PCC-QoS-Profile Configuration Mode Commands

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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 *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)#`

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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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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**

end

Exits the current configuration mode and returns to the Exec mode.

Product

All

Privilege

Security Administrator, Administrator

Syntax Description

`end`

Usage Guidelines

Use this command to return to the Exec mode.

exit

Exits the current mode and returns to the parent configuration mode.

Product

All

Privilege

Security Administrator, Administrator

Syntax Description

`exit`

Usage Guidelines

Use this command to return to the parent configuration mode.

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 *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**] **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 *downlink_mbr*

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.

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

uplink *uplink_mbr*

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.

uplink_mbr 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** *qci_id*

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.

Example

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

qci *101*