) for a GERAN RAT type per APN.

cpc-noresource-utran	Indicates the total number of reject Create PDP Context Response messages transmitted to the SGSN(s) sent with a cause code of 199 (C7H, No resources available) for a UTRAN RAT type per APN.
cpc-srv-not-supp-geran	Indicates the total number of reject Create PDP Context Response messages transmitted to the SGSN(s) sent with a cause code of 200 (C8H, service not Supported) for a GERAN RAT type per APN.
cpc-srv-not-supp-utran	Indicates the total number of reject Create PDP Context Response messages transmitted to the SGSN(s) sent with a cause code of 200 (C8H, service not Supported) for a UTRAN RAT type per APN.
cpc-sys-fail-geran	Indicates the total number of reject Create PDP Context Response messages transmitted to the SGSN(s) sent with a cause code of 204 (CCH, System failure) for a GERAN RAT type per APN.
cpc-sys-fail-utran	Indicates the total number of reject Create PDP Context Response messages transmitted to the SGSN(s) sent with a cause code of 204 (CCH, System failure) for a UTRAN RAT type per APN.
cpc-auth-fail-geran	Indicates the total number of reject Create PDP Context Response messages transmitted to the SGSN(s) sent with a cause code of 209 for a GERAN RAT type per APN.
cpc-auth-fail-utran	Indicates the total number of reject Create PDP Context Response messages transmitted to the SGSN(s) sent with a cause code of 209 for a UTRAN RAT type per APN.
cpc-no-apn-subscription-geran	Indicates the total number of reject Create PDP Context Response messages transmitted to the SGSN(s) sent for a GERAN RAT type per APN because there was no apn subscription.
cpc-no-apn-subscription-utran	Indicates the total number of reject Create PDP Context Response messages transmitted to the SGSN(s) sent for a UTRAN RAT type per APN because there was no apn subscription.
cpc-missing-apn-geran	Indicates the total number of reject Create PDP Context Response messages transmitted to the SGSN(s) sent with a cause code of 219 (DBH, Missing or unknown APN) for a GERAN RAT type per APN.

cpc-missing-apn-utran	Indicates the total number of reject Create PDP Context Response messages transmitted to the SGSN(s) sent with a cause code of 219 (DBH, Missing or unknown APN) for a UTRAN RAT type per APN.
cpc-addr-occupied-geran	Indicates the total number of reject Create PDP Context Response messages transmitted to the SGSN(s) sent with a cause code of 211 (D3H, All dynamic PDP addresses are occupied) for a GERAN RAT type per APN.
cpc-addr-occupied-utran	Indicates the total number of reject Create PDP Context Response messages transmitted to the SGSN(s) sent with a cause code of 211 (D3H, All dynamic PDP addresses are occupied) for a UTRAN RAT type per APN.

DPCA-IMSA Schema

The following bulk statistics are added in the DPCA-IMSA Schema to support Statistics of overlapping and time-out request.

Counters	Description
dpca-imsa-exp-late-overlapping-request	Displays the total number of times the diameter experimental result code <code>DIAMETER_ERROR_LATE_OVERLAPPING_REQUEST(5453)</code> is received in CCA message.
dpca-imsa-exp-timed-out-request	Displays the total number of times the diameter experimental result code <code>DIAMETER_ERROR_TIME_OUT_REQUEST(5454)</code> is received in CCA message.

eGTP-C Schema

The following new bulk statistics variables are added to the eGTP-C schema in support of APN, QCI, and ARP-based DSCP Mapping for WPS Sessions feature. These statistics are only for the current bulkstat intervals.



Note This feature has not been validated for all customer deployment scenarios. Please contact your Sales Account team for support.

Counters	Description
s11-tun-recv-modbearerreq-wps	Shows the total number of tunnel modify bearer request messages received by the system for WPS subscriber on the s11 interface.
s11-tun-sent-modbearerresp-wps	Shows the total number of tunnel modify bearer response messages sent by the system for WPS subscriber on the s11 interface.

Counters	Description
s11-tun-sent-crebearerreq-wps	Shows the total number of tunnel create bearer request messages sent by the system for WPS subscriber on the s11 interface.
s11-tun-recv-crebearerresp-wps	Shows the total number of tunnel create bearer response messages received by the system for WPS subscriber on the s11 interface.
s11-tun-sent-updbearerreq-wps	Shows the total number of tunnel update bearer request messages sent by the system for WPS subscriber on the s11 interface s11.
s11-tun-recv-updbearerresp-wps	Shows the total number of tunnel update bearer response messages received by the system for WPS subscriber on the s11 interface .
tun-sent-cressesreq-wps	Shows the total number of tunnel create session request messages sent by the system for WPS subscriber on the S5/S8 interface .
tun-recv-updbearerresp-wps	Shows the total number of tunnel update bearer response messages received by the system for WPS subscriber on the S5/S8 interface.
tun-sent-updbearerresp-wps	Shows the total number of tunnel update bearer response messages sent by the system for WPS subscriber on the S5/S8 interface .

epdg-plmn schema

The following bulk statistics are added in the epdg-plmn-schema to support Bulk Statistics Variables.

Counters	Description
plmn-mcc	The PLMN MCC for which this statistics is collected. This is a key variable.
plmn-mnc	The PLMN MNC for which this statistics is collected. This is a key variable.
plmn-totsetup-success	Indicates that total setup success.
plmn-tot-success-handoff	Indicates that total number of successful LTE to Wi-Fi handoffs.
plmn-tot-handoff-attempts	Indicates that total number of LTE to Wi-Fi handoff attempts.
plmn-totsetup-attempt	Indicates that total setup attempt.
plmn-totattempt-failure	Indicates that total failure attempts.
plmn-totgtp-curr-ue-in-sys	Indicates that total GTP active UEs in the system.
plmn-curses	Indicates that total number of current ePDG sessions.
plmn-tot-success-handoff	Indicates that total number of successful handoff sessions.

Counters	Description
plmn-pgw-fallback-succeeded	Indicates that total number of P-GW Fallback sessions succeeded.
plmn-pgw-fallback-attempted	Indicates that total number of P-GW Fallback sessions attempted.
plmn-reauthor-success	Indicates that total number of reauthorization success messages.
plmn-reauthor-attempt	Indicates that total number of reauthorization attempted messages.
plmn-eap-rxsuccsrvpassthru	Indicates that total number of successful EAP server statistics received on pass through mode.
plmn-eap-rxttlsrvpassthru	Indicates that total number of EAP server statistics received on pass through mode.
plmn-sess-disconnect-remote	Indicates that total number of Remote disconnect sessions at PLMN level.
plmn-sess-disconnect-admin	Indicates that total number of Administrator disconnect sessions at PLMN level.
plmn-sess-disconnect-idle-timeout	Indicates that total number of disconnect sessions due to idle timeout reasons.
plmn-sess-disconnect-abs-timeout	Indicates that total number of disconnect sessions due to absolute timeout reasons.
plmn-sess-disconnect-longdur-timeout	Indicates that total number of disconnect sessions due to long duration timeout.
plmn-sess-disconnect-sesssetup-timeout	Indicates that total number of session disconnects due to setup timeout.
plmn-sess-disconnect-noresource	Indicates that total number of session disconnects due to non-availability of resources.
plmn-sess-disconnect-authfail	Indicates that total number of session disconnects due to authentication failure.
plmn-sess-disconnect-flowadd-failure	Indicates that total number of session disconnects due to flow add failure.
plmn-sess-disconnect-invalid-dest	Indicates that total number of session disconnects due to invalid destination context.
plmn-sess-disconnect-srcaddr-violation	Indicates that total number of session disconnects due to source address violation.
plmn-sess-disconnect-lmarevoc	Indicates that total number of session disconnects due to LMA revocation.

Counters	Description
plmn-sess-disconnect-dupreq	Indicates that total number of session disconnects due to duplicate requests.
plmn-sess-disconnect-addrassign-failure	Indicates that total number of sessions disconnects due to address assignation failure.
plmn-sess-disconnect-handoff	Indicates that total number of sessions disconnects due to LTE and other handoff
plmn-sess-disconnect-misc	Indicates that total number of session disconnects due to miscellaneous reasons.
plmn-ikev2-auth-p1 succ	Indicates that total number of IKEv2 authentication phase 1 success messages.
plmn-ikev2-auth-p1 req	Indicates that total number of IKEv2 authentication phase 1 request messages.
plmn-ikev2-auth-p1 fail	Indicates that total number of IKEv2 authentication phase 1 failure messages.
plmn-ikev2-ikesadelrep-recv	Indicates that total number of IKEv2 SA delete request received.
plmn-ikev2-ikesadelrep-sent	Indicates that total number of IKEv2 SA delete requests sent.
plmn-der-req-id-sent	Indicates total number of DER messages transmitted.
plmn-dea-chal-rcvd	Indicates that total number of DEA Challenge messages received.
plmn-dea-acpt-rcvd	Indicates that total number of DEA Accept messages received.
plmn-diamauth-msg-rar	Indicates that total number of RAR messages received.
plmn-diamauth-msg-raa	Indicates that total number of RAA messages transmitted.
plmn-diamauth-msg-asr	Indicates that total number of ASR messages received.
plmn-diamauth-msg-asa	Indicates that total number of ASA messages transmitted.
plmn-diamauth-msg-str	Indicates that total number of STR messages transmitted.
plmn-totgtp-attempt	.Indicates total number of GTP attempts on S2b interface.
plmn-totgtp-success	Indicates that total number of successful GTP sessions on S2b interface.

Counters	Description
plmn-totgtp-failure	IndicateDisplays total number of failed GTP sessions
plmn-tun-recv-crebear	Indicates that total number of Create Bearer Request messages received.
plmn-tun-sent-crebearrespacept	Indicates that total number of Create Bearer Response Accepted messages transmitted.
plmn-tun-recv-crebearDiscard	Indicates that total number of Create Bearer Request Discarded messages received.
plmn-tun-sent-crebearres	Indicates that total number of Create Bearer Response transmitted.
plmn-tun-sent-crebearrespdnied	Indicates that total number of Create Bearer Response Denied messages transmitted.
plmn-tun-sent-delsessreq	Indicates that total number of Delete session requests transmitted.
plmn-tun-recv-delsessrespacept	Indicates that total number of Delete session response accepted messages received.

samog-plmn-schema

The following bulk statistics are added in the samog-plmn-schema to support Bulk Statistics Variables.

Counters	Description
plmn-mcc	The PLMN MCC context configured at the PLMN level that is currently facilitating the SaMOG Service. This is a key variable.
plmn-mnc	The PLMN MNC context configured at the PLMN level that is currently facilitating the SaMOG service. This is a key variable.
plmn-mrme-access-mode-gtpv2-selected	Indicates that the Network access mode statistics for the selected gtpv2 interface.
plmn-mrme-eap-call-attempted	Indicates that the total number of MRME EAP Session Attempted.
plmn-mrme-eap-call-success	Indicates that the total number of successful MRME EAP sessions.
plmn-mrme-eap-call-failure	Indicates that the total number of failed MRME EAP sessions.
plmn-mrme-eap-call-current	Indicates that the total number of current MRME EAP sessions.
plmn-cgw-sessstat-pdns-gtpv2-active	Indicates that the total number of session statistics active for PDN gtpv2 interface.
plmn-dhcp-cursersvess	Indicates that the total number of DHCP server sessions that are active.
plmn-sess-total-setup	Indicates that the total number of DHCP Sessions setup.

Counters	Description
plmn-total-released	Indicates that the total number of DHCP sessions released.
plmn-dhcp-msg-discover-rx	Indicates that the total number of DHCP discover messages received.
plmn-dhcp-msg-offer-tx	Indicates that the total number of DHCP offer messages transmitted.
plmn-dhcp-msg-request-rx	Indicates that the total number of DHCP request messages received.
plmn-dhcp-msg-ack-tx	Indicates that the total number of DHCP acknowledgment messages transmitted.
plmn-dhcp-msg-nak-tx	Indicates that the total number of transmitted DHCP messages that are not acknowledged.
plmn-cgw-sessstat-ipv6-router-advt-sent	Indicates that the total number of router advertisement messages sent.
plmn-tun-sent-creseas	Indicates the total number of Create Sessions Request Initially transmitted.
plmn-tun-recv-creseasrespaccept	Indicates that the total number of Create Session Response Accepted messages received.
plmn-tun-recv-crebear	Indicates that the total number of Create Bearer Requests Initial messages received.
plmn-tun-sent-crebearrespaccept	Indicates that the total number of Create Bearer Response Accepted messages transmitted.
plmn-tun-sent-delsessreq	Indicates that the total number of Delete Session Request Initial messages transmitted.
plmn-tun-recv-delsessrespaccept	Indicates that the total number of Delete Session Response Accepted messages received.
plmn-tun-recv-delbearreq	Indicates that the total number of Delete Bearer Request Initial messages received.
plmn-tun-sent-delbearrespaccept	Indicates that the total number of Delete Bearer Response Accepted messages transmitted.
plmn-der-req-id-sent	Indicates the total number of DE Requests.
plmn-dea-chal-rcvd	Indicates that the total number of DEA Challenge statistics received.
plmn-dea-acpt-rcvd	Indicates that the total number of DEA Accept statistics received.
plmn-diamauth-msg-asr	Indicates that the total number of Diameter authentication messages are received for ASR.

Counters	Description
plmn-diamauth-msg-asa	Indicates the total number of Diameter authentication messages received for ASA.
plmn-diamauth-msg-rar	Indicates the total number of Diameter authentication messages received for RAR.
plmn-diamauth-msg-raa	Indicates that the total number of Diameter authentication messages for RAA.
plmn-diamauth-msg-str	Indicates that the total number of Diameter authentication messages are received for STR.
plmn-diamauth-msg-sta	Indicates that the total number of Diameter authentication messages are received for STA.
plmn-acc-req-sent	Indicates that the total number of PLMN accounting requests sent.
plmn-acc-rsp-rcvd	Indicates that the total number of PLMN accounting responses are received.
plmn-acc-start-sent	Indicates that the total number of PLMN accounting start messages are sent.
plmn-acc-stop-sent	Indicates that the total number of PLMN accounting stop messages sent.
plmn-acc-req-timeout	Indicates that the total number of PLMN accounting requests timed out.

MT Voice CSFB

The following bulk statistics are added in the MT Voice CSFB to support Bulk Statistics Variables.

Counters	Description
csfb-mt-voice-sgs-paging-request	This counter records all non-retransmitted SGS Paging Requests rx'd from MSC (i.e. The starting point of all the MT CSFB Voice procedures both Idle and Active modes).
csfb-mt-voice-failure-paging-timeout	This counter records max re-transmission timeout failure when eNB/UE do not respond to MME paging request (Idle mode error).
csfb-mt-voice-failure-miscellaneous	This counter records miscellaneous internal errors such as software errors, internal non-delivery errors, internal aborts, message validation errors, collision with start of MO Voice CSFB procedure etc (i.e. Errors not directly linked to the 3GPP spec procedures).

csfb-mt-voice-failure-ext-srv-req-reject	This counter records the failure when the cause code in the Extended Service Request is NOT CSFB Accept (Idle and Active modes).
csfb-mt-voice-failure-init-ctxt-setup	This counter records any Initial Context Setup Response failures encountered during the Idle mode scenario.
csfb-mt-voice-failure-cs-notification	This counter records non-delivery/max-retransmission timeout of the CS NOTIFICATION to the UE (Active mode scenario).
csfb-mt-voice-failure-ue-ctxt-mod	This counter records any UE Context Modification failures (either timeout or failure response - Active mode).
csfb-mt-voice-failure-sgs-service-abort-req	This counter records any procedure aborts based on the MT Voice Cancelled flag which is set when rx'ing the SGS service Abort Request from the MSC/VLR.
csfb-mt-voice-failure-ue-ctxt-rel-misc	This counter records any other S1 UE Context Release error or cause code that doesn't equal "cs-fallback-triggered = 23" but not the other cause codes stated above (Active mode no HO).
csfb-mt-voice-success-ue-ctxt-rel	This counter records the final success when a S1 UE Context Release response has cause-code "cs-fallback-triggered=23" (Active mode no HO). Successful end-point of the MT CSFB Voice with no HO.

IMSA Schema

The following bulk statistics are included in the IMSA Schema to track high and low priority categories for WPS and Non-WPS users for the APN, QCI, and ARP-based DSCP Mapping for WPS Sessions feature.



Note This feature has not been validated for all customer deployment scenarios. Please contact your Sales Account team for support.

Counters	Description
dpca-imsa-total-session-priority-channel	Shows the cumulative number of Wireless Priority subscribers.
dpca-imsa-total-sessions-switched-from-priority-channel	Shows the cumulative number of subscribers moved from Wireless Priority to Normal.
dpca-imsa-total-sessions-switched-to-priority-channel	Shows the cumulative number of subscribers moved from Normal to Wireless Priority.

P-GW Schema

The following bulk statistics are added in the epdg-plmn-schema to support Bulk Statistics Variables for the APN, QCI, and ARP-based DSCP Mapping for WPS Sessions feature.



Note This feature has not been validated for all customer deployment scenarios. Please contact your Sales Account team for support.

Counters	Description
sessstat-pdn-wps-cumulative-activated	Shows the total number of P-GW PDNs that are either setup as an WPS PDN or upgrades to an WPS PDN.
sessstat-pdn-wps-cumulative-deactivated	The total number of P-GW PDNs that were either released or degrades to a non-WPS PDN.

P-GW eGTP-C S5/S8 Schema

The following bulk statistics are added to the P-GW eGTP-C S5/S8 schema in support of the APN, QCI, and ARP-based DSCP Mapping for WPS Sessions feature.



Note This feature has not been validated for all customer deployment scenarios. Please contact your Sales Account team for support.

Counters	Description
tun-recv-cresessreq-wps	Shows the total number of tunnel create session request messages received by the system for WPS subscriber on the S5/S8 interface.
tun-sent-cresessresp-wps	Shows the total number of tunnel create session response messages sent by the system for WPS subscriber on the S5/S8 interface.
tun-recv-modbearerreq-wps	Shows the total number of tunnel modify bearer request messages received by the system for WPS subscriber on the S5/S8 interface.
tun-sent-modbearerresp-wps	Shows the total number of tunnel modify bearer response messages sent by the system for WPS subscriber on the S5/S8 interface.
tun-sent-crebearerreq-wps	Shows the total number of tunnel create bearer request messages sent by the system for WPS subscriber on the S5/S8 interface.
tun-recv-crebearerresp-wps	Shows the total number of tunnel create bearer response messages received by the system for WPS subscriber on the S5/S8 interface.
tun-sent-updbearerreq-wps	Shows the total number of tunnel update bearer request messages sent by the system for WPS subscriber on the S5/S8 interface.
tun-recv-updbearerresp-wps	Shows the total number of tunnel update bearer response messages received by the system for WPS subscriber on the S5/S8 interface.

SAEGW Schema

The following bulk statistics are added in the SAEGW schema to support the APN, QCI, and ARP-based DSCP Mapping for WPS Sessions feature.



Note This feature has not been validated for all customer deployment scenarios. Please contact your Sales Account team for support.

Counters	Description
pgw-anchor-pdns-wps-cumulative-activated	Shows the total number of P-GW anchored PDNs that are either setup as an WPS PDN or upgrades to an WPS PDN.
pgw-anchor-pdns-wps-cumulative-deactivated	Shows the total number of P-GW anchored PDNs that were either released or degrades to a non-WPS PDNs.
saegw-colocated-pdns-wps-cumulative-activated	Shows the total number of SAE-GW collapsed PDNs that are either setup as an WPS PDN or upgrades to an WPS PDN.
saegw-colocated-pdns-wps-cumulative-deactivated	Shows the total number of SAE-GW collapsed PDNs that were either released or degrades to a non-WPS PDN.
sgw-anchor-pdns-wps-cumulative-activated	Shows the total number of S-GW anchored PDNs that are either setup as an WPS PDN or upgrades to an WPS PDN.
sgw-anchor-pdns-wps-cumulative-deactivated	Shows the total number of S-GW anchored PDNs that were either released or degrades to a non-WPS PDN.

S-GW Schema

The following bulk statistics are included in the S-GW Schema to support the APN, QCI, and ARP-based DSCP Mapping for WPS Sessions feature.



Note This feature has not been validated for all customer deployment scenarios. Please contact your Sales Account team for support.

Counters	Description
sessstat-pdn-wps-cumulative-activated	Shows the total number of S-GW PDNs that are either setup as an WPS PDN or upgrades to an WPS PDN.
sessstat-pdn-wps-cumulative-deactivated	The total number of S-GW PDNs that were either released or degrades to a non-WPS PDN.

Deprecated Bulk Statistics

None in this release.

Modified Bulk Statistics

None in this release.

