

PCC-QoS-Profile Configuration Mode Commands

c/r	
Important	This configuration mode is supported from StarOS Release 12.1 onward.
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 <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:
	[context_name]host_name(config-pcc-qos-profile)#
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Important	The commands or keywords/variables that are available are dependent on platform type, product version, and installed license(s).
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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-priorit	t y

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 <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:
	[context_name]host_name(config-pcc-qos-profile)#
Syntax Description	<pre>[no] arp-priority arp_priority pre-emption {capable not-capable} {not-vulnerable vulnerable}</pre>
	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

arp_priority must be an integer from 1 through 15.

pre-emption {capable | not-capable}

instance on IPCF node.

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.

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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:
	[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 <i>downlink_gbr</i>
	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.
	<i>downlink_gbr</i> must be an integer from 0 through 104857600. A 'zero' value disables the downlink in specified PCC-QoS-Profile.
	uplink <i>uplink_gbr</i>
	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.
	<i>uplink_gbr</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 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:
	[context_name]host_name(config-pcc-qos-profile)#
Syntax Description	[no] max-bitrate downlink downlink_mbr uplink uplink_mbr
	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 <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:
	[context_name]host_name(config-pcc-qos-profile)#
Syntax Description	[no] qci_id
	no
	Removes the configured QCI value set for PCC-QoS-Profile for PCC-Service instance on IPCF node.
	qci <i>qci_id</i>
	Sets the QoS Class Identifier for a PCC-QoS-Profile which is to use for Subscriber profile in PCC-Service instance on IPCF node.
	<i>qci_id</i> 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.
	Example
	Following command sets the QCI 101 for PCC-QoS-Profile instance on IPCF node.
	qci 101