

show gtpu-service

This chapter includes the **show gtpu-service** command output tables.

- show gtpu-service { name | all }, on page 1
- show gtpu statistics, on page 2

show gtpu-service { name | all }

Table 1: show gtpu-service all Command Output Descriptions

Field	Description
Service name	The name of the service configured in the named context.
Context	The name of the context where the service is configured.
State	The status of the service, i.e., "Initiated".
Echo Interval	The duration between the sending of GTP-U echo messages.
Sequence Number	Identifies if the sequence number is added to every GTP-U packet.
Include UDP Port Ext.Hdr	Indicates if an extension header, in the GTP-U packet header, allowing for error indication messages will be added.
Max-retransmissions	The number of user data packet request message retransmissions that can be sent before an error condition is established.
Retransmission Timeout	The number of seconds between the re-sending of GTP-U echo messages
IPSEC Tunnel Idle Timeout	The number of seconds an IPSec tunnel is idle before tunnel deletion is triggered.
Allow Error-Indication	Indicates if the error indication will be allowed or suppressed upon the receipt of a user data packet for a non-existent session.
Address List	Identifies the IP address used to transmit/receive GTP-U packets. Also indicates, if configured, the type of bearer traffic to be associated with the bind address (non-ims media only, ims-media only or all).

Field	Description
GTPU UDP Checksum	Indicates if the UDP checksum in UPD header of GTP-U packet is enabled/disabled and if it is optimized. Possible values are: • Disabled • Enabled - Attempt Optimize Default Mode • Enabled - No Optimize
Path Failure Detection on gtp echo msgs	Identifies if the path failure detection is enabled upon reaching the maximum number of echo retransmissions.
Path Failure Clear Trap	Identifies the configuration of the **path-failure clear-trap** command. **Echo** indicates that the path-failure trap will be cleared only on receipt of an echo message from the particular peer. **Non-echo** indicates that the path-failure trap will be cleared on receipt of the first control plane message for that GTPU peer allocation.
GTPU Source-port Configuration	: Use Standard Port
GTPU Source-port Offset	The offset configured for the GTPU source port.
GTPU Peer Statistics Threshold	The maximum number of GTPU peers supported. The default value is 16000.

show gtpu statistics

Table 2: Show gtpu Statistics Command Output Descriptions

Counter	Description
Session Stats	
Current	The total number of current sessions set up using GTPU service.
Current (IMS-media)	The total number of current (IMS-media) sessions set up using GTPU service
Total Setup	The total number of sessions set up using GTPU service.
Total Setup (IMS-media)	The total number of sessions set up (IMS-media) using GTPU service.
Current gtpu v0 sessions	The total number of current GTP-0 sessions.

Counter	Description
Current gtpu v1 sessions	The total number of current GTP-1 sessions.
Total Data Stats	
Uplink Packets	The total number of uplink packets.
Uplink Bytes	The total number of uplink bytes.
Downlink Packets	The total number of downlink packets.
Downlink Bytes	The total number of downlink bytes.
Packets Discarded	The total number of discarded packets.
Bytes Discarded	The total number of discarded bytes.
Uplink Packets (IMS-media)	The total number of uplink packets (IMS-media).
Uplink Bytes (IMS-media)	The total number of uplink bytes (IMS-media).
Downlink Packets (IMS-media)	The total number of downlink packets (IMS-media).
Downlink Bytes (IMS-media)	The total number of downlink bytes (IMS-media).
Packets Discarded (IMS-media)	The total number of discarded packets (IMS-media).
Bytes Discarded (IMS-media)	The total number of discarded bytes (IMS-media).
QoS Stats	
QCI <n>	
Uplink Packets	The total number of QCI <n> uplink packets.
Uplink Bytes	The total number of QCI <n> uplink bytes.
Downlink Packets	The total number of QCI <n> downlink packets.
Downlink Bytes	The total number of QCI <n> downlink bytes.
Packets Discarded	The total number of discarded QCI <n> packets.
Bytes Discarded	The total number of discarded QCI <n> bytes.
Non-Std QCI(Non-GBR)	
Uplink Packets	The total number of non-standard QCI, non-GBR uplink packets.
Uplink Bytes	The total number of non-standard QCI, non-GBR uplink bytes.
Downlink Packets	The total number of non-standard QCI, non-GBR downlink packets.

Counter	Description
Downlink Bytes	The total number of non-standard QCI, non-GBR downlink bytes.
Packets Discarded	The total number of discarded non-standard QCI, non-GBR packets.
Bytes Discarded	The total number of discarded non-standard QCI, non-GBR bytes.
Non-Std QCI(GBR)	
Uplink Packets	The total number of non-standard QCI (GBR) uplink packets.
Uplink Bytes	The total number of non-standard QCI (GBR) uplink bytes.
Downlink Packets	The total number of non-standard QCI (GBR) downlink packets.
Downlink Bytes	The total number of non-standard QCI (GBR) downlink bytes.
Packets Discarded	The total number of discarded non-standard QCI (GBR) packets.
Bytes Discarded	The total number of discarded non-standard QCI (GBR) bytes.
Total GBR QCI'S	
Total uplink packets GBR QCI's	The total number of GBR QCI (s) uplink packets.
Total uplink Bytes GBR QCI's	The total number of GBR QCI (s) uplink bytes.
Total Downlink packets GBR QCI's	The total number of GBR QCI (s) downlink packets.
Total Downlink Bytes GBR QCI's	The total number of GBR QCI (s) downlink bytes.
Total uplink packets Non-GBR QCI's	The total number of non-GBR QCI (s) uplink packets.
Total uplink Bytes Non-GBR QCI's	The total number of non-GBR QCI (s) uplink bytes.
Total Downlink packets Non-GBR QCI's	The total number of non-GBR QCI (s) downlink packets.
Total Downlink Bytes Non-GBR QCI's	The total number of non-GBR QCI (s) downlink bytes.
Path Management Messages	
Echo Request Rx	The total number of GTPU echo requests received.
Echo Response Rx	The total number of GTPU echo responses received.

Counter	Description
Echo Request Tx	The total number of GTPU echo requests transmitted.
Echo Response Tx	The total number of GTPU echo responses transmitted.
SuppExtnHdr Tx	Total GTPU messages with supported extension headers transmitted.
SuppExtnHdr Rx	Total GTPU messages with supported extension headers received.
Peer Stats	
Total GTPU Peers	Total number of GTPU Peers available in the system.
Total GTPU Peers with Stats	The total number of GTPU Peers available in the system with statistics.
Tunnel Management Messages	
Error Indication Tx	The number of Error Indication messages transmitted.
Error Indication Rx	The number of Error Indication messages received.
Error Indication Rx Discarded	The total number of error indications discarded.
Optimization Stats	
Total Packets Input	Total number of packets input.
Total Packets Optimized	Total number of packets optimized.
Total TCP Packets Input	The total number of TCP packets input.
Total TCP Packets Optimized	The total number of TCP packets optimized.
Total UDP Packets Input	The total number of UDP packets input.
Total UDP Packets Optimized	The total number of UDP packets optimized.
Total Fragments Input	The total number of fragments input.
IPSec Data Stats	
Discards Due To IPSec Tunnel Not Present	
Packets Discarded	Number of discarded IPSec Tunnel packets.
Bytes Discarded	Number of discarded IPSec Tunnel bytes.
Err-Ind Tx Discarded	Number of discarded IPSec Tunnel error Indication messages that are sent.

Note In CUPS, the "Packets Discarded" statistics will be the aggregate of packets dropped at the Session manager and packets dropped at VPP. As VPP handles majority packets, the packet drops at VPP can only be categorized broadly under these statistics.

You can view specific packet drop reasons only for packets dropped at session manager. Packets dropped at VPP are categorized under Packets Discarded counter in the **show gtpu statistics** CLI.