

show pdg-service

This chapter describes the output of the **show pdg-service** command.

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show pdg-service all

Table 1: show pdg-service all Command Output Description

Field	Description
Service name	The name of the PDG service.
Context name	The name of the context in which the PDG service resides.
Bind	Displays the bind status for the PDG service for binding the service to a crypto template.
Max sessions	The maximum number of sessions supported by the PDG service.
IP address	The IPv4 address of the PDG service.
UDP Port	The UDP port number associated with the IP address.
Service State	The current state of the PDG service.
Crypto-template	The name of the crypto template bound to the FNG service.
SSL-template	The name of the SSL template bound to the FNG service. This is a customer-specific field.
SGTP Service	The name of the SGTP service bound to the PDG service.
SGTP Service context	The name of the context in which the SGTP service was created.
Session Setup Timeout (sec)	The maximum time allowed to set up a session in seconds.

Field	Description
Certificate Selection	The selection method for selecting the certificate to be included in the first IKE-AUTH message. Can be APN-based or crypto template-based.
PLMN Id	The PLMN identifiers for the PDG/TTG.
Duplicate Session Detection Type	The duplicate session detection type.
IP Source Violation - Drop Limit	The drop-limit value, which is the maximum number of allowed IP source violations within the detection period before dropping a call.
IP Source Violation - Period	The detection period in seconds for IP source violations.
IP Source Violation - Clear On Valid Packet	Displays whether the option to reset the drop-limit counters upon receipt of a properly addressed packet is enabled or disabled.
3gpp qos to dscp Downlink mapping	This group indicates the 3GPP QoS to DSCP downlink mapping information.
conversational	Indicates the DSCP configured for conversational type of traffic.
streaming	Indicates the DSCP configured for streaming type of traffic.
interactive (TP 1)	Indicates the DSCP configured for interactive type of traffic with traffic priority 1.
interactive (TP 2)	Indicates the DSCP configured for interactive type of traffic with traffic priority 2.
interactive (TP 3)	Indicates the DSCP configured for interactive type of traffic with traffic priority 3.
background	Indicates the DSCP configured for background type of traffic.
3GPP qos to dscp Downlink mapping based on Alloc. Prio	This group indicates the 3GPP QoS to DSCP downlink mapping information based on allocation priority.
interactive (TP 1, Alloc.P 1)	Indicates the DSCP configured for interactive type of traffic with traffic priority 1 and allocation priority 1.
interactive (TP 1, Alloc.P 2)	Indicates the DSCP configured for interactive type of traffic with traffic priority 1 and allocation priority 2.
interactive (TP 1, Alloc.P 3)	Indicates the DSCP configured for interactive type of traffic with traffic priority 1 and allocation priority 3.
interactive (TP 2, Alloc.P 1)	Indicates the DSCP configured for interactive type of traffic with traffic priority 2 and allocation priority 1.
interactive (TP 2, Alloc.P 2)	Indicates the DSCP configured for interactive type of traffic with traffic priority 2 and allocation priority 2.
interactive (TP 2, Alloc.P 3)	Indicates the DSCP configured for interactive type of traffic with traffic priority 2 and allocation priority 3.

Field	Description
interactive (TP 3, Alloc.P 1)	Indicates the DSCP configured for interactive type of traffic withtraffic priority 3 and allocation priority 1.
interactive (TP 3, Alloc.P 2)	Indicates the DSCP configured for interactive type of traffic with traffic priority 2 and allocation priority 2.
interactive (TP 2, Alloc.P 3)	Indicates the DSCP configured for interactive type of traffic with traffic priority 3 and allocation priority 2.
3gpp qos to dscp Uplink mapping (TTG only)	This group indicates the 3GPP QoS to DSCP uplink mapping information.
conversational	Indicates the DSCP configured for conversational type of traffic.
streaming	Indicates the DSCP configured for streaming type of traffic.
interactive (TP 1)	Indicates the DSCP configured for interactive type of traffic with traffic priority 1.
interactive (TP 2)	Indicates the DSCP configured for interactive type of traffic with traffic priority 2.
interactive (TP 3)	Indicates the DSCP configured for interactive type of traffic with traffic priority 3.
background	Indicates the DSCP configured for background type of traffic.
3GPP qos to dscp Uplink mapping based on Alloc. Prio	This group indicates the 3GPP QoS to DSCP downlink mapping information based on allocation priority.
interactive (TP 1, Alloc.P 1)	Indicates the DSCP configured for interactive type of traffic with traffic priority 1 and allocation priority 1.
interactive (TP 1, Alloc.P 2)	Indicates the DSCP configured for interactive type of traffic with traffic priority 1 and allocation priority 2.
interactive (TP 1, Alloc.P 3)	Indicates the DSCP configured for interactive type of traffic with traffic priority 1 and allocation priority 3.
interactive (TP 2, Alloc.P 1)	Indicates the DSCP configured for interactive type of traffic with traffic priority 2 and allocation priority 1.
interactive (TP 2, Alloc.P 2)	Indicates the DSCP configured for interactive type of traffic with traffic priority 2 and allocation priority 2.
interactive (TP 2, Alloc.P 3)	Indicates the DSCP configured for interactive type of traffic with traffic priority 2 and allocation priority 3.
interactive (TP 3, Alloc.P 1)	Indicates the DSCP configured for interactive type of traffic with traffic priority 3 and allocation priority 1.
interactive (TP 3, Alloc.P 2)	Indicates the DSCP configured for interactive type of traffic with traffic priority 3 and allocation priority 2.
interactive (TP 3, Alloc.P 3)	Indicates the DSCP configured for interactive type of traffic with traffic priority 3 and allocation priority 3.

show pdg-service statistics

Table 2: show pdg-service statistics Command Output Description

Field	Description
Session Stats	
Current sessions total	Total number of sessions in progress including transient sessions.
Direct-IP-IPv4 current	Total number of currently active Direct IP IPv4 sessions.
TTG-IPv4 current	Total number of currently active TTG IPv4 sessions.
Active current	Total number of currently active sessions.
Dormant current	Total number of currently dormant sessions.
Active IPv4 current	Total number of currently active IPv4 sessions.
Active IPv6 current	Total number of currently active IPv6 sessions.
Dormant IPv4 current	Total number of currently dormant IPv4 sessions.
Dormant IPv6 current	Total number of currently dormant IPv6 sessions.
Total Direct-IP IPv4	Total number of Direct IP IPv4 sessions.
Total TTG IPv4	Total number of TTG IPv4 sessions.
Direct-IP IPv4 attempts	Total number of Direct IP IPv4 attempts.
Direct-IP IPv4 successes	Total number of Direct IP IPv4 successes.
Direct-IP IPv4 failures	Total number of Direct IP IPv4 failures.
TTG IPv4 attempts	Total number of TTG IPv4 attempts.
TTG IPv4 successes	Total number of TTG IPv4 successes.
TTG IPv4 failures	Total number of TTG IPv4 failures.
Total setup attempts	Total number of session setup attempts.
Total setup success	Total number of successful session attempts.
Total Attempts Failed	Total number of failed session attempts.
Total disconnected	Total number of sessions released locally and remotely.
Disconnect locally	Total number of sessions released locally.
Disconnect remotely	Total number of sessions released remotely.
Disconnect remotely before connect	Total number of sessions released remotely before connecting.

Field	Description
Reauthentication Stats	
Total reauth attempts	Total number of reauthentication attempts.
Total reauth success	Total number of reauthentication successes.
Total reauth failure	Total number of reauthentication failures.
Session Attempts Failed Disconnect reason	
Remote disconnect	Number of session attempts failed before the call is in the CONNECTED state due to a remote disconnect.
Admin disconnect	Number of session attempts failed before the call is in the CONNECTED state due to a disconnect by the administrator.
Session setup timeout	Number of session attempts failed before the call is in the CONNECTED state because the Session Manager's session setup timer has timed out.
No resource	Number of session attempts failed before the call is in the CONNECTED state because the system has run out of resources (flows, memory resources, etc.).
Auth failure	Number of session attempts failed before the call is in the CONNECTED state because of an AAA authentication failure.
Flow add failure	Number of session attempts failed before the call is in the CONNECTED state because a flow could not be added on the NPU.
Invalid dest-context	Number of session attempts failed before the call is in the CONNECTED state because the destination context received from the AAA server is invalid.
GTP	Number of session attempts failed before the call is in the CONNECTED state because of a GTP failure.
Duplicate request	Number of session attempts failed before the call is in the CONNECTED state because of duplicate requests.
Addr assign failure	Number of session attempts failed before the call is in the CONNECTED state because no remote IP address has been assigned.
Miscellaneous reasons	Number of session attempts failed because of miscellaneous reasons, including all session setup failures due to SSL failures (for example, handshake failures, ssl-alert, ssl-bad-message), or an unknown APN case in which the TTG is unable to resolve the APN, and all remaining disconnect reasons before the call is in the CONNECTED state.
Session Disconnect reason	

Field	Description
Remote disconnect	Number of sessions disconnected after the call is in the CONNECTED state because of a remote disconnect.
Admin disconnect	Number of sessions disconnected after the call is in the CONNECTED state by the administrator.
Idle timeout	Number of sessions disconnected after the call is in the CONNECTED state because the Idle timer has timed out.
Absolute timeout	Number of sessions disconnected after the call is in the CONNECTED state because the Absolute timer has timed out.
Long duration timeout	Number of sessions disconnected after the call is in the CONNECTED state because the Long Duration timer has timed out.
Re-Auth failure	Number of sessions disconnected after the call is in the CONNECTED state because of a re-authentication failure.
Source address violation	Number of sessions disconnected after the call is in the CONNECTED state because the source IP address is invalid.
GTP	Number of GTP sessions disconnected after the call is in the CONNECTED state.
Duplicate request	Number of sessions disconnected after the call is in the CONNECTED state because of duplicate requests.
Miscellaneous reasons	Number sessions disconnected after the call is in the CONNECTED state because of miscellaneous reasons.
Data Stats	
Total Bytes Sent	Total number of bytes sent.
Total Packets Sent	Total number of packets sent.
Total Bytes Rcvd	Total number of bytes received.
Total Packets Rcvd	Total number of packets received.
Total Packets Violations	Total number of packet violations.
EAP Server Statistics	
Total Received	Total number of EAP messages received from the EAP server in pass-through mode.
Success Received	Total Number of EAP success messages received from the EAP server in pass-through mode.
Challenge Received	Total number of EAP challenge messages received from the EAP server in pass-through mode.

Field	Description
Failures Received	Total number of EAP failure messages received from the EAP server in pass-through mode.
Total Sent	Total number of EAP messages transmitted to the EAP server in pass-through mode.
Initial Requests	Total number of initial EAP messages transmitted to the EAP server in pass-through mode.
Requests Forwarded	Total number of EAP requests forwarded to the EAP server in pass-through mode.
EAP Mobile Stats	
Total Received	Total number of EAP messages received from the UEs in pass-through mode.
Discarded	Total number of EAP messages received from the UEs in pass-though mode.