



DSCP Marking

Table 1: Feature History

Feature Name	Release Information	Description
DSCP Marking	2025.03.0	AMF applies DSCP marking to outgoing packets on the N2/SCTP and N26/GTPC interfaces, ensuring that traffic is handled appropriately. Command introduced: • config { instance instance-id instance_id { endpoint sctp { dscp dscp_value } } }— Used to configure the DSCP value for N2-SCTP interface. • config { instance instance-id instance_id { endpoint gtp { dscp dscp_value } } }— Used to configure the DSCP value for N26-GTPC interface. Default Setting: Disabled – Configuration Required

Differentiated Services Code Point (DSCP) marking allows network devices to prioritize different types of traffic based on their DSCP value. AMF supports updating the IP headers with configured DSCP information on outgoing packets on N2/SCTP interface and N26/GTPC interface.

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Usage Guidelines for DSCP Marking

To configure DSCP marking:

- Use CLI commands to set DSCP values for N2/SCTP and N26/GTPC interfaces.

- DSCP values can be configured as hexadecimal (e.g., 0x0-0x3F) or decimal (range: 0-63).
- If DSCP value is not specified in the configuration then the default DSCP value is set to 0.
- Configured values apply to all outgoing requests and responses on the specified interface.
- DSCP marking is configured per interface, not per peer or session.
- Supports runtime changes to DSCP values.

Configure DSCP for N2/SCTP Interface

Procedure

Step 1 Enter the instance configuration mode.

instance *instance-id* *instance_id*

Step 2 Configure the endpoint for the instance.

endpoint *endpoint_name*

Specify sctp as the endpoint type for the instance.

Step 3 Configure the DSCP value for the SCTP endpoint.

dscp *dscp_value*

DSCP value is either in hexadecimal string (range 0x0-0x3F) eg:0x3F or decimal value (range 0-63) eg:12.

Following is an example of the sample CLI output for the DSCP marking.

```
[amf] amf# show running-config instance instance-id 1 endpoint sctp
instance instance-id 1
  endpoint sctp
    replicas      2
    nodes         1
    internal-vip  29.29.29.29
    dscp          10
  service sctp-1
    interface sctp
      internal-port metrics 9705 admin 9703 ipc 9701 pprof 9707 keepalived 29001
      internal-vip  29.29.29.29
      vip-ip 29.29.29.29 vip-port 1000
    exit
  exit
service sctp-2
  interface sctp
    internal-port metrics 9715 admin 9713 ipc 9711 pprof 9717 keepalived 29011
    internal-vip  29.29.29.29
    vip-ip 29.29.29.29 vip-port 1001
  exit
exit
exit
exit
exit
```

Step 4 Save and commit the configuration.

Configure DSCP for N26/GTPC Interface

Procedure

Step 1 Enter the instance configuration mode.

instance *instance-id* *instance_id*

Step 2 Configure the endpoint for the instance.

endpoint *endpoint_name*

Specify gtp as the endpoint type for the instance.

Step 3 Configure the DSCP value for the GTPC endpoint.

dscp *dscp_value*

DSCP value is either in hexadecimal string (range 0x0-0x3F) eg:0x3F or decimal value (range 0-63) eg:12.

Following is an example of the sample CLI output for the DSCP marking.

```
[amf] amf# show running-config instance instance-id 1 endpoint gtp
instance instance-id 1
  endpoint gtp
    nodes 2
    retransmission timeout 4 max-retry 5
    internal-vip 27.27.27.27
    dscp 46
    vip-ip 27.27.27.27
    interface n26
      vip-ip 27.27.27.27
    exit
  exit
exit
```

Step 4 Save and commit the configuration.
