

show sgw

This chapter describes the output of the **show sgw** command.

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show sgw-service all

Displays configuration information for all S-GW services configured on the system.

Table 1: show sgw-service all Command Output Descriptions

Field	Description
Service name	The name of the S-GW service.
Service-ID	The system generated identification number of the service.
Context	The context name where the service is located.
Accounting context	The context where the accounting configuration and or interfaces are configured.
Accounting mode	The accounting mode to be used for the S-GW service – GTTP (default), RADIUS/Diameter or none.
Status	The status of the service.
Egress Protocol	The egress protocol, such as "gtp-pmip"
Ingress EGTP service	The ingress eGTP service configured for this S-GW service.
Egress context	The egress context configured for this service.
Egress EGTP service	The egress eGTP service configured for this S-GW service.
Egress MAG service	The egress Mobile Access Gateway (MAG) service configured for this service.
IMS auth. service	The IMS authorization (IMSA) service used by this service for IMS subscribers.

Field	Description
Accounting policy	The name of the operator policy associated with accounting for this service.
Newcall policy	The newcall policy configured for this service.
S-GW Interface Excluded	Excludes the specified interface.
QCI-QOS mapping table	The QoS Class Index to QoS mapping table configured for use with this service.
GTPC Path Failure Handling	
S11-Interface	**local-purge**: The S-GW clears the affected bearer (or PDN if the path failure is received on a default bearer) locally without informing the peers. This is the default action for all interfaces. **signal-peer**: The S-GW initiates control signalling towards the peer MME and P-GW.
S5-Interface	
S1U-Interface	
S5U-Interface	
S4U-Interface	
S12-Interface	
GTPU Error Indication Handling	
S1U-Interface	**local-purge**: The S-GW clears the affected bearer (or PDN if the error indication is received on the default bearer) locally without informing the peers. **page-ue**: The S-GW moves the complete UE state to S1-Idle and starts paging for this UE. This is the default action for GTP-U error indication messages received on the S12 and S1-U interfaces.
S5U-Interface	
S12-Interface	
S4U-Interface	
Idle timeout	Indicates the time, in seconds configured for the SGW Session Idle Timer. Once configured, the Session Idle Timer will tear down those sessions that remain idle for longer than the configured time limit.
Idle timeout micro checkpoint periodicity	If configured, shows the ICSR micro checkpoint periodicity for idlesecs. This way the operators can configure this setting to a large value to suit their need to reduce the number of micro checkpoints on the srp link. If not configured, the default value Idle timeout of 10 seconds is used.
PLMN ID List	List of Public Land Mobile Network (PLMN) identifiers associated with the operator policy for this service. A PLMN ID consists of the Mobile Country Code (MCC) + Mobile network Code (MCC).
Subscriber Map Name	Name of the subscriber map associated with the operator policy for this service.
GTP-C Load Control Profile	Shows the name of the R12 Load Support profile, if configured.
GTP-C Overload Control Profile	Shows the name of the R12 Overload Support profile, if configured.

show sgw-service name

Displays configuration information for S-GW services configured on the system.

Table 2: show sgw-service name Command Output Descriptions

Field	Description
EGTP Ignore ULI IE with SAI/RAI/CGI in Change Notification Req for EUTRAN	Indicates that **egtp change-notification-req rat-type eutran ignore-uli-with-rai-sai-cgi** CLI is enabled ot disabled under S-GW services.

show sgw-service statistics all verbose

Table 3: show sgw-service statistics all Command Output Descriptions

Field	Description
Session Level Statistics	
Current	
UE	
Idle	The total number of UE sessions currently idle.
Idle-ISR	The total number of Idle-mode Signaling Reduction UE sessions currently idle.
Active	The total number of UE sessions currently active.
Active-ISR	The total number of Idle-mode Signaling Reduction UE sessions currently active.
PDN	The total number of current PDN sessions.
Home	The total number of current home PDN sessions.
Roaming	The total number of current roaming PDN sessions.
Visiting	The total number of current visiting PDN sessions.
Bearers	The total number of current Bearers.
Ind-Fwd-Tunnels	Indirect forward tunneling: The total number of current tunnels.
Ind-Fwd-Bearers	Indirect forward tunneling: The total number of current bearers.
Traffic Policing	
uplink pkts red	The total number of uplink packets marked red by the trTCM algorithm.
uplink bytes red	The total number of uplink bytes marked red by the trTCM algorithm.
uplink pkts yellow	The total number of uplink packets marked yellow by the trTCM algorithm.

Field	Description
uplink bytes yellow	The total number of uplink bytes marked yellow by the trTCM algorithm.
uplink pkts green	The total number of uplink packets marked green by the trTCM algorithm.
uplink bytes green	The total number of uplink bytes marked green by the trTCM algorithm.
uplink pkts dropped	The total number of uplink packets dropped due to exceeding or violating the Peak Information Rate (PIR) or the Committed Information Rate (CIR).
uplink bytes dropped	The total number of uplink bytes dropped due to exceeding or violating the Peak Information Rate (PIR) or the Committed Information Rate (CIR).
uplink pkts low ip prec	The total number of uplink packets that were transmitted after the IP precedence was lowered due to exceeding or violating the Peak Information Rate (PIR) or the Committed Information Rate (CIR).
uplink bytes low ip prec	The total number of uplink bytes that were transmitted after the IP precedence was lowered due to exceeding or violating the Peak Information Rate (PIR) or the Committed Information Rate (CIR).
uplink pkts transmitted	The total number of uplink packets that were transmitted even after exceeding or violating the Peak Information Rate (PIR) or the Committed Information Rate (CIR).
uplink bytes transmitted	The total number of uplink packets that were transmitted even after exceeding or violating the Peak Information Rate (PIR) or the Committed Information Rate (CIR).
downlink pkts red	The total number of downlink packets marked red by the trTCM algorithm.
downlink bytes red	The total number of downlink bytes marked red by the trTCM algorithm.
downlink pkts yellow	The total number of downlink packets marked yellow by the trTCM algorithm.
downlink bytes yellow	The total number of downlink bytes marked yellow by the trTCM algorithm.
downlink pkts green	The total number of downlink packets marked green by the trTCM algorithm.
downlink bytes green	The total number of downlink bytes marked green by the trTCM algorithm.
downlink pkts dropped	The total number of downlink packets dropped due to exceeding or violating the Peak Information Rate (PIR) or the Committed Information Rate (CIR).
downlink bytes dropped	The total number of downlink bytes dropped due to exceeding or violating the Peak Information Rate (PIR) or the Committed Information Rate (CIR).
downlink pkts low ip prec	The total number of downlink packets that were transmitted after the IP precedence was lowered due to exceeding or violating the Peak Information Rate (PIR) or the Committed Information Rate (CIR).
downlink bytes low ip prec	The total number of downlink bytes that were transmitted after the IP precedence was lowered due to exceeding or violating the Peak Information Rate (PIR) or the Committed Information Rate (CIR).

Field	Description
downlink pkts transmitted	The total number of downlink packets that were transmitted even after exceeding or violating the Peak Information Rate (PIR) or the Committed Information Rate (CIR).
downlink bytes transmitted	The total number of downlink packets that were transmitted even after exceeding or violating the Peak Information Rate (PIR) or the Committed Information Rate (CIR).
Setup	
UE	The total number of UE session set up.
PDN	The total number of PDN sessions set up.
Bearers	The total number of bearers set up.
PDNs Setup Per PDN-type	
IPv4	The total number of PDN sessions set up using IPv4.
IPv6	The total number of PDN sessions set up using IPv6.
IPv4v6	The total number of PDN sessions set up using IPv4 in IPv6.
PDNs Setup Per Interface	
S11	The total number of PDN sessions set up on an S11 interface.
S4	The total number of PDN sessions set up on an S4 interface.
PDNs Setup Per S5 Proto	
GTP	The total number of PDN sessions set up using GTP tunneling.
PMIP	The total number of PDN sessions set up using PMIP tunneling.
PDNs Released	
IPv4	The total number of PDN sessions released using IPv4.
IPv6	The total number of PDN sessions released using IPv6.
IPv4v6	The total number of PDN sessions released using IPv4 in IPv6.
PDNs Released Reason	
MME Ini	The total number of PDN sessions released - initiated by the MME.
PGW Ini	The total number of PDN sessions released - initiated by the P-GW.
PCRF Ini	The total number of PDN sessions released - initiated by the PCRF.
S4 SGSN Ini	The total number of PDN sessions released - initiated by a Delete Session Request from an S4-SGSN.
Local	The total number of PDN sessions released - initiated locally.

Field	Description
S1 Error Ind	The total number of PDN sessions released due to an S1 interface error.
S5 Error Ind	The total number of PDN sessions released due to an S5 interface error.
Path Failure S11	The total number of PDN sessions released due to an S11 path failure.
Path Failure S1-U	The total number of PDN sessions released due to an S1-U path failure.
Path Failure S5	The total number of PDN sessions released due to an S5 path failure.
Path Failure S5-U	The total number of PDN sessions released due to an S5-U path failure.
Path Failure S4	The total number of PDN sessions released due to an S4 path failure.
Path Failure S4-U	The total number of PDN sessions released due to an S4-U path failure.
Path Failure S12	The total number of PDN sessions released due to an S12 path failure.
Other	The total number of PDN sessions released due to other reasons.
PDNs Rejected	
IPv4	The total number of PDN sessions rejected using IPv4.
IPv6	The total number of PDN sessions rejected using IPv6.
IPv4v6	The total number of PDN sessions rejected using IPv4 in IPv6.
PDNs Rejected Reason	
PGW Ini	The total number of PDN sessions rejected - initiated by the P-GW.
License	The total number of PDN sessions rejected due to license reasons.
Newcall	The total number of PDN sessions rejected due to newcall reasons.
Overload	The total number of PDN sessions rejected due to overload reasons.
Congestion	The total number of PDN sessions rejected due to congestion reasons.
Other	The total number of PDN sessions rejected due to other reasons.
ISR Statistics	
Total ISR Activations	
MME	The total number of ISR activations by an MME.
S4-SGSN	The total number of ISR activations by an S4-SGSN.
Total ISR Deactivations	
MME	The total number of ISR deactivations by an MME.
S4-SGSN	The total number of ISR deactivations by an S4-SGSN.

Field	Description
Call Clear	The total number of ISR deactivations by a call clear.
Bearer Level Statistics	
Total EPS Bearers Setup	
QCI 1 - 9	The total number of EPS bearers set up, with a QoS Class Index.
Non-Std QCI	The total number of EPS bearers set up, with a non-standard QoS Class Index.
Total EPS Bearers Released	
QCI 1 - 9	The total number of EPS bearers released, with a QoS Class Index.
Non-Std QCI	The total number of EPS bearers released, with a non-standard QoS Class Index.
Total EPS Bearers Modified	
QCI 1 - 9	The total number of EPS bearers modified, with a QoS Class Index.
Non-Std QCI	The total number of EPS bearers modified, with a non-standard QoS Class Index.
Dedicated Bearers Released Reason	
PGW Ini	The total number of dedicated bearers released - initiated by the P-GW.
PCRF Ini	The total number of dedicated bearers released - initiated by the PCRF.
S1 Error Ind	The total number of dedicated bearers released due to an S1 interface error.
S5 Error Ind	The total number of dedicated bearers released due to an S5 interface error.
S4-U Error Ind	The total number of dedicated bearers released due to an S4-U interface error.
S12 Error Ind	The total number of dedicated bearers released due to an S12 interface error.
Local	The total number of dedicated bearers released - initiated locally.
PDN Down	The total number of dedicated bearers released due to an inaccessible PDN.
Path Failure S1-U	The total number of dedicated bearers released due to an S1-U path failure.
Path Failure S5-U	The total number of dedicated bearers released due to an S5-U path failure.
Path Failure S4-U	The total number of dedicated bearers released due to an S4-U path failure.
Path Failure S12	The total number of dedicated bearers released due to an S12U path failure.
Other	The total number of dedicated bearers released due to other reasons.
Bearers by QoS characteristics	
Active: QCI n	The number of active QoS bearers with a QCI value of 1 through 9 or a QCI value of 65, 66, 69, or 70.

Field	Description
Setup: QCI n	The number of QoS bearers setup with a QCI value of 1 through 9 or a QCI value of 65, 66, 69, or 70.
Released: QCI n	The number of released QoS bearers with a QCI value of 1 through 9 or a QCI value of 65, 66, 69, or 70.
Modified: QCI n	The number of modified QoS bearers with a QCI value of 1 through 9 or a QCI value of 65, 66, 69, or 70.
Dedicated Bearers Released by Reason	
PGW Ini: QCI n	The number of bearers with a QCI value of 1 through 9 or a QCI value of 65, 66, 69, or 70 that were released due to a P-GW initiated action.
PCRF Ini:	The number of bearers released due to a PCRF initiated action.
Non-Std QCI	The number of bearers released with a non-standard QCI value.
S1 Error Ind: QCI n	The number of bearers released with a QCI value of 1 through 9 or a QCI value of 65, 66, 69, or 70 due to an S1 error indication.
Non-Std QCI	The number of bearers with a non-standard QCI value released due to an S1 error indication.
S5 Error Ind: QCI n	The number of bearers released due to an S5 error indication that had a QCI value of 1 through 9 or a QCI value of 65, 66, 69, or 70.
Non Std QCI	The number of bearers released due to an S5 error indication that had a a non-standard QCI value.
S4 Error Ind: QCI n	The number of bearers released due to an S4 error indication that had a QCI value of 1 through 9 or a QCI value of 65, 66, 69, or 70.
Non-Std QCI	The number of bearers released due to an S4 error indication that had a a non-standard QCI value.
S12 Error Ind: QCI n	The number of bearers released due to an S12 error indication that had a QCI value of 1 through 9 or a QCI value of 65, 66, 69, or 70.
Non-std QCI	The number of bearers with a non-standard QCI value released due to an S12 error indication.
Local: QCI n	The number of bearers released due to an local error indication that had a QCI value of 1 through 9 or a QCI value of 65, 66, 69, or 70.
Non-std QCI	The number of bearers with a non-standard QCI value released due to a local error indication.
PDN Down: QCI	The number of bearers released due to a PDN down error indication that had a QCI value of 1 through 9 or a QCI value of 65, 66, 69, or 70.
Non-std QCI	The number of bearers with a non-standard QCI value released due to a PDN down error indication.

Field	Description
Path Failure S1-U: QCI n	The total number of PDN sessions with a QCI value of 1 through 9 or a QCI value of 65, 66, 69, 70 released due to an S1-U path failure.
Non-std QCI	The total number of PDN sessions with a non-standard QCI value that were released due to an S1-U path failure.
Path Failure S5-U: QCI n	The total number of PDN sessions with a QCI value of 1 through 9 or a QCI value of 65, 66, 69, 70 released due to an S5-U path failure.
Non-std QCI	The total number of PDN sessions with a non-standard QCI value that were released due to an S5-U path failure.
Path Failure S5: QCI n	The total number of PDN sessions with a QCI value of 1 through 9 or a QCI value of 65, 66, 69, 70 released due to an S5 path failure.
Non-std QCI	The total number of PDN sessions with a non-standard QCI value that were released due to an S5 path failure.
Path Failure S11: QCI n	The total number of PDN sessions with a QCI value of 1 through 9 or a QCI value of 65, 66, 69, 70 released due to an S11 path failure.
Non-std QCI	The total number of PDN sessions with a non-standard QCI value released due to an S11 path failure.
Path Failure S4-U: QCI n	The total number of PDN sessions with a QCI value of 1 through 9 or a QCI value of 65, 66, 69, 70 released due to an S4-U path failure.
Non-std QCI	The total number of PDN sessions with a non-standard QCI value released due to an S4-U path failure.
Path Failure S12: QCI n	The total number of PDN sessions with a QCI value of 1 through 9 or a QCI value of 65, 66, 69, 70 released due to an S12 path failure.
Non-std QCI	The total number of PDN sessions with a non-standard QCI value released due to an S12 path failure.
Inactivity Timeout: QCI n	The total number of PDN sessions with a QCI value of 1 through 9 or a QCI value of 65, 66, 69, 70 released due to an inactivity timeout.
Non-std QCI	The total number of PDN sessions with a non-standard QCI value released due to an inactivity timeout.
Other: QCI n	The total number of PDN sessions with a QCI value of 1 through 9 or a QCI value of 65, 66, 69, 70 released due other reasons not specified above.
Non-std QCI	The total number of PDN sessions with a non-standard QCI value released due to other reasons not specified above.
Data Statistics Per Interface	
S1U Total Data Statistics	
Uplink	

Field	Description
Total Pkts	The total number of uplink packets over the S1-U interface.
Total Bytes	The total number of uplink bytes over the S1-U interface.
Dropped Pkts	The total number of dropped uplink packets over the S1-U interface.
Dropped Bytes	The total number of dropped uplink bytes over the S1-U interface.
Pkts QCI n	The total number of uplink packets with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Pkts Non-Std QCI	The total number of uplink packets with a non-standard QoS Class Index.
Bytes QCI n	The total number of uplink bytes with a QCI value of 1 through 9 or a QCI value of 65, 66, 69, or 70.
Bytes Non-Std QCI	The total number of uplink bytes with a non-standard QoS Class Index.
Dropped Pkts QCI n	The total number of dropped uplink packets with a QoS Class Index.
Dropped Pkts Non-Std QCI	The total number of dropped uplink packets with a non-standard QoS Class Index.
Dropped Bytes QCI n	The total number of dropped uplink bytes with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Dropped Bytes Non-Std QCI	The total number of dropped uplink bytes with a non-standard QoS Class Index.
Non-Std QCI	The total number of uplink bytes dropped with a non-standard QoS Class Index.
Downlink	
Pkts	The total number of downlink packets over the S1-U interface.
Bytes	The total number of downlink bytes over the S1-U interface.
Dropped Pkts	The total number of dropped downlink packets over the S1-U interface.
Dropped Bytes	The total number of dropped downlink bytes over the S1-U interface.
Pkts QCI n	The total number of downlink bytes with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Pkts Non-Std QCI	The total number of downlink packets with a non-standard QoS Class Index.
Bytes QCI n	The total number of downlink bytes with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Bytes Non-Std QCI	The total number of downlink bytes with a non-standard QoS Class Index.
Dropped Pkts QCI n	The total number of dropped downlink packets with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Dropped Pkts Non-Std QCI	The total number of dropped downlink packets with a non-standard QoS Class Index.

Field	Description
Dropped Bytes QCI n	The total number of dropped downlink bytes with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Dropped Bytes Non-Std QCI	The total number of dropped downlink bytes with a non-standard QoS Class Index.
S4-U Total Data Statistics	
Uplink	
Pkts	The total number of uplink packets over the S4-U interface.
Bytes	The total number of uplink bytes over the S4-U interface.
Dropped Pkts	The total number of dropped uplink packets over the S4-U interface.
Dropped Bytes	The total number of dropped uplink bytes over the S4-U interface.
Pkts QCI n	The total number of uplink packets with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Pkts Non-Std QCI	The total number of uplink packets with a non-standard QoS Class Index.
Bytes QCI n	The total number of uplink bytes with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Bytes Non-Std QCI	The total number of uplink bytes with a non-standard QoS Class Index.
Dropped Pkts QCI n	The total number of dropped uplink packets with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Dropped Pkts Non-Std QCI	The total number of dropped uplink packets with a non-standard QoS Class Index.
Dropped Bytes QCI n	The total number of dropped uplink bytes with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Dropped Bytes Non-Std QCI	The total number of dropped uplink bytes with a non-standard QoS Class Index.
Non-Std QCI	The total number of uplink bytes dropped with a non-standard QoS Class Index.
Downlink	
Pkts	The total number of downlink packets over the S4-U interface.
Bytes	The total number of downlink bytes over the S4-U interface.
Dropped Pkts	The total number of dropped downlink packets over the S4-U interface.
Dropped Bytes	The total number of dropped downlink bytes over the S4-U interface.
Pkts QCI n	The total number of downlink packets with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Pkts Non-Std QCI	The total number of downlink packets with a non-standard QoS Class Index.
Bytes QCI n	The total number of downlink bytes with a QCI value of 1 through 9 or 65, 66, 69, or 70.

Field	Description
Bytes Non-Std QCI	The total number of downlink bytes with a non-standard QoS Class Index.
Dropped Pkts QCI n	The total number of dropped downlink packets with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Dropped Pkts Non-Std QCI	The total number of dropped downlink packets with a non-standard QoS Class Index.
Dropped Bytes QCI n	The total number of dropped downlink bytes with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Dropped Bytes Non-Std QCI	The total number of dropped downlink bytes with a non-standard QoS Class Index.
S12 Total Data Statistics	
Uplink	
Pkts	The total number of uplink packets over the S12 interface.
Bytes	The total number of uplink bytes over the S12 interface.
Dropped Pkts	The total number of dropped uplink packets over the S12 interface.
Dropped Bytes	The total number of dropped uplink bytes over the S12 interface.
Pkts QCI n	The total number of uplink packets with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Pkts Non-Std QCI	The total number of uplink packets with a non-standard QoS Class Index.
Bytes QCI n	The total number of uplink bytes with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Bytes Non-Std QCI	The total number of uplink bytes with a non-standard QoS Class Index.
Dropped Pkts QCI n	The total number of dropped uplink packets with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Dropped Pkts Non-Std QCI	The total number of dropped uplink packets with a non-standard QoS Class Index.
Dropped Bytes QCI n	The total number of dropped uplink bytes with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Dropped Bytes Non-Std QCI	The total number of dropped uplink bytes with a non-standard QoS Class Index.
Non-Std QCI	The total number of uplink bytes dropped with a non-standard QoS Class Index.
Downlink	
Pkts	The total number of downlink packets over the S12 interface.
Bytes	The total number of downlink bytes over the S12 interface.
Dropped Pkts	The total number of dropped downlink packets over the S12 interface.
Dropped Bytes	The total number of dropped downlink bytes over the S12 interface.

Field	Description
Pkts QCI n	The total number of downlink packets with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Pkts Non-Std QCI	The total number of downlink packets with a non-standard QoS Class Index.
Bytes QCI n	The total number of downlink bytes with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Bytes Non-Std QCI	The total number of downlink bytes with a non-standard QoS Class Index.
Dropped Pkts QCI n	The total number of dropped downlink packets with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Dropped Pkts Non-Std QCI	The total number of dropped downlink packets with a non-standard QoS Class Index.
Dropped Bytes QCI n	The total number of dropped downlink bytes with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Dropped Bytes Non-Std QCI	The total number of dropped downlink bytes with a non-standard QoS Class Index.
S5-U Total Data Statistics	
Uplink	
Pkts	The total number of uplink packets over the S5-U interface.
Bytes	The total number of uplink bytes over the S5-U interface.
Dropped Pkts	The total number of dropped uplink packets over the S5-U interface.
Dropped Bytes	The total number of dropped uplink bytes over the S5-U interface.
Pkts QCI n	The total number of uplink packets with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Pkts Non-Std QCI	The total number of uplink packets with a non-standard QoS Class Index.
Bytes QCI n	The total number of uplink bytes with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Bytes Non-Std QCI	The total number of uplink bytes with a non-standard QoS Class Index.
Dropped Pkts QCI n	The total number of dropped uplink packets with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Dropped Pkts Non-Std QCI	The total number of dropped uplink packets with a non-standard QoS Class Index.
Dropped Bytes QCI n	The total number of dropped uplink bytes with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Dropped Bytes Non-Std QCI	The total number of dropped uplink bytes with a non-standard QoS Class Index.
Non-Std QCI	The total number of uplink bytes dropped with a non-standard QoS Class Index.
Downlink	

Field	Description
Pkts	The total number of downlink packets over the S5-U interface.
Bytes	The total number of downlink bytes over the S5-U interface.
Dropped Pkts	The total number of dropped downlink packets over the S5-U interface.
Dropped Bytes	The total number of dropped downlink bytes over the S5-U interface.
Pkts QCI n	The total number of downlink packets with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Pkts Non-Std QCI	The total number of downlink packets with a non-standard QoS Class Index.
Bytes QCI n	The total number of downlink bytes with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Bytes Non-Std QCI	The total number of downlink bytes with a non-standard QoS Class Index.
Dropped Pkts QCI n	The total number of dropped downlink packets with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Dropped Pkts Non-Std QCI	The total number of dropped downlink packets with a non-standard QoS Class Index.
Dropped Bytes QCI n	The total number of dropped downlink bytes with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Dropped Bytes Non-Std QCI	The total number of dropped downlink bytes with a non-standard QoS Class Index.
S8-U Total Data Statistics	
Uplink	
Pkts	The total number of uplink packets over the S8-U interface.
Bytes	The total number of uplink bytes over the S8-U interface.
Dropped Pkts	The total number of dropped uplink packets over the S8 interface.
Dropped Bytes	The total number of dropped uplink bytes over the S8-U interface.
Pkts QCI n	The total number of uplink packets with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Pkts Non-Std QCI	The total number of uplink packets with a non-standard QoS Class Index.
Bytes QCI n	The total number of uplink bytes with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Bytes Non-Std QCI	The total number of uplink bytes with a non-standard QoS Class Index.
Dropped Pkts QCI n	The total number of dropped uplink packets with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Dropped Pkts Non-Std QCI	The total number of dropped uplink packets with a non-standard QoS Class Index.

Field	Description
Dropped Bytes QCI n	The total number of dropped uplink bytes with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Dropped Bytes Non-Std QCI	The total number of dropped uplink bytes with a non-standard QoS Class Index.
Non-Std QCI	The total number of uplink bytes dropped with a non-standard QoS Class Index.
Downlink	
Pkts	The total number of downlink packets over the S8 interface.
Bytes	The total number of downlink bytes over the S8 interface.
Dropped Pkts	The total number of dropped downlink packets over the S8 interface.
Dropped Bytes	The total number of dropped downlink bytes over the S8 interface.
Pkts QCI n	The total number of downlink packets with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Pkts Non-Std QCI	The total number of downlink packets with a non-standard QoS Class Index.
Bytes QCI n	The total number of downlink bytes with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Bytes Non-Std QCI	The total number of downlink bytes with a non-standard QoS Class Index.
Dropped Pkts QCI n	The total number of dropped downlink packets with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Dropped Pkts Non-Std QCI	The total number of dropped downlink packets with a non-standard QoS Class Index.
Dropped Bytes QCI n	The total number of dropped downlink bytes with a QCI value of 1 through 9 or 65, 66, 69, or 70.
Dropped Bytes Non-Std QCI	The total number of dropped downlink bytes with a non-standard QoS Class Index.
Inter-SGW Handover Statistics	
PDNs Incoming	
X2 Based	The total number of incoming X2-based PDNs.
Idle-mode TAU	The total number of incoming PDNs Incoming - Idle-mode TAU
S1 Based	The total number of incoming S1-based PDNs.
PDNs Outgoing	The total number of outgoing PDNs.
Intra-SGW Handover Statistics	
Intra-MME	Intra-MME
Inter-MME	Inter-MME

Field	Description
Intra-SGSN	Intra-SGSN
Inter-SGSN	Inter-SGSN
MME-to-SGSN	MME-to-SGSN
SGSN-to-MME	SGSN-to-MME
Paging Statistics	
Requests	The total number of paging requests.
Success	The total number of paging successes.
Rejects	The total number of paging rejects.
Failures	The total number of paging failures.
Active-Idle Ue Transitions	The total number of Active-Idle UE transitions
Idle-Active Ue Transitions	The total number of Idle-Active UE transitions
Paging Related Data Statistics	
Packets Buffered	The total number of buffered paging packets.
Bytes Buffered	The total number of buffered paging bytes.
Packets Discarded	The total number of discarded paging packets.
Bytes Discarded	The total number of discarded paging bytes.
Idle Mode ACL Statistics	
Packets Discarded	The total number of discarded paging packets due to ACL idle mode.
Bytes Discarded	The total number of discarded paging bytes due to ACL idle mode.
Indirect Forwarding Statistics	
Tunnels Setup	The total number of indirect forwarding tunnels setup.
Tunnels Failed	The total number of failed indirect forwarding tunnels.
Tunnels Released	The total number of indirect forwarding tunnels released.
Bearers Setup	The total number of indirect forwarding bearers setup.
Bearers Released	The total number of indirect forwarding bearers released.
DL Packets Forwarded	The total number of indirect forwarding download packets forwarded.
DL Bytes Forwarded	The total number of indirect forwarding download bytes forwarded.
Source Violations	

Field	Description
Packets Dropped	The total number of packets dropped due to source violations.
Bytes Dropped	The total number of bytes dropped due to source violations.
PDN PLMN Statistics	
Home PDNs	
PDNs active	The total number of home PDNs active.
PDNs setup	The total number of home PDNs setup.
PDNs released	The total number of home PDNs released.
Roaming PDNs	
PDNs active	The total number of roaming PDNs active.
PDNs setup	The total number of roaming PDNs setup.
PDNs released	The total number of roaming PDNs released.
Visiting PDNs	
PDNs active	The total number of visiting PDNs active.
PDNs setup	The total number of visiting PDNs setup.
PDNs released	The total number of visiting PDNs released.
Miscellaneous	
Uplink Data Before MBReq	Uplink data before MBreq
CBReq Rcvd Before CSRsp	CBReq Rcvd before CSRsp
802.1p priority marking statistics	
Uplink: Priority 0-7	The total number of packets sent in the uplink direction marked with a specific (0-7) 802.1p priority. Deprecated in releases 16.0 and later.
Downlink: Priority 0-7	The total number of packets sent in the downlink direction marked with a specific (0-7) 802.1p priority. Deprecated in releases 16.0 and later.
Priority marking statistics	
Uplink: Priority 0-7	The total number of packets sent in the uplink direction marked with an internal QoS priority.
Downlink: Priority 0-7	The total number of packets sent in the downlink direction marked with an internal QoS priority.
Local Call Cleanup Cause Statistics	
Bearer Not in Same State	Total number of EGTPC Assert removals due to the bearer not being in the same state.

Field	Description
Bearer Not In Correct State	Total number of EGTPC Assert removals due to the bearer not being in the correct state.
Duplicate Data TEID	Total number of EGTPC Assert removals due to duplicate data tunnel endpoint identifiers.
Remote Addr Not Compatible	Total number of EGTPC Assert removals due to an incompatible remote address.
Bad Peer	Total number of EGTPC Assert removals due to bad peers.
Bearer Context Missing	Total number of EGTPC Assert removals due to the bearer being missing.
eMPS PDN	
Current Active	
Cumulative Activated	
Cumulative De-activated	
DCNR PDN Statistics	
Active	The total number of current active SGW DCNR PDNs.
Setup	The total number of SGW PDNs that are setup as DCNR PDN.
Released	The total number of SGW DCNR PDNs released.

show sgw-service statistics all

Identifies the real usage of 5G Data DCNR sessions for S-GW.

Table 4: show sgw-service statistics all Command Output Descriptions

Field	Description
DCNR Secondary RAT Data PDN Statistics	

Field	Description
Active	The total number of currently active S-GW DCNR Secondary RAT-Data PDN Sessions. Count is incremented when DCNR bit is set for a PDN session, and a Secondary RAT Data received first time for that session **Note** Irrespective of how many Secondary RAT Data Usage Reports are received for a DCNR PDN, it shall be counted as one. As intention is to count number of real usages of 5G Data DCNR PDNs session, not the Secondary RAT Data Usage Reports. Counter is decremented when the identified DCNR Secondary RAT Data session gets released. **Note** DCNR Secondary RAT Data statistics will be decremented only when the session gets released. There might be also a scenario where DCNR session receives Secondary RAT Data once or twice only and if it is not reported in the subsequent messages from MME / SGW, as per current proposed solution, DCNR Secondary RAT Data statistics will not be decremented till the session is released.
Setup	The total number of cumulative S-GW DCNR Secondary RAT-Data PDN Sessions setup. Count is incremented when DCNR bit is set for a PDN session, and a Secondary RAT Data received first time for that session **Note** Irrespective of how many Secondary RAT Data Usage Reports are received for a DCNR PDN, it shall be counted as one. As intention is to count number of real usages of 5G Data DCNR PDNs session, not the Secondary RAT Data Usage Reports.
Released	The total number of cumulative S-GW DCNR Secondary RAT Data PDNs sessions released. Counter is incremented when the DCNR Secondary RAT Data PDN Session release. It is a cumulative counter, so it will not be decremented