

show pgw

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

- show pgw-service all, on page 1
- show pgw-service name, on page 3
- show pgw-service statistics all, on page 7
- show pgw-service statistics all-name, on page 35

show pgw-service all

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

Table 1: show pgw-service all Command Output Descriptions

Field	Description
Service name	The name of the P-GW service configured and running on the system.
Service-ID	The system-generated identification number associated with the P-GW service name.
Context	The context name where the P-GW service is configured.
Status	Indicates whether the P-GW service is started or not.
EGTP Service	The eGTP service name configured for use by this service.
LMA Service	The LMA service name configured for use by this service.
GGSN Service	The GGSN service name associated with this service.
IPNE Service	Not supported in this release.
S-GW Interface Excluded	Excludes the specified interface.
Priority message Excluded:	Indicates if the priority message is specified. The valid values are Yes and No. The default value is No.
Session-Delete-Delay Timer	Indicates whether there is a delay in terminating a session.

Field	Description
Session-Delete-Delay Timeout	Specifies the time (msecs) to retain a session before terminating it.
PLMN ID List	The Public Land Mobile Network identifier list associated with this P-GW service. A PLMN contains a Mobile Country Code (MCC) and Mobile Network Code (MNC). Up to five PLMN IDs can be configured for each P-GW service.
Newcall Policy	The newcall policy configured for this P-GW service. Specifies whether the P-GW will accept or reject requests for a static IP address if the address is already in use by another session
dns-client Context Name	The context where the DNS client is configured and used by this service.
gx-li context	Refer to the *Lawful Intercept Configuration Guide*.
gx-li transport	Refer to the *Lawful Intercept Configuration Guide*.
QCI-QOS Mapping Table Name	The QoS Class Index to QoS mapping table configured for use with this service.
Authorize	Enables/disables subscriber session authorization with HSS over S6b Diameter interface.
S6b IPv6 Reporting	Specifies whether IPv6 address reporting through AAR towards the S6b interface is enabled or disabled.
Duplicate Subscriber Addr Request	Specifies whether the P-GW will accept or reject requests for a static IP address if the address is already in use by another session.
Fqdn-name	The name of Fully Qualified Domain Name (FQDN) which is used for authorization over S6b interface between P-GW and 3GPP AAA/HSS.
SAEGW service	Specifies whether P-GW service is part of SAEGW service.
EGTP Cause Code Handling	Specifies whether eGTP cause handling has been enabled for this P-GW service.
Temp Failure	Specifies whether eGTP cause handling for temporary failure (cause code 110) has been enabled for this P-GW service.
Retry Timeout	Specifies the time to wait (in seconds) before reattempting Create Bearer Request (CBR)/Modify Bearer Request (MBR)/Update Bearer Request (UBR) when the P-GW receives a temporary failure response from a peer.
Maximum Retry	Specifies the maximum number of retries to attempt. The P-GW discards CBR/MBR/UBR after the maximum number of retries are exceeded.
EGTP Modify bearer res with CHARGING-ID	Indicates whether Modify Bearer Response message with Charging-ID is enabled or disabled.
EGTP Modify bearer res with CHARGING-FQDN or CHARGING-GW-ADDRESS	Indicates whether Modify Bearer Response message with Charging FQDN or Charging Gateway address is enabled or disabled.
EGTP Modify bearer res with MSISDN	Indicates whether Modify Bearer Response message with MSISDN is enabled or disabled.

Field	Description
EGTP SGW Restoration Handling	
Session Hold Timer	Displays if the session Hold Timer is valid or not.
Timeout	Displays the Configured Session Hold Timer timeout value in seconds.
EGTP Modify bearer cmd negotiate qos	Displays the configuration of the egtp modify-bearer-cmd-negotiate-qos command, either Enabled (P-GW ignores the new QoS value in the modify bearer command and uses old QoS value which is already applied) or Disabled (Default, P-GW accepts new QoS value from modify bearer command while PCRF is unreachable or disabled).
EGTP Bit Rate in Rounded Kpbs	Enable/Disable rounded down Kbps value of Bit Rate on GTP interface.
EGTP Suppress Update Bearer Request (no bitrate change)	Indicates if the UBR Suppression feature is enabled or disabled.
P-CSCF Restoration solution	Indicates the type of mechanism being used for P-CSCF failure detection. Can be either HSS-based (Private Extn) or HSS-Based MME-Triggered (Rel12).
P-CSCF Restoration supported for Emergency PDNs	Indicates whether P-CSCF Restoration is enabled for Emergency PDNs. **Important** This functionality is license dependent. For more information, contact your Cisco account representative.
Re-Auth After s6b Triggered P-CSCF Restoration	Indicates whether Re-Auth after S6b triggered P-CSCF Restoration of WLAN is enabled. **Important** This functionality is license dependent. For more information, contact your Cisco account representative.

show pgw-service name

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

Table 2: show pgw-service name Command Output Descriptions

Field	Description
Service name	The name of the P-GW service configured and running on the system.
Service-ID	The system-generated identification number associated with the P-GW service name.
Context	The context name where the P-GW service is configured.
Status	Indicates whether the P-GW service is started or not.

Field	Description
EGTP Service	The eGTP service name configured for use by this service.
LMA Service	The LMA service name configured for use by this service.
GGSN Service	The GGSN service name associated with this service.
IPNE Service	Not supported in this release.
Peer Map	
Session-Delete-Delay Timer	Indicates whether there is a delay in terminating a session.
Session-Delete-Delay Timeout	Specifies the time (msecs) to retain a session before terminating it.
PLMN ID List	The Public Land Mobile Network identifier list associated with this P-GW service. A PLMN contains a Mobile Country Code (MCC) and Mobile Network Code (MNC). Up to five PLMN IDs can be configured for each P-GW service.
Newcall Policy	The newcall policy configured for this P-GW service. Specifies whether the P-GW will accept or reject requests for a static IP address if the address is already in use by another session
dns-client Context Name	The context where the DNS client is configured and used by this service.
gx-li context	Refer to the *Lawful Intercept Configuration Guide*.
gx-li transport	Refer to the *Lawful Intercept Configuration Guide*.
Internal QOS Application	The QoS application configured for use with this service.
QCI-QOS Mapping Table Name	The QoS Class Index to QoS mapping table configured for use with this service.
Authorize	Enables/disables subscriber session authorization with HSS over S6b Diameter interface.
Setup Timeout	Specifies the maximum amount of time the P-GW service allows for the setting up of PDP contexts.
Message Timestamp Drift	Specifies the drift time configuration to take care of NTP drift issues.
S6b IPv6 Reporting	Specifies if the IPv6 address reporting through AAR towards the S6b interface is enabled or disabled.
Retain MDN	Enables MDN/MSISDN value to be retained as negotiated during the call setup (retrieved from S6b interface or Create Session Request).
Duplicate Subscriber Addr Request	Specifies whether the P-GW will accept or reject requests for a static IP address if the address is already in use by another session.
Duplicate Subscriber Addr Request IPv6	Specifies whether the P-GW will accept or reject requests for an IPv6 IP address if the address is already in use by another session.
Qos Negotiation Profile Rel8 for Gy interface	

Field	Description
DCNR	Enables 5G New radio Functionality for subscriber session in the PGW service.
Fqdn-name	The name ofFully Qualified Domain Name (FQDN) which is used for authorization over S6b interface between P-GW and 3GPP AAA/HSS.
SAEGW service	Specifies whether P-GW service is part of SAEGW service.
EGTP Overcharging Protection	
EGTP Cause Code Handling	Specifies whether eGTP cause handling has been enabled for this P-GW service
Temp Failure	Specifies whether eGTP cause handling for temporary failure (cause code 110) has been enabled for this P-GW service.
Retry Timeout	Specifies the time to wait (in seconds) before reattempting Create Bearer Request (CBR)/Modify Bearer Request (MBR)/Update Bearer Request (UBR) when the P-GW receives a temporary failure response from a peer.
Maximum Retry	Specifies the maximum number of retries to attempt. The P-GW discards CBR/MBR/UBR after the maximum number of retries are exceeded.
EGTP SGW Restoration Handling	Specifies if the eGTP S-GW restoration handling is enabled or not.
Session Hold Timer	Displays if the session Hold Timer is valid or not.
Timeout	Displays the Configured Session Hold Timer timeout value in seconds.
EGTP Modify bearer cmd negotiate qos	Displays the configuration of the egtp modify-bearer-cmd-negotiate-qos command, either Enabled (P-GW accepts new QoSvalue from modify bearer command while PCRF is unreachable; or Disabled (Default, P-GW ignores the new QoS value in the modify bearer command and uses stored QoS value from PCRF).
EGTP GnGp Modify bearer res with APN-AMBR	
EGTP Modify bearer res with CHARGING-ID	Indicates whether Modify Bearer Response message with Charging-ID is enabled or disabled.
EGTP Modify bearer res with CHARGING-FQDN or CHARGING-GW-ADDRESS	Indicates whether Modify Bearer Response message with Charging FQDN or Charging Gateway address is enabled or disabled.
EGTP Modify bearer res with MSISDN	Indicates whether Modify Bearer Response message with MSISDN is enabled or disabled.
EGTP Modify Bearer Response with Context Not Found cause if IMEI/IMEISV mismatch	
EGTP Bit Rate in Rounded Down Kbps	Enable/Disable rounded down Kbps value of Bit Rate on GTP interface.
EGTP Suppress Update Bearer Request (no bitrate change)	Indicates if the UBR Suppression feature is enabled or disabled.

Field	Description
EGTP Create Session Response with APN-AMBR IE	
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 or disabled under P-GW services.
GTP-C Load Control Profile	Indicates the GTP-C load control profile.
GTP-C Overload Control Profile	Indicates the GTP-C overload control profile.
P-CSCF Restoration solution	Indicates the type of mechanism being used for P-CSCF failure detection. Can be either HSS-based (Private Extn) or HSS-Based MME-Triggered (Rel12).
P-CSCF Restoration supported for Emergency PDNs	Indicates whether P-CSCF Restoration is enabled for Emergency PDNs. **Note** This functionality is license dependent. For more information, contact your Cisco account representative.
Re-Auth After s6b Triggered P-CSCF Restoration	Indicates whether Re-Auth after S6b triggered P-CSCF Restoration of WLAN is enabled. **Note** This functionality is license dependent. For more information, contact your Cisco account representative.
GTP-C Cause Code Mapping (Gx Failure)	
eMPS Profile Name	Indicates the eMPS Profile name used to define attributes of an eMPS session.
GTPC Outgoing Throttling	Specifies if outgoing throttling has been enabled, which indicates the number of messages that were removed from the queue (due to any collision, or max retransmission expired).
RLF Template Name	Specifies the template name for RLF for throttling support.
Throttling override	
Throttling override Policy	Configures the Throttling Override Policy that can be used at the GGSN/P-GW nodes to selectively bypass throttling for a configured message type or for all messages in emergency call or priority call or call for the configured APN.
GTPC Incoming Throttling Params	Specifies if the incoming throttling of GTPC has been configured. It includes following parameters.
Message Rate (per sec)	Indicates the number of messages per second. Default: 20000
Delay Tolerance (secs)	Indicates the delay tolerance in seconds. Default: 5
Queue Size	Indicates the queue size. Default: 10000
S-GW Interface Excluded	Excludes the specified interface.

Field	Description
Priority message Excluded:	Indicates if the priority message is specified. The valid values are Yes and No. The default value is No.

show pgw-service statistics all

The following command output applies to release 14.0 and higher.

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

Field	Description
VPN Name	The name of the context in which the P-GW service is configured.
Subscribers Total:	
Active	The total number of active subscribers.
Total S6b Assume Positive	The total number of subscribers in the assume positive state.
PDNs Total:	
Active	The total number of active PDN sessions.
Setup	The total number of setup PDN sessions.
Released	The total number of released PDN sessions.
Rejected	The total number of rejected PDN sessions.
PDNs By PDN-Type:	
IPv4 PDNs:	
Active	The total number of active PDN sessions using IPv4.
Setup	The total number of setup PDN sessions using IPv4.
Released	The total number of released PDN sessions using IPv4.
IPv6 PDNs:	
Active	The total number of active PDN sessions using IPv6.
Setup	The total number of setup PDN sessions using IPv6.
Released	The total number of released PDN sessions using IPv6.
IPv4v6 PDNs:	
Active	The total number of active PDN sessions using IPv4v6.
Setup	The total number of setup PDN sessions using IPv4v6.

Field	Description
Released	The total number of released PDN sessions using IPv4v6.
DCNR Secondary RAT Data PDN Statistics	
Active	The total number of currently active P-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 / P-GW, 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 P-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 P-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
PDNs By PLMN-Type:	
Home Subscriber PDNs:	
Active	Subscriber PLMN Statistics - Home subscribers sessions active
Setup	Subscriber PLMN Statistics - Home subscribers sessions setup

Field	Description
Released	Subscriber PLMN Statistics - Home subscribers sessions released
Visiting Subscriber PDNs:	
Active	Subscriber PLMN Statistics - Visiting subscribers sessions active
Setup	Subscriber PLMN Statistics - Visiting subscribers sessions setup
Released	Subscriber PLMN Statistics - Visiting subscribers sessions released
Roaming Subscriber PDNs:	
Active	Subscriber PLMN Statistics - Roaming subscribers sessions active
Setup	Subscriber PLMN Statistics - Roaming subscribers sessions setup
Released	Subscriber PLMN Statistics - Roaming subscribers sessions released
PDNs By Emergency-Type:	
Emergency PDNs:	
Active	Total Active Emergency PDNs
Authentic IMSI	Total Active Emergency PDNs (Auth-IMSI)
Un-Authentic IMSI	Total Active Emergency PDNs (Unauth-IMSI)
Only IMEI	Total Active Emergency PDNs (Only IMEI)
Setup	Total Emergency PDNs setup
Authentic IMSI	Total Emergency PDNs (Auth-IMSI) setup
Un-Authentic IMSI	Total Emergency PDNs (Unauth-IMSI) setup
Only IMEI	Total Emergency PDNs (Only IMEI) setup
Rejected	Total Emergency PDNs rejected
Non-Emergency PDNs:	
Active	The total number of active non-emergency PDNs.
Setup	The total number of setup non-emergency PDNs.
PDNs Rejected By Reason:	
No Resource	The total number of PDNs rejected - No Resource.
Missing or unknown APN	The total number of PDNs rejected - Missing or unknown APN.
APN sel-Mode mismatch	The total number of PDNs rejected - APN selection-mode mismatch.
PDN-Type not supported	The total number of PDNs rejected - Preferred PDN-Type not supported.

Field	Description
APN restr violation	The total number of PDNs rejected - APN restriction violation .
Subs auth failed	The total number of PDNs rejected - Subscriber authentication failed.
static addr not allow	The total number of PDNs rejected - Subscriber static address not allowed.
static addr not alloc	The total number of PDNs rejected - Subscriber static address not allocated.
Dynamic addr not alloc	The total number of PDNs rejected - Dynamic address not allocated.
static addr not present	The total number of PDNs rejected - Subscriber static address not present.
Invalid QCI Value	The total number of PDNs rejected - Due to the receipt of invalid QoS Class Identifiers (QCIs).
Apn-Denied No Subscription	The total number of subscriber sessions disconnected due to denial of APN as requested APN was not subscribed to subscriber.
System Failure	The total number of PDNs to ease debugging.
PDNs Released By Reason:	
Network initiated release	The total number of PDNs released due to a network-initiated release.
Admin disconnect	The total number of PDNs released due to an administrative disconnect.
GTP-U error ind	The total number of PDNs released due to a GTP-U error indication.
SGW path failure	The total number of PDNs released due to an S-GW path failure.
Local fallback timeout	The total number of PDNs released due to the local policy timeout when Gx is not reachable.
UE P-CSCF Reselect not supported	The total number of UEs released due to P-CSCF Re-selection not being supported.
MME initiated release	The total number of PDNs released due to an MME initiated release.
S4 SGSN initiated release	The total number of PDNs released due to an S4 SGSN initiated release
Bearers Total:	
Active	The total number of active bearers.
Setup	The total number of bearers setup.
Released	The total number of number of bearers released.
Rejected	The total number of rejected bearers.
Bearers By Emergency-Type:	
Emergency Bearers:	
Active	The total number of Active Emergency bearers.

Field	Description
Authentic IMSI	The total number of Active Emergency bearers (Authentic-IMSI).
Un-Authentic IMSI	The total number of Active Emergency bearers (Unauthentic-IMSI).
Only IMEI	The total number of Active Emergency bearers (Only IMEI).
Setup	The total number of Emergency bearers setup.
Authentic IMSI	The total number of Emergency bearers (Authentic-IMSI) setup.
Un-Authentic IMSI	The total number of Emergency bearers (Unauthentic-IMSI) setup.
Only IMEI	The total number of Emergency bearers (Only IMEI) setup.
Rejected	The total number of Emergency bearers rejected.
Non-Emergency Bearers:	
Active	The total number of Active Non-Emergency bearers
Setup	The total number of Setup Non-Emergency bearers
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.
Bearers by QoS characteristics	
Active: QCI n	The total number of active bearers for QCI n. Where n is a QCI value of 1 through 9 or a QCI value of 65, 66, 69, or 70.
Non-Std QCI (Non-GBR)	The total number of active non-standard non-GBR bearers.
Non-Std QCI (GBR)	The total number of active non-standard GBR bearers
Setup: QCI n	The total number of bearers setup for QCI n. Where n is a QCI value of 1 through 9 or a QCI value of 65, 66, 69, or 70.
Non-Std QCI (Non-GBR)	The total number of non-standard non-GBR bearers setup.
Non-Std QCI (GBR)	The total number of non-standard GBR bearers setup.

Field	Description
Released: QCI n	The total number of released bearers for QCI n. Where n is a QCI value of 1 through 9 or a QCI value of 65, 66, 69, or 70.
Dedicated Bearers By Type:	
UE-initiated:	
Active	Total bearers active - UE-initiated
Setup	Total bearers setup - UE-initiated
Network-initiated:	
Active	Total bearers active - Network-initiated
Setup	Total bearers setup - Network-initiated
Bearer Modifications:	
UE-initiated:	
QoS Modifications	Total bearers modified - UE-initiated Quality of Service (QoS)modification
TFT Modifications	Total bearers modified - UE-initiated Traffic Flow Template modification
Network-initiated:	
QoS Modifications	Total bearers modified - Network-initiated Quality of Service modification
TFT Modifications	Total bearers modified - Network-initiated Traffic Flow Template modification
Failures:	
UE-initiated-mod-fail:	Total bearers modification failure - UE-initiated modification failed
QOS changed	Total bearer modification failures - UE-initiated Quality of Service
No res available	Total bearer modification failures - UE-initiated Quality of Service - No resource available
Semantic err in TFT	Total bearers modification failures - UE-initiated Quality of Service - Semantic error in Traffic Flow Template operation
Syntact err in TFT	Total bearer modification failures - UE-initiated Quality of Service - Syntax error in Traffic Flow Template operation
Semantic err in fltr	Total bearer modification failures - UE-initiated Quality of Service - Semantic error in packet filter
Syntact err in fltr	Total bearer modification failures - UE-initiated Quality of Service - syntax error in packet filter

Field	Description
No memory available	Total bearer modification failures - UE-initiated Quality of Service - No resource available
System failure	Total bearers modification failure - UE-initiated Quality of Service - System failure
No QOS changed	Total bearer modification failures - UE-initiated
No res available	Total bearer modification failures - UE-initiated - No resource available
Semantic err in TFT	Total bearers modification failures - UE-initiated - Semantic error in Traffic Flow Template operation
Syntact err in TFT	Total bearer modification failures - UE-initiated - Syntax error in Traffic Flow Template operation
Semantic err in fltr	Total bearer modification failures - UE-initiated - Semantic error in packet filter
Syntact err in fltr	Total bearer modification failures - UE-initiated - syntax error in packet filter
No memory available	Total bearer modification failures - UE-initiated - No resource available
System failure	Total bearers modification failure - UE-initiated - System failure
NW-initiated-mod-fail:	Total bearers modification failure - Network-initiated modification failed
QOS changed	Total bearer modification failures - Network-initiated Quality of Service
No res available	Total bearers modification failure - Network-initiated Quality of Service - No resource available
Semantic err in TFT	Total bearers modification failure - Network-initiated Quality of Service - Semantic error in Traffic Flow Template operation
Syntact err in TFT	Total bearers modification failure - Network-initiated Quality of Service - syntax error in Traffic Flow Template operation
Semantic err in fltr	Total bearers modification failure - Network-initiated Quality of Service - Semantic error in packet filter
Syntact err in fltr	Total bearers modification failure - Network-initiated Quality of Service - syntax error in packet filter
No memory available	Total bearers modification failure - Network-initiated Quality of Service - No memory available
System failure	Total bearers modification failure - Network-initiated Quality of Service - System failure
No QOS changed	Total bearer modification failures - Network-initiated
No res available	Total bearers modification failure - Network-initiated - No resource available
Semantic err in TFT	Total bearers modification failure - Network-initiated - Semantic error in Traffic Flow Template operation

Field	Description
Syntact err in TFT	Total bearers modification failure - Network-initiated - syntax error in Traffic Flow Template operation
Semantic err in fltr	Total bearers modification failure - Network-initiated - Semantic error in packet filter
Syntact err in fltr	Total bearers modification failure - Network-initiated - syntax error in packet filter
No memory available	Total bearers modification failure - Network-initiated - No memory available
System failure	Total bearers modification failure - Network-initiated - System failure
Dedicated Bearers Rejected By Reason:	
UE-initiated Bearer Rejects	Total dedicated bearers rejected - UE-initiated
No resource	Total dedicated bearers rejected - UE-initiated - No resource
NW-initiated Bearer Rejects	Total dedicated bearers rejected - Network-initiated
No resource	Total dedicated bearers rejected - Network-initiated - No resource
No mem available	Total dedicated bearers rejected - Network-initiated - No memory available
System failure	Total dedicated bearers rejected - Network-initiated - System failure
Dedicated Bearers Released By Reason:	
Network initiated release	Total dedicated bearers released - Network-initiated
Admin disconnect	Total dedicated bearers released - Network-initiated - Admindisconnect
GTP-U error ind	Total dedicated bearers released - Network-initiated - GTP-Uerror
MME initiated release	Total dedicated bearers released - Network-initiated - MME initiated release
Default Bearer release	Total dedicated bearers released - Network-initiated - Default bearer release
IP Address Allocation Statistics:	
Total IPv4 addrs allocated	Total IPv4 addresses allocated
Local pool assignment	Total IPv4 addresses allocated - Local pool address assignment
Static addr assignment	Total IPv4 addresses allocated - Static address assignment
Radius provided assignment	Total IPv4 addresses allocated - RADIUS provided address assignment
Total IPv6 addrs allocated	Total IPv6 addresses allocated
Stateless auto config	Total IPv6 address allocated - Stateless auto config
Local pool assignment	Total IPv6 addresses allocated - Local pool address assignment
Static addr assignment	Total IPv6 addresses allocated - Static address assignment

Field	Description
Radius provided assignment	Total IPv6 addresses allocated - RADIUS provided address assignment
SGi tunneling statistics:	
Total IPv4 tunnel sessions:	
IP-in-IP Tunnels:	
Active	SGi tunneling Statistics - IPv4 IP-in-IP tunnel sessions active
Setup	SGi tunneling Statistics - IPv4 IP-in-IP tunnel sessions setup
Released	SGi tunneling Statistics - IPv4 IP-in-IP tunnel sessions released
GRE Tunnels:	
Active	SGi tunneling Statistics - IPv4 GRE tunnel sessions active
Setup	SGi tunneling Statistics - IPv4 GRE tunnel sessions setup
Released	SGi tunneling Statistics - IPv4 GRE tunnel sessions released
Total IPv6 tunneled sessions:	
6to4 Tunnels:	
Active	SGi tunneling Statistics - IPv6 6to4 tunnel sessions active
Setup	SGi tunneling Statistics - IPv6 6to4 tunnel sessions setup
Released	SGi tunneling Statistics - IPv6 6to4 tunnel sessions released
Handover Statistics:	
Intra Technology handover:	
Inter SGSN handover:	
Attempted	Total number of inter-SGSN handover attempts
Succeeded	Total number of successful inter-SGSN handovers
Failed	Total number of failed inter-SGSN handovers
Inter SGW handover:	
Attempted	Total number of inter-SGW handover attempts
Succeeded	Total number of successful inter-SGW handovers
Failed	Total number of failed inter-SGW handovers
Inter HSGW handover:	
Attempted	Total number of inter-HSGW handover attempts

Field	Description
Succeeded	Total number of successful inter-HSGW handovers
Failed	Total number of failed inter-HSGW handovers
Inter Technology handover:	
GNGP-to-LTE handover:	
Attempted	Total number of Gn/Gp to LTE attempted handovers
Succeeded	Total number of Gn/Gp to LTE successful handovers
Failed	Total number of Gn/Gp to LTE failed handovers
LTE-to-GNGP handover:	
Attempted	Total number of LTE to Gn/Gp attempted handovers
Succeeded	Total number of LTE to Gn/Gp successful handovers
Failed	Total number of LTE to Gn/Gp failed handovers
LTE-to-eHRPD handover:	
Attempted	Total number of LTE to eHPRD attempted handovers
Succeeded	Total number of LTE to eHPRD successful handovers
Failed	Total number of LTE to eHRPD failed handovers
eHRPD-to-LTE handover:	
Attempted	Total number of eHPRD to LTE attempted handovers
Succeeded	Total number of eHPRD to LTE successful handovers
Failed	Total number of eHPRD to LTE failed handovers
LTE-to-S2bPMIP handover:	
Attempted	Total number of LTE to S2bPMIP attempted handovers
Succeeded	Total number of LTE to S2bPMIP successful handovers
Failed	Total number of LTE to S2bPMIP failed handovers
S2bPMIP-to-LTE handover:	
Attempted	Total number of S2bPMIP to LTE attempted handovers
Succeeded	Total number of S2bPMIP to LTE successful handovers
Failed	Total number of S2bPMIP to LTE failed handovers
eHRPD-to-S2bPMIP handover:	

Field	Description
Attempted	Total number of eHPRD to S2bPMIP attempted handovers
Succeeded	Total number of eHPRD to S2bPMIP successful handovers
Failed	Total number of eHPRD to S2bPMIP failed handovers
S2bPMIP-to-eHRPD handover:	
Attempted	Total number of S2bPMIP to eHPRD attempted handovers
Succeeded	Total number of S2bPMIP to eHPRD successful handovers
Failed	Total number of S2bPMIP to eHPRD failed handovers
S2bGTP-to-LTE handover:	
Attempted	Total number of S2bGTP to LTE attempted handovers
Succeeded	Total number of S2bGTP to LTE successful handovers
Failed	Total number of S2bGTP to LTE failed handovers
LTE-to-S2bGTP handover:	
Attempted	Total number of LTE to S2bGTP attempted handovers
Succeeded	Total number of LTE to S2bGTP successful handovers
Failed	Total number of LTE to S2bGTP failed handovers
S2bGTP-to-EHRPD handover:	
Attempted	Total number of S2bGTP to eHPRD attempted handovers
Succeeded	Total number of S2bGTP to eHPRD successful handovers
Failed	Total number of S2bGTP to eHPRD failed handovers
EHRPD-to-S2bGTP handover:	
Attempted	Total number of eHPRD to S2bGTP attempted handovers
Succeeded	Total number of eHPRD to S2bGTP successful handovers
Failed	Total number of eHPRD to S2bGTP failed handovers
GNGP-to-S4SGSN handover:	
Attempted	Total number of GNGP-to-S4SGSN attempted handovers
Succeeded	Total number of GNGP-to-S4SGSN successful handovers
Failed	Total number of GNGP-to-S4SGSN failed handovers
S4SGSN-to-GNGP handover:	

Field	Description
Attempted	Total number of S4SGSN-to-GNGP attempted handovers
Succeeded	Total number of S4SGSN-to-GNGP successful handovers
Failed	Total number of S4SGSN-to-GNGP failed handovers
S4SGSN-to-LTE handover:	
Attempted	Total number of S4SGSN-to-LTE attempted handovers
Succeeded	Total number of S4SGSN-to-LTE successful handovers
Failed	Total number of S4SGSN-to-LTE failed handovers
LTE-to-S4SGSN handover:	
Attempted	Total number of LTE-to-S4SGSN attempted handovers
Succeeded	Total number of LTE-to-S4SGSN successful handovers
Failed	Total number of LTE-to-S4SGSN failed handovers
P-CSCF Restoration Indications received:	The total number of P-CSCF Restoration indications received (HSS Triggered and PCRF Triggered) at service level. The total number of triggers received on any interface (MME/PCRF/S6b) = Basic + Extended + Ignored (ignored for reasons such as restoration already in progress, license not present, validation check fails, or call not connected).
HSS Triggered Restoration:	
MME Triggered Restoration	Tracks the number of occurrences of P-CSCF Restoration Required Indications received from the MME/S-GW through a modify bearer request.
Basic Restoration Performed	The total number of basic P-CSCF Restorations performed for restoration indications received from the MME/S-GW.
Extension Restoration Performed	The total number of extended P-CSCF Restorations performed for restoration indications received from the MME/S-GW.
S6b Triggered Restoration	The total number of P-CSCF Restoration Required Indications received from the s6b AAA server through a RAR for a WLAN.
Basic Restoration Performed	The total number of basic P-CSCF Restorations performed for restoration indications received from an s6b AAA server through a RAR for a WLAN.
Extension Restoration Performed	The total number of extended P-CSCF Restorations performed for restoration indications received from an s6b AAA server through a RAR for a WLAN.
PCRF Triggered Restoration:	The total number of P-CSCF Restoration Required Indications received from the PCRF through RAR.
Basic Restoration Performed	The total number of basic P-CSCF Restorations performed for restoration indications received from PCRF through a RAR.

Field	Description
Extension Restoration Performed	The total number of extended P-CSCF Restorations performed for restoration indications received from a PCRF through a RAR.
Data Statistics Per Interface:	
S5U/S8U/S2bU/Gn/Gp Total Data Statistics:	
Uplink:	
Total Pkts	The total number of uplink packets forwarded.
Std QCI (Non-GBR)	The total number of uplink packets forwarded with a standard QoS Class Index (non-GBR).
Std QCI (GBR)	The total number of uplink packets forwarded with a standard QoS Class Index.
Non-Std QCI (Non-GBR)	The total number of uplink packets forwarded with a non-standard QoS Class Index (non-GBR).
Non-Std QCI (GBR)	The total number of uplink packets forwarded with a non-standard QoS Class Index (GBR).
Total Bytes	The total number of uplink bytes forwarded.
Std QCI (Non-GBR)	The total number of uplink bytes forwarded with a standard QoS Class Index (non-GBR).
Std QCI (GBR)	The total number of uplink bytes forwarded with a standard QoS Class Index.
Non-Std QCI (Non-GBR)	The total number of uplink bytes forwarded with a non-standard QoS Class Index (non-GBR).
Non-Std QCI (GBR)	The total number of uplink bytes forwarded with a non-standard QoS Class Index (GBR).
Total Dropped Pkts	The total number of uplink packets dropped.
Std QCI (Non-GBR)	The total number of uplink packets dropped with a standard QoS Class Index (non-GBR).
Std QCI (GBR)	The total number of uplink packets dropped with a standard QoS Class Index.
Non-Std QCI (Non-GBR)	The total number of uplink packets dropped with a non-standard QoS Class Index (non-GBR).
Non-Std QCI (GBR)	The total number of uplink packets dropped with a non-standard QoS Class Index (GBR).
Total Dropped Bytes	The total number of uplink bytes dropped.
Std QCI (Non-GBR)	The total number of uplink bytes dropped with a standard QoS Class Index (non-GBR).

Field	Description
Std QCI (GBR)	The total number of uplink bytes dropped with a standard QoS Class Index.
Non-Std QCI (Non-GBR)	The total number of uplink bytes dropped with a non-standard QoS Class Index (non-GBR).
Non-Std QCI (GBR)	The total number of uplink bytes dropped with a non-standard QoS Class Index (GBR).
Dropped Pkts MBR Excd	The total number of uplink packets dropped due to MBR exceeded.
Std QCI (Non-GBR)	The total number of uplink packets dropped with a standard QoS Class Index (non-GBR) due to MBR exceeded.
Std QCI (GBR)	The total number of uplink packets dropped with a standard QoS Class Index due to MBR exceeded.
Non-Std QCI (Non-GBR)	The total number of uplink packets dropped with a non-standard QoS Class Index (non-GBR) due to MBR exceeded.
Non-Std QCI (GBR)	The total number of uplink packets dropped with a non-standard QoS Class Index (GBR) due to MBR exceeded.
Dropped Bytes MBR Excd	The total number of uplink bytes dropped due to MBR exceeded.
Std QCI (Non-GBR)	The total number of uplink bytes dropped with a standard QoS Class Index (non-GBR) due to MBR exceeded.
Std QCI (GBR)	The total number of uplink bytes dropped with a standard QoS Class Index due to MBR exceeded.
Non-Std QCI (Non-GBR)	The total number of uplink bytes dropped with a non-standard QoS Class Index (non-GBR) due to MBR exceeded.
Non-Std QCI (GBR)	The total number of uplink bytes dropped with a non-standard QoS Class Index (GBR) due to MBR exceeded.
Drops Due To APN AMBR Rate Limit	
Packets	The total number of uplink packets dropped due to APN AMBR rate limit.
Bytes	The total number of uplink bytes dropped due to APN AMBR rate limit.
Downlink:	
Total Pkts	The total number of downlink packets forwarded.
Std QCI (Non-GBR)	The total number of downlink packets forwarded with a standard QoS Class Index (non-GBR).
Std QCI (GBR)	The total number of downlink packets forwarded with a standard QoS Class Index.
Non-Std QCI (Non-GBR)	The total number of downlink packets forwarded with a non-standard QoS Class Index (non-GBR).

Field	Description
Non-Std QCI (GBR)	The total number of downlink packets forwarded with a non-standard QoS Class Index (GBR).
Total Bytes	The total number of downlink bytes forwarded.
Std QCI (Non-GBR)	The total number of downlink bytes forwarded with a standard QoS Class Index (non-GBR).
Std QCI (GBR)	The total number of downlink bytes forwarded with a standard QoS Class Index.
Non-Std QCI (Non-GBR)	The total number of downlink bytes forwarded with a non-standard QoS Class Index (non-GBR).
Non-Std QCI (GBR)	The total number of downlink bytes forwarded with a non-standard QoS Class Index (GBR).
Total Dropped Pkts	The total number of downlink packets dropped.
Std QCI (Non-GBR)	The total number of downlink packets dropped with a standard QoS Class Index (non-GBR).
Std QCI (GBR)	The total number of downlink packets dropped with a standard QoS Class Index.
Non-Std QCI (Non-GBR)	The total number of downlink packets dropped with a non-standard QoS Class Index (non-GBR).
Non-Std QCI (GBR)	The total number of downlink packets dropped with a non-standard QoS Class Index (GBR).
Total Dropped Bytes	The total number of downlink bytes dropped.
Std QCI (Non-GBR)	The total number of downlink bytes dropped with a standard QoS Class Index (non-GBR).
Std QCI (GBR)	The total number of downlink bytes dropped with a standard QoS Class Index.
Non-Std QCI (Non-GBR)	The total number of downlink bytes dropped with a non-standard QoS Class Index (non-GBR).
Non-Std QCI (GBR)	The total number of downlink bytes dropped with a non-standard QoS Class Index (GBR).
Dropped Pkts MBR Excd	The total number of downlink packets dropped due to MBR exceeded.
Std QCI (Non-GBR)	The total number of downlink packets dropped with a standard QoS Class Index (non-GBR) due to MBR exceeded.
Std QCI (GBR)	The total number of downlink packets dropped with a standard QoS Class Index due to MBR exceeded.

Field	Description
Non-Std QCI (Non-GBR)	The total number of downlink packets dropped with a non-standard QoS Class Index (non-GBR) due to MBR exceeded.
Non-Std QCI (GBR)	The total number of downlink packets dropped with a non-standard QoS Class Index (GBR) due to MBR exceeded.
Dropped Bytes MBR Excd	The total number of downlink bytes dropped due to MBR exceeded.
Std QCI (Non-GBR)	The total number of downlink bytes dropped with a standard QoS Class Index (non-GBR) due to MBR exceeded.
Std QCI (GBR)	The total number of downlink bytes dropped with a standard QoS Class Index due to MBR exceeded.
Non-Std QCI (Non-GBR)	The total number of downlink bytes dropped with a non-standard QoS Class Index (non-GBR) due to MBR exceeded.
Non-Std QCI (GBR)	The total number of downlink bytes dropped with a non-standard QoS Class Index (GBR) due to MBR exceeded.
Drops Due To APN AMBR Rate Limit	
Packets	The total number of downlink packets dropped due to APN AMBR rate limit.
Bytes	The total number of downlink bytes dropped due to APN AMBR rate limit.
Data Statistics Per PDN-Type:	
IPv4 PDNs:	
Uplink:	
Total Pkts	The total number of IPv4 PDN uplink packets (from user).
Total Bytes	The total number of IPv4 PDN uplink bytes (from user).
Downlink:	
Total Pkts	The total number of IPv4 PDN downlink packets (to user).
Total Bytes	The total number of IPv4 PDN downlink bytes (to user).
IPv6 PDN Data Statistics:	
Uplink:	
Total Pkts	The total number of IPv6 PDN uplink packets (from user).
Total Bytes	The total number of IPv6 PDN uplink bytes (from user).
Downlink:	
Total Pkts	The total number of IPv6 PDN downlink packets (to user).

Field	Description
Total Bytes	The total number of IPv6 PDN downlink bytes (to user).
IPv4v6 PDN Data Statistics:	
Uplink:	
Total Pkts v4	The total number of IPv4 PDN uplink packets (from user).
Total Bytes v4	The total number of IPv4 PDN uplink bytes (from user).
Total Pkts v6	The total number of IPv6 PDN uplink packets (from user).
Total Bytes v6	The total number of IPv6 PDN uplink bytes (from user).
Downlink:	
Total Pkts v4	The total number of IPv4 PDN downlink packets (to user).
Total Bytes v4	The total number of IPv4 PDN downlink bytes (to user).
Total Pkts v6	The total number of IPv6 PDN downlink packets (to user).
Total Bytes v6	The total number of IPv6 PDN downlink bytes (to user).
Packets: QCI n	The total number of uplink packets transmitted for QCI n. Where n is a QCI value of 1 through 9, or a QCI value of 65, 66, 69, or 70.
Non-Std QCI	The total number of non-standard QCI uplink packets transmitted.
Packets: QCI n	The total number of downlink packets transmitted for QCI n. Where n is a QCI value of 1 through 9, or a QCI value of 65, 66, 69, or 70.
Non-Std QCI	The total number of non-standard QCI downlink packets transmitted.
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.
Dedicated Bearer Released due to Idle-Inactivity timeout:	
Std QCI (Non-GBR)	The number of dedicated non-Guaranteed bit rate (non-GBR) bearers with a standard QCI value that were released due to an idle-inactivity timeout.

Field	Description
Non-Std QCI (Non-GBR)	The number of dedicated non-Guaranteed bit rate (non-GBR) bearers with a non-standard QCI value that were released due to an idle-inactivity timeout.
Std QCI (GBR)	The number of dedicated Guaranteed Bit Rate (GBR) bearers with a standard QCI value that were released due to an idle-inactivity timeout.
Non-std QCI (GBR)	The number of dedicated Guaranteed Bit Rate (GBR) bearers with a non-standard QCI value that were released due to an idle-inactivity timeout.
PDNs by RAT-Type:	
EUTRAN	The total number of EUTRAN PDNs by RAT-Type.
UTRAN	The total number of UTRANs PDNs by RAT-Type.
GERAN	The total number of GERANs PDNs by RAT-Type.
WLAN	The total number of WLANs PDNs by RAT-Type.
Other	The total number of Others PDNs by RAT-Type.
SGW Restoration Statistics:	
PDNs Total:	
In Restoration State:	
Recovered	The total number of PDN session recovered during SGW Restoration.
Released	The total number of PDN sessions released during SGW Restoration.
Drops during SGW Restoration:	
Packets	The total number of packets dropped during SGW Restoration.
Bytes	The total number of bytes dropped uring SGW Restoration.
P-CSCF Restoration Indications received: (Count at Service Level)	
Data Statistics Per Interface	Total number of occurrences of P-CSCF Restoration Required Indications received from the MME/S-GW through a modify bearer request
S2bGTP-to-eHRPD handover:	
Attempted	Total number of S2bGTP-to-eHRPD handover attempts
Succeeded	Total number of successful S2bGTP-to-eHRPD handovers
Failed	Total number of failed S2bGTP-to-eHRPD handovers
eHRPD-to-S2bGTP handover:	
Attempted	Total number of eHRPD-to-S2bGTP handover attempts
Succeeded	Total number of successful eHRPD-to-S2bGTP handovers

Field	Description
Failed	Total number of failed eHRPD-to-S2bGTP handovers

The following command output applies to releases prior to 14.0.

Table 4: show pgw-service statistics all Command Output Descriptions 0

Field	Description
PGW Node Level Statistics	
VPN Name	The name of the context in which the P-GW service is configured.
Total Active UE	The total number of active subscribers.
Total bearers active	
Default bearers	The total number of active default bearers using the P-GW node.
Non-Emergency	The total number of active default non-emergency bearers using the P-GW node.
Emergency	The total number of active default emergency bearers using the P-GW node.
Dedicated bearers	The total number of active dedicated bearers using the P-GW node.
UE-initiated	The total number of active UE-initiated dedicated bearers using the P-GW node.
Network-initiated	The total number of active network-initiated dedicated bearers using the P-GW node.
Non-Emergency	The total number of active non-emergency dedicated bearers using the P-GW node.
Emergency	The total number of active emergency dedicated bearers using the P-GW node.
Emergency bearers (Auth-IMSI)	The total number of authorized Imternational Mobile Subscriber Identity (IMSI) emergency bearers active using the P-GW node.
Emergency bearers (Unauth-IMSI)	The total number of unauthorized Imternational Mobile Subscriber Identity (IMSI) emergency bearers active using the P-GW node.
Emergency bearers (Only IMEI)	The total number of Imternational Mobile Equipment Identity (IMEI) emergency bearers active using the P-GW node.
Total bearers setup	
Default bearers	The total number of default bearers set up using the P-GW node.
Non-Emergency	The total number of default non-emergency bearers set up using the P-GW node.
Emergency	The total number of default emergency bearers set up using the P-GW node.
Dedicated bearers	The total number of dedicated bearers set up using the P-GW node.
UE-initiated	The total number of UE-initiated dedicated bearers set up using the P-GW node.
Network-initiated	The total number of network-initiated dedicated bearers set up using the P-GW node.

Field	Description
Non-Emergency	The total number of non-emergency dedicated bearers set up using the P-GW node.
Emergency	The total number of emergency dedicated bearers set up using the P-GW node.
Total bearers released	
Default bearers	The total number of default bearers released using the P-GW node.
Network init release	The total number of default bearers released due to an network-initiated release using the P-GW node.
MME init release	The total number of default bearers released due to an MME-initiated release using the P-GW node.
Dedicated bearers	The total number of dedicated bearers released using the P-GW node.
Network initiated release	The total number of dedicated bearers released due to an network-initiated release using the P-GW node.
S4 SGSN initiated release	The total number of dedicated bearers released due to an S4-SGSN-initiated release using the P-GW node.
MME initiated release	The total number of dedicated bearers released due to an MME-initiated release using the P-GW node.
Default bearer release	The total number of dedicated bearers released due to a default bearer release using the P-GW node.
Total bearers release failure	
Default bearers	The total number of default bearer release failures using the P-GW node.
Dedicated bearers	The total number of dedicated bearer release failures using the P-GW node.
Total bearers rejected	
Default bearers	The total number of default bearers rejected using the P-GW node.
Dedicated bearers	The total number of dedicated bearers rejected using the P-GW node.
UE-req reject	The total number of UE-requested bearers rejected using the P-GW node.
Network-req reject	The total number of network-requested bearers rejected using the P-GW node.
Total Emergency default bearer rejected	The total number of emergency default bearer rejected using the P-GW node.
Total Emergency dedicated bearers rejected	The total number of emergency dedicated bearer rejected using the P-GW node.
Total bearers modified	
UE-initiated mod	The total number of UE-initiated bearers modified using the P-GW node.
Network-initiated mod	The total number of network-initiated bearers modified using the P-GW node.

Field	Description
Total bearers modification failure	
UE-initiated mod fail	The total number of UE-initiated bearer modification failures using the P-GW node.
Network-initiated mod fail	The total number of network-initiated bearer modification failures using the P-GW node.
Subscriber session statistics	
Total bearers active	
Default bearers	The total number of active default bearers using the P-GW service(s) on this system.
Dedicated bearers	The total number of active dedicated bearers using the P-GW service(s) on this system. This counter increments for both network and UE-initiated dedicated bearers.
Total bearers setup	
Default bearers	The total number of default bearers setup using the P-GW service(s) on this system.
Dedicated bearers	The total number of dedicated bearers setup using the P-GW service(s) on this system. This counter increments for both network and UE-initiated dedicated bearer setup.
Total bearers released	
Default bearers	The total number of default bearers released using the P-GW service(s) on this system.
Network initiated release	
Admin disconnect	The total number of default bearers released due to an administrative disconnect using the P-GW service(s) on this system.
GTP-U error ind	The total number of default bearers released due to a GTP-U error indication using the P-GW service(s) on this system.
SGW Path failure	The total number of default bearers released due to an S-GW path failure using the P-GW service(s) on this system.
MME Initiated release	The total number of default bearers released due to an MME initiated release using the P-GW service(s) on this system.
Dedicated bearers	The total number of dedicated bearers released using the P-GW service(s) on this system.
Network initiated release	
Admin disconnect	The total number of dedicated bearers released due to an administrative disconnect using the P-GW service(s) on this system.
GTP-U error ind	The total number of dedicated bearers released due to a GTP-U error indication using the P-GW service(s) on this system.
MME initiated release	The total number of dedicated bearers released due to an MME initiated release using the P-GW service(s) on this system.

Field	Description
Default bearer release	The total number of dedicated bearers released due to a default bearer release using the P-GW service(s) on this system.
Total bearers release failure	
Default bearers	The total number of default bearer release failures using the P-GW service(s) on this system.
Dedicated bearers	The total number of dedicated bearer release failures using the P-GW service(s) on this system.
Total bearers rejected:	
Default bearers	The total number of default bearers rejected using the P-GW service(s) on this system.
No Resource	The total number of default bearers rejected due to a no resource condition using the P-GW service(s) on this system.
Missing or unknown APN	The total number of default bearers rejected due to a missing or unknown APN using the P-GW service(s) on this system.
APN selection-Mode mismatch	The total number of default bearers rejected due to an APN selection mode mismatch using the P-GW service(s) on this system.
Pref PDN-Type not supported	The total number of default bearers rejected due to a preferred PDN type not supported condition using the P-GW service(s) on this system.
APN restr violation	The total number of default bearers rejected due to an APN restriction violation using the P-GW service(s) on this system.
Subs auth failed	The total number of default bearers rejected due to a subscriber authentication failure using the P-GW service(s) on this system.
Subs static addr not allowed	The total number of default bearers rejected due to a disallowed subscriber static IP address using the P-GW service(s) on this system.
Subs static addr not alloc	The total number of default bearers rejected due to an unallocated subscriber static IP address using the P-GW service(s) on this system.
Dynamic addr not alloc	The total number of default bearers rejected due to an unallocated dynamic IP address using the P-GW service(s) on this system.
Subs static addr not present	The total number of default bearers rejected due to a missing subscriber static IP address using the P-GW service(s) on this system.
Dedicated bearers	The total number of dedicated bearers rejected using the P-GW service(s) on this system.
UE-req reject	The total number of UE-requested dedicated bearers rejected using the P-GW service(s) on this system.
Network-req reject	The total number of network-requested dedicated bearers rejected using the P-GW service(s) on this system.

Field	Description
Total bearers modified	
UE-initiated modification	The total number of UE-initiated bearers modified using the P-GW service(s) on this system.
QOS modification	The total number of UE-initiated bearers with a QoS modification using the P-GW service(s) on this system.
TFT modification	The total number of UE-initiated bearers with a TFT modification using the P-GW service(s) on this system.
Network-initiated modification	The total number of network-initiated bearers modified using the P-GW service(s) on this system.
QOS modification	The total number of network-initiated bearers with a QoS modification using the P-GW service(s) on this system.
TFT modification	The total number of network-initiated bearers with a TFT modification using the P-GW service(s) on this system.
Total bearers modification failure	
UE-initiated mod failed	The total number of UE-initiated bearer modification failures using the P-GW service(s) on this system.
QOS mod fail	The total number of UE-initiated bearer modification failures due to QoS modification failures using the P-GW service(s) on this system.
Semantic err in TFT oper	The total number of UE-initiated bearer modification failures due to semantic errors in a TFT operation using the P-GW service(s) on this system.
Syntact err in TFT oper	The total number of UE-initiated bearer modification failures due to syntactic errors in a TFT operation using the P-GW service(s) on this system.
Semantic err in pkt filter	The total number of UE-initiated bearer modification failures due to semantic errors in a packet filter using the P-GW service(s) on this system.
Syntact err in pkt filter	The total number of UE-initiated bearer modification failures due to syntactic errors in a packet filter using the P-GW service(s) on this system.
Network-initiated mod failed	The total number of network-initiated bearer modification failures using the P-GW service(s) on this system.
QOS mod fail	The total number of network-initiated bearer modification failures due to QoS modification failures using the P-GW service(s) on this system.
Semantic err in TFT oper	The total number of network-initiated bearer modification failures due to semantic errors in a TFT operation using the P-GW service(s) on this system.
Syntact err in TFT oper	The total number of network-initiated bearer modification failures due to syntactic errors in a TFT operation using the P-GW service(s) on this system.

Field	Description
Semantic err in pkt filter	The total number of network-initiated bearer modification failures due to semantic errors in a packet filter using the P-GW service(s) on this system.
Syntact err in pkt filter	The total number of network-initiated bearer modification failures due to syntactic errors in a packet filter using the P-GW service(s) on this system.
Total PDN-Type stats	
PDN-Type IPv4 sessions	The total number of PDN-type IPv4 sessions using the P-GW service(s) on this system.
Active	The total number of active PDN-type IPv4 sessions using the P-GW service(s) on this system.
Setup	The total number of setup PDN-type IPv4 sessions using the P-GW service(s) on this system.
Released	The total number of released PDN-type IPv4 sessions using the P-GW service(s) on this system.
PDN-Type IPv6 sessions	The total number of PDN-type IPv6 sessions using the P-GW service(s) on this system.
Active	The total number of active PDN-type IPv6 sessions using the P-GW service(s) on this system.
Setup	The total number of setup PDN-type IPv6 sessions using the P-GW service(s) on this system.
Released	The total number of released PDN-type IPv6 sessions using the P-GW service(s) on this system.
PDN-Type IPv4v6 sessions	The total number of PDN-type IPv4v6 sessions using the P-GW service(s) on this system.
Active	The total number of active PDN-type IPv4v6 sessions using the P-GW service(s) on this system.
Setup	The total number of setup PDN-type IPv4v6 sessions using the P-GW service(s) on this system.
Released	The total number of released PDN-type IPv4v6 sessions using the P-GW service(s) on this system.
IP address allocation statistics	
Total IPv4 addrs allocated	The total number of IPv4 addresses allocated using the P-GW service(s) on this system.
Local pool add assign	The total number of local IP pool IPv4 addresses allocated using the P-GW service(s) on this system.

Field	Description
Static addr assign	The total number of static IPv4 addresses allocated using the P-GW service(s) on this system.
Radius provided addr assign	The total number of RADIUS-provided IPv4 addresses allocated using the P-GW service(s) on this system.
Total IPv6 addrs allocated	The total number of IPv6 addresses allocated using the P-GW service(s) on this system.
Stateless auto config	The total number of stateless address auto configuration IPv6 addresses allocated using the P-GW service(s) on this system.
Local pool add assign	The total number of local IP pool IPv6 addresses allocated using the P-GW service(s) on this system.
Static addr assign	The total number of static IPv6 addresses allocated using the P-GW service(s) on this system.
Radius provided addr assign	The total number of RADIUS-provided IPv6 addresses allocated using the P-GW service(s) on this system.
SGi tunneling statistics	
Total IPv4 tunnel sessions	The total number of IPv4 tunnel sessions using the P-GW service(s) SGi interface(s) on this system.
IP-in-IP tun sessn active	The total number of active IP-in-IP tunnel sessions using the P-GW service(s) SGi interface(s) on this system.
IP-in-IP tun sessions setup	The total number of setup IP-in-IP tunnel sessions using the P-GW service(s) SGi interface(s) on this system.
IP-in-IP tun sessions released	The total number of released IP-in-IP tunnel sessions using the P-GW service(s) SGi interface(s) on this system.
GRE-tun sessions active	The total number of active GRE tunnel sessions using the P-GW service(s) SGi interface(s) on this system.
GRE-tun sessions setup	The total number of setup GRE tunnel sessions using the P-GW service(s) SGi interface(s) on this system.
GRE-tun session release	The total number of released GRE tunnel sessions using the P-GW service(s) SGi interface(s) on this system.
Total IPv6 tunneled sessions	The total number of IPv6 tunnel sessions using the P-GW service(s) SGi interface(s) on this system.
6to4 tun sessions active	The total number of active IPv4-in-IPv6 tunnel sessions using the P-GW service(s) SGi interface(s) on this system.
6to4 tun session setup	The total number of setup IPv4-in-IPv6 tunnel sessions using the P-GW service(s) SGi interface(s) on this system.

Field	Description
6to4 tun sessions released	The total number of released IPv4-in-IPv6 tunnel sessions using the P-GW service(s) SGi interface(s) on this system.
Subscriber PLMN Statistics	
Home subscribers sessions	The total number of home subscriber sessions using the P-GW service(s) on this system.
Sessions active	The total number of active home subscriber sessions using the P-GW service(s) on this system.
Sessions setup	The total number of setup home subscriber sessions using the P-GW service(s) on this system.
Sessions released	The total number of released home subscriber sessions using the P-GW service(s) on this system.
Roaming subscribers sessions	The total number of roaming subscriber sessions using the P-GW service(s) on this system.
Sessions active	The total number of active roaming subscriber sessions using the P-GW service(s) on this system.
Sessions setup	The total number of setup roaming subscriber sessions using the P-GW service(s) on this system.
Sessions released	The total number of released roaming subscriber sessions using the P-GW service(s) on this system.
Visiting subscribers sessions	The total number of visiting subscriber sessions using the P-GW service(s) on this system.
Sessions active	The total number of active visiting subscriber sessions using the P-GW service(s) on this system.
Sessions setup	The total number of setup visiting subscriber sessions using the P-GW service(s) on this system.
Sessions released	The total number of released visiting subscriber sessions using the P-GW service(s) on this system.
Subscriber QoS Statistics	
Total bearers active	
QCI 1 - 9	The total number of active bearers with a QoS Class Index using the P-GW service(s) on this system.
Non-Std QCI (Non-GBR)	The total number of active bearers with a non-standard QCI (non-GBR) using the P-GW service(s) on this system.
Non-Std QCI (GBR)	The total number of active bearers with a non-standard QCI (GBR) using the P-GW service(s) on this system.

Field	Description
Total bearers setup	
QCI 1 - 9	The total number of setup bearers with a QoS Class Index using the P-GW service(s) on this system.
Non-Std QCI (Non-GBR)	The total number of setup bearers with a non-standard QCI (non-GBR) using the P-GW service(s) on this system.
Non-Std QCI (GBR)	The total number of setup bearers with a non-standard QCI (GBR) using the P-GW service(s) on this system.
Total bearers released	
QCI 1 - 9	The total number of released bearers with a QoS Class Index using the P-GW service(s) on this system.
Non-Std QCI (Non-GBR)	The total number of released bearers with a non-standard QCI (non-GBR) using the P-GW service(s) on this system.
Non-Std QCI (GBR)	The total number of released bearers with a non-standard QCI (GBR) using the P-GW service(s) on this system.
Subscriber Data Statistics	
Total Uplink packets forwarded	
QCI 1 - 9	The total number of uplink packets forwarded with a QoS Class Index using the P-GW service(s) on this system.
Non-Std QCI (Non-GBR)	The total number of uplink packets forwarded with a non-standard QCI (non-GBR) using the P-GW service(s) on this system.
Non-Std QCI (GBR)	The total number of uplink packets forwarded with a non-standard QCI (GBR) using the P-GW service(s) on this system.
Total Uplink bytes forwarded	
QCI 1 - 9	The total number of uplink bytes forwarded with a QoS Class Index using the P-GW service(s) on this system.
Non-Std QCI (Non-GBR)	The total number of uplink bytes forwarded with a non-standard QCI (non-GBR) using the P-GW service(s) on this system.
Non-Std QCI (GBR)	The total number of uplink bytes forwarded with a non-standard QCI (GBR) using the P-GW service(s) on this system.
Total Downlink packets forwarded	
QCI 1 - 9	The total number of downlink packets forwarded with a QoS Class Index using the P-GW service(s) on this system.
Non-Std QCI (Non-GBR)	The total number of downlink packets forwarded with a non-standard QCI (non-GBR) using the P-GW service(s) on this system.

Field	Description
Non-Std QCI (GBR)	The total number of downlink packets forwarded with a non-standard QCI (GBR) using the P-GW service(s) on this system.
Total Downlink bytes forwarded	
QCI 1 - 9	The total number of downlink bytes forwarded with a QoS Class Index using the P-GW service(s) on this system.
Non-Std QCI (Non-GBR)	The total number of downlink bytes forwarded with a non-standard QCI (non-GBR) using the P-GW service(s) on this system.
Non-Std QCI (GBR)	The total number of downlink bytes forwarded with a non-standard QCI (GBR) using the P-GW service(s) on this system.
Total Uplink packets dropped	
QCI 1 - 9	The total number of uplink packets dropped with a QoS Class Index using the P-GW service(s) on this system.
Non-Std QCI (Non-GBR)	The total number of uplink packets dropped with a non-standard QCI (non-GBR) using the P-GW service(s) on this system.
Non-Std QCI (GBR)	The total number of uplink packets dropped with a non-standard QCI (GBR) using the P-GW service(s) on this system.
Total Uplink bytes dropped	
QCI 1 - 9	The total number of uplink bytes dropped with a QoS Class Index using the P-GW service(s) on this system.
Non-Std QCI (Non-GBR)	The total number of uplink bytes dropped with a non-standard QCI (non-GBR) using the P-GW service(s) on this system.
Non-Std QCI (GBR)	The total number of uplink bytes dropped with a non-standard QCI (GBR) using the P-GW service(s) on this system.
Total Downlink packets dropped	
QCI 1 - 9	The total number of downlink packets dropped with a QoS Class Index using the P-GW service(s) on this system.
Non-Std QCI (Non-GBR)	The total number of downlink packets dropped with a non-standard QCI (non-GBR) using the P-GW service(s) on this system.
Non-Std QCI (GBR)	The total number of downlink packets dropped with a non-standard QCI (GBR) using the P-GW service(s) on this system.
Total Downlink bytes dropped	
QCI 1 - 9	The total number of downlink bytes dropped with a QoS Class Index using the P-GW service(s) on this system.
Non-Std QCI (Non-GBR)	The total number of downlink bytes dropped with a non-standard QCI (non-GBR) using the P-GW service(s) on this system.

Field	Description
Non-Std QCI (GBR)	The total number of downlink bytes dropped with a non-standard QCI (GBR) using the P-GW service(s) on this system.
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 release 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 release 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.
Session Discovery Req statistics	
Total IMSI+IP lookup	This sub-group displays the total number of event information attempted, successful, and failed for the defined session discovery request rule.
External-Id Present Session Statistics	
Active Sessions	The total number of active External-Id sessions using the P-GW service(s) on this system.
Total Created Sessions	The total number of created External-Id sessions using the P-GW service(s) on this system.
Released Sessions	The total number of released External-Id sessions using the P-GW service(s) on this system

show pgw-service statistics all-name

Displays statistics information for all P-GW services configured on the system.

Field	Description
Initiated PDNs By RAT-Type:	
EUTRAN	The total number of EUTRAN PDNs by RAT-Type.
UTRAN	The total number of UTRANs PDNs by RAT-Type.
GERAN	The total number of GERANs PDNs by RAT-Type.
S2A GTP	The total number of S2A GTP PDNs by RAT-Type.

Field	Description
S2B GTP	The total number of S2B GTP PDNs by RAT-Type
S2B PMIP	The total number of S2B PMIP PDNs by RAT-Type
NB-IoT	The total number of NB-IoT PDNs.
LTE-M	The total number of LTE-M initiated PDNs.
WLAN	The total number of WLANs PDNs by RAT-Type.
Other	The total number of Others PDNs by RAT-Type.
Current PDNs by RAT-Type:	
EUTRAN	The total number of active EUTRAN PDNs by RAT-Type.
UTRAN	The total number of active UTRANs PDNs by RAT-Type.
GERAN	The total number of active GERANs PDNs by RAT-Type.
WLAN	The total number of active WLAN PDNs by RAT-Type.
NB-IoT	The total number of active NB-ToT PDNs.
LTE-M	The total number of active LTE-M PDNs.
Other	The total number of Others PDNs by RAT-Type