

show apn-profile

This chapter describes the output of the **show apn-profile** command.

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show apn-profile full name

Table 1: show apn-profile full name Command Output Descriptions

Field	Description
APN Profile Name	Indicates the name of the Access Point Name (APN) profile.
Resolution Priority	Indicates the address-resolution-mode configured for this APN Profile. Possible values are dns-fallback and local.
Charging Characteristics Prefer Local	Indicates whether the APN profile prefers the charging characteristics settings from the APN profile instead of the charging characteristics received from the HLR.
Charging Characteristics Behavior	Indicates the behavior bit in charging characteristics provided by the APN profile when the HLR does not provide a value.
Charging Characteristics Profile-Index	Indicates the charging characteristics profile index specified by the APN profile, such as 4 for prepaid billing or 8 for normal billing.
3gpp qos to dscp Uplink mapping This group displays 3GPP QoS to Differentiated Services Code Point (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.

Field	Description
interactive (TP 3)	Indicates the DSCP configured for interactive type of traffic with traffic priority 3.
3gpp qos to dscp Uplink mapping based on Allocation Priority This group displays 3GPP QoS to Differentiated Services Code Point (DSCP) uplink 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.
3gpp qos to Downlink mapping This group displays 3GPP QoS to Differentiated Services Code Point (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.

Field	Description
3gpp qos to dscp Downlink mapping based on Allocation Priority This group displays 3GPP QoS to Differentiated Services Code Point (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.
IP Source Validation	Indicates whether check for IP source validation violations is enabled.
Direct Tunnel	Indicates if the SGSN allows direct tunneling if the direct tunneling is supported by destination node.
Service Restriction for Access Type > UMTS	Indicates if the SGSN is configured to restrict the PDP context activation from Universal Mobile Telecommunications Systems (3G) network access.
Inactivity Idle timeout in seconds	Indicates the PDP inactivity timeout value in seconds.
Inactivity Idle timeout action	Indicates the action to be taken when the PDP inactivity timeout value is reached.
Inactivity Idle timeout action condition	Indicates the condition that warrants a PDP detach when PDP inactivity timeout value is reached.
Allocation OR Retention Priority	Indicates the QoS Allocation/Retention Priority.
Traffic Policing	

Field	Description
Traffic Policing Uplink	Indicates if traffic policing is configured for uplink traffic.
Traffic Policing Downlink	Indicates if traffic policing is configured for downlink traffic.
[SaMOG] IP ACL IN	
[SaMOG] IP ACL OUT	
[SaMOG] IP CONTEXT NAME	
[SaMOG] IP POOL NAME	
[SaMOG] IPv6 Prefix Pool Name	Indicates the IPv6 pool name to be used by SaMOG if the 'Framed-IPv6-Pool' AVP is unavailable in the Diameter AA-Answermessage.
[SaMOG] IPv6 Unsolicited Router Advertisement options:	
Number of router advts to deprecate prefix	Indicates the number of times unsolicited router advertisement must be sent to deprecate an IPv6 prefix.
Interval between router advts to deprecate prefix	Indicates the interval between each unsolicited router advertisement to deprecate an IPv6 prefix.
Number of router advts to advertise prefix	Indicates the number of times unsolicited router advertisement must be sent to advertise an IPv6 prefix.
Interval between router advts to advertise prefix	Indicates the interval between each unsolicited router advertisement to advertise an IPv6 prefix.
[SaMOG] IP RULEBASE	
[SaMOG] DNS PRIMARY	
[SaMOG] DNS SECONDARY	
[SaMOG] IPv6 DNS PRIMARY	
[SaMOG] IPv6 DNS Secondary	
[SaMOG] DHCP SHORT LEASE	Indicates the DHCP short lease time for web authorization sessions to force the UE to initiate DHCP request after the pre-authentication phase completes
[SaMOG] DHCP LEASE TIME	Indicates the lease time for the UE's IP address during the web authorization TAL phase.
[SaMOG] DF-SET FRAGMENTATION OPTION	
[SaMOG] FRAGMENTATION TYPE	
Idle Mode ACL (SGW)	

Field	Description
IPv4 ACL	Indicates the configuration of access control lists (ACLs) that define rules to apply to downlink data destined for UEs in an idle mode - IPv4.
IPv6 ACL	Indicates the configuration of access control lists (ACLs) that define rules to apply to downlink data destined for UEs in an idle mode - IPv6.
DNS Extension with MSISDN	Indicates whether the SGSN is configured to append an offset group of digits from the MSISDN to the APN string that is being sent in the DNS query.
DNS Extension with LAC-RAC	Indicates whether the SGSN is configured to append geographical information to the APN string that is being sent in the DNS query.
Fallback on DNS Failure	Indicates whether fallback on DNS failure is enabled or disabled.
DNS Extension with RNC-ID	Indicates whether the SGSN is configured to include the ID of the calling RNC in the APN string that is being sent in the DNS query.
DNS Extension with Charging Characteristics	Indicates whether the SGSN is configured to include the profile index value of the charging characteristics in the APN string that is being sent in the DNS query.
SNAPTR DNS Query for APN Resolution	Indicates whether the SGSN is configured to send Straightforward Name Authority Pointer (SNAPTR) type DNS query for APN resolution.
P-GW	
IP-Address	Indicates the IP address of the P-GW supporting APNs associated with this APN profile.
S5-S8-Protocol	Indicates the S5-S8 protocol configured for the this P-GW.
Weight	Indicates the weight assigned to this P-GW for load balancing purposes.
QOS APN-AMBR	
MAX uplink	Indicates the aggregate maximum bit rate (AMBR) for uplink (subscriber to network) traffic.
MAX downlink	Indicates the aggregate maximum bit rate (AMBR) for downlink (network to subscriber) traffic.
QOS Default BRR	
QCI	Indicates the QoS Class Identifier (QCI) for the default bearer.
ARP	Indicates the QoS address retention priority (ARP) value for the default bearer.

Field	Description
Preemption-Capability	Indicates the configuration of the QoS preemption capability flag for the default bearer.
Preemption-Vulnerability	Indicates the configuration of the QoS vulnerability capability flag for the default bearer.
QCI-QOS mapping table	If configured, the name of the QCI-QOS mapping table associated with this APN Profile.
Location Reporting	
Location Reporting UMTS	Indiates the configuration of the **location-reporting** command for UMTS access type.
Location Reporting GPRS	Indiates the configuration of the **location-reporting** command for GPRS access type.
APN Type	Indicates the configuration of the **apn-type** command, which identifies the APN is an IMS APN, allowing the SGSN to delay sending MBR to the S-GW until after receiving the Forward Relocation Complete Ack from the peer during SRNS procedure. By default this identification is disabled.
QOS upgrade from PGW for non-gbr	
Action	Indicates the configuration of the **qos pgw-upgrade non-gbr** command, which configures the action to be taken when the MME receives a QoS upgrade from P-GW for Non-GBR bearers Possible values: accept/reject/locally-cap/Not Configured.
Dedicated bearers	
GBR	Indicates the configuration of the **dedicated-bearers** command, which configures the MME to either accept or reject GBR dedicated bearers. Possible values: accept/reject/Not Configured.
Non-GBR	Indicates the configuration of the **dedicated-bearers** command, which configures the MME to either accept or reject Non-GBR dedicated bearers. Possible values: accept/reject/Not Configured.
Allow QoS Upgrade from GGSN	
QoS Upgrade From GGSN (UMTS)	Indicates if QoS upgrade from GGSN is enabled or disabled.
Capped with Subscribed QoS	Indicates if capping of QoS with Subscribed QoS (local/HLR) is enabled or disabled.
QoS Upgrade From GGSN (GPRS)	Indicates if QoS upgrade from GGSN is enabled or disabled.

Field	Description
Capped with Subscribed QoS	Indicates if capping of QoS with Subscribed QoS (local/HLR) is enabled or disabled.
Bearer Inactivity Timeout	
Exclude Default Bearer	Indicates if the application will ignore bearer inactivity handling for default/primary bearer.
GBR or non-GBR	Indicates that the system will check for low activity on a GBR or non-GBR bearer.
Timeout (Seconds)	The configured dedicated bearer timeout, in seconds.
Threshold (bytes)	The configured volume threshold for the dedicated bearer timeout (in bytes).
Direction	The traffic direction on which to execute the dedicated bearer timeout action (uplink, downlink, or bi-directional).
Associated Quality of Service Profile Name (UMTS)	Displays the name of the Quality of Service profile associated with the APN profile in a 3G network (access type "UMTS").
Associated Quality of Service Profile Name (GPRS)	Displays the name of the Quality of Service profile associated with the APN profile in a 2G network (access type "GPRS").
Validity	Displays the validity of the QoS profile associated with the APN profile as either "Valid" or "Invalid" based on whether or not such a QoS profile is created or exists in the 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 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.
APN Restoration Priority	Displays the locally configured priority for reactivating impacted PDNs following a P-GW Restart Notification (PRN). If enabled, the configured restoration priority of 1 through 16 is displayed (1 is highest priority, 16 is lowest).

Field	Description
Service Restriction for Access Type UMTS	The restrict access-type command under the APN profile configuration mode is used to configure PDP activation restriction on the basis of access type. This field displays if service restriction is enabled for an UMTS service.
Service Restriction for Access Type GPRS	The restrict access-type command under the APN profile configuration mode is used to configure PDP activation restriction on the basis of access type. This field displays if service restriction is enabled for an GPRS service.
Service Restriction for Access Type EPS	The restrict access-type command under the APN profile configuration mode is used to configure PDP activation restriction on the basis of access type. This field displays if service restriction is enabled for an EPS service.
Complete APN restricted	This field indicates if complete APN restriction is enabled.
ESM-T3396 Timer	This fields displays "Not Configured" if the ESM T3396 timeout is not configured for any cause code.
If the ESM T3396 timeout is configured for a cause code, the following two fields display the configured values.	
Value for Cause Code UNKNOWN OR MISSING APN(27)	This fields displays the configured T3396 timeout value in seconds for cause code value 27.
Value for Cause Code INSUFFICIENT RESOURCES(26)	This fields displays the configured T3396 timeout value in seconds for cause code value 26.
CIoT:	
SCEF:	
Wait-Time	Displays the configured SCEF wait time, in seconds.
S-GW Restoration	
Session Hold (T-PDN Release) time	Specifies the maximum time to hold or release sessions at S-GW
UE Usage Type	Configures UE usage type for disconnecting PDN for up service area.
Collocated Node	Configures the Collocation name to select the collocated S/PGW node IP addresses and/or PGW Node name for 5GS Interworking. **Note** PGW Node name should be configured under **Collocated-node** for 5GS interworking with N26 interface. This configuration allows the **P-GW Node Name** to include the configured name in **Context Response** and **Forward relocation Request Response** messages from MME to AMF over N26 interface.
PGW-Address with SMF Combined Configuration	

Field	Description
SMF-combined	Configures a combined P-GW and SMF.