



PCC-QoS-Profile Configuration Mode Commands

Command Modes

The PCC-QoS-Profile Configuration Mode is used to define the QoS logic used by the operator for managing the QoS policy requirements and objectives for the network specific to a group of subscribers in the network. A QoS Profile represents a resource requirement identified by means of the corresponding QoS attributes like QCI, MBR, GBR, ARP etc.

Exec > Global Configuration > Context Configuration > PCC Service Configuration > PCC QoS Profile Configuration

configure > context *context_name* > **pcc-service** *service_name* > **qos-profile** *profile_name*

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(config-pcc-qos-profile)#
```



Important

The commands or keywords/variables that are available are dependent on platform type, product version, and installed license(s).



Important

For information on common commands available in this configuration mode, refer to the [Common Commands](#) chapter.

- [arp-priority](#), on page 1
- [guaranteed-bitrate](#), on page 3
- [max-bitrate](#), on page 4
- [qci](#), on page 5

arp-priority

This command is used to define the Allocation and Retention Priority (ARP) values of the QoS profile in PCC-QoS-Profile which is to use in Subscriber profile in PCC-Service instance on IPCF node.

Product

IPCF

Privilege

Security Administrator, Administrator

Command Modes

Exec > Global Configuration > Context Configuration > PCC Service Configuration > PCC QoS Profile Configuration

configure > context *context_name* > **pcc-service** *service_name* > **qos-profile** *profile_name*

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(config-pcc-qos-profile)#
```

Syntax Description

[no] arp-priority *arp_priority* **pre-emption** {**capable** | **not-capable**}
{**not-vulnerable** | **vulnerable**}

no

Removes the configured ARP priority set for PCC-QoS-Profile for PCC-Service instance on IPCF node.

arp_priority

Specifies the priority value for ARP in a PCC-QoS-Profile which is to use in Subscriber profile in PCC-Service instance on IPCF node.

arp_priority must be an integer from 1 through 15.

pre-emption {capable | not-capable}

Sets the Pre-emption capability related parameters with ARP priority in PCC-QoS-Profile name which is to use in Subscriber profile in PCC-Service instance on IPCF node.

Pre-emption capability determines whether a bearer with a lower ARP priority level should be dropped to free up the required resources.

capable: This keyword indicates that the service data flow is allowed to get resources that were already assigned to another service data flow with a lower priority level.

non-capable: This keyword indicates that the service data flow is not allowed to get resources that were already assigned to another service data flow with a lower priority level.

{not-vulnerable | vulnerable}

Sets the Pre-emption vulnerability related parameters with ARP priority in PCC-QoS-Profile name which is to use in Subscriber profile in PCC-Service instance on IPCF node.

Pre-emption vulnerability determines whether a bearer is applicable for dropping by a pre-emption capable bearer with a higher ARP priority value.

not-vulnerable: This keyword indicates that the resources assigned to the service data flow shall not be pre-empted and allocated to a service data flow with a higher priority level.

vulnerable: This keyword indicates that the resources assigned to the service data flow can be pre-empted and allocated to a service data flow with a higher priority level.

Usage Guidelines

Use this command to define the ARP priority and pre-empt parameters in PCC-QoS-Profile which is to be used in Subscriber profile in PCC-Service instance on IPCF node.

ARP controls how the IPCF reacts when there are insufficient resources to establish the new RAB. Typically it manages it by; 1) Deny the RAB request and 2) Preempt an existing RAB and accept the new RAB request.

Example

Following command sets the ARP Priority 2 with preemption capability and vulnerability in PCC-QoS-Profile instance on IPCF node.

```
arp-priority 2 pre-emption capable vulnerable
```

guaranteed-bitrate

This command defines the Guaranteed Bit Rate (GBR) value in bits per second for downlink and uplink traffic in PCC-QoS-Profile which is to use for Subscriber profile in PCC-Service instance on IPCF node.

Product	IPCF
Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > Context Configuration > PCC Service Configuration > PCC QoS Profile Configuration

configure > **context** *context_name* > **pcc-service** *service_name* > **qos-profile** *profile_name*

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(config-pcc-qos-profile)#
```

Syntax Description

[no] **guaranteed-bitrate** **downlink** *downlink_gbr* **uplink** *uplink_gbr*

no

Removes the configured GBR value set for PCC-QoS-Profile for PCC-Service instance on IPCF node.

downlink *downlink_gbr*

Sets the Guaranteed Bit Rate allowed in downlink direction (from PCEF to UE) in bits per second for a PCC-QoS-Profile which is to use for Subscriber profile in PCC-Service instance on IPCF node.

downlink_gbr must be an integer from 0 through 104857600. A 'zero' value disables the downlink in specified PCC-QoS-Profile.

uplink *uplink_gbr*

Sets the Guaranteed Bit Rate allowed in uplink direction (from PCEF to PDN) in bits per second for a PCC-QoS-Profile which is to use for Subscriber profile in PCC-Service instance on IPCF node.

uplink_gbr must be an integer from 0 through 104857600. A 'zero' value disables the uplink in specified PCC-QoS-Profile.

Usage Guidelines

Use this command to define the Guaranteed Bit Rate value in bits per second for downlink and uplink traffic in PCC-QoS-Profile which is to use for Subscriber profile in PCC-Service instance on IPCF node.

Example

Following command sets the *1024* bits per seconds as uplink GBR and *2048* bits per second as downlink GBR in PCC-QoS-Profile instance on IPCF node.

```
guaranteed-bitrate downlink 2048 uplink 1024
```

max-bitrate

This command defines the Maximum Bit Rate (MBR) value in bits per second for downlink and uplink traffic in PCC-QoS-Profile which is to use for Subscriber profile in PCC-Service instance on IPCF node.

Product	IPCF
Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > Context Configuration > PCC Service Configuration > PCC QoS Profile Configuration configure > context <i>context_name</i> > pcc-service <i>service_name</i> > qos-profile <i>profile_name</i> Entering the above command sequence results in the following prompt: [<i>context_name</i>]host_name(config-pcc-qos-profile)#
Syntax Description	[no] max-bitrate downlink <i>downlink_mbr</i> uplink <i>uplink_mbr</i> no Removes the configured Maximum Bit Rate value set for PCC-QoS-Profile for PCC-Service instance on IPCF node. downlink <i>downlink_mbr</i> Sets the Maximum Bit Rate allowed in downlink direction (from PCEF to UE) in bits per second for a PCC-QoS-Profile which is to use for Subscriber profile in PCC-Service instance on IPCF node. <i>downlink_mbr</i> must be an integer from 0 through 104857600. A 'zero' value disables the downlink in specified PCC-QoS-Profile. uplink <i>uplink_mbr</i> Sets the Maximum Bit Rate allowed in uplink direction (from PCEF to PDN) in bits per second for a PCC-QoS-Profile which is to use for Subscriber profile in PCC-Service instance on IPCF node. <i>uplink_mbr</i> must be an integer from 0 through 104857600. A 'zero' value disables the uplink in specified PCC-QoS-Profile.
Usage Guidelines	Use this command to define the Maximum Bit Rate value in bits per second for downlink and uplink traffic in PCC-QoS-Profile which is to use for Subscriber profile in PCC-Service instance on IPCF node.

Example

Following command sets the *1024* bits per seconds as uplink MBR and *2048* bits per second as downlink MBR in PCC-QoS-Profile instance on IPCF node.

```
max-bitrate downlink 2048 uplink 1024
```

qci

This command sets the QoS Class Identifier (QCI) for PCC-QoS-Profile which is to use for Subscriber profile in PCC-Service instance on IPCF node.

Product	IPCF
Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > Context Configuration > PCC Service Configuration > PCC QoS Profile Configuration

```
configure > context context_name > pcc-service service_name > qos-profile profile_name
```

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(config-pcc-qos-profile) #
```

Syntax Description	[no] qci <i>qci_id</i>
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no

Removes the configured QCI value set for PCC-QoS-Profile for PCC-Service instance on IPCF node.

qci *qci_id*

Sets the QoS Class Identifier for a PCC-QoS-Profile which is to use for Subscriber profile in PCC-Service instance on IPCF node.

qci_id must be an integer from 1 through 255.

Usage Guidelines	Use this command to set the QoS Class Identifier for PCC-QoS-Profile which is to use for Subscriber profile in PCC-Service instance on IPCF node.
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Example

Following command sets the QCI *101* for PCC-QoS-Profile instance on IPCF node.

```
qci 101
```

qci