



UCC 5G PCF - Release Change Reference

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Features and Changes Quick Reference

Features / Behavior Changes	Release Introduced / Modified
Dynamic ARP Functionality for PC and PV, on page 2	2021.04.0
Handle Issues of Multiple CDL Entry Updates, on page 3	2021.04.0
IPv6 Support on NF Interfaces, on page 4	2021.04.0
Network Slicing	2021.04.0

Feature Defaults Quick Reference

The following table indicates what features are enabled or disabled by default.

Feature	Default
Dynamic ARP Functionality for PC and PV	Enabled – Always-on
Handle issues of multiple CDL entry update	Disabled – Configuration required to enable

Feature	Default
IPv6 Support on NF Interfaces	<ul style="list-style-type: none"> • Diameter Endpoint: Enabled – Always-on • LDAP, NRF, N7, N28, and NNRF external interfaces or endpoints: Disabled – Configuration required to enable
Network Slicing	Enabled – Configuration required to disable

Dynamic ARP Functionality for PC and PV

Feature Summary and Revision History

Summary Data

Table 1: Summary Data

Applicable Product(s) or Functional Area	PCF
Applicable Platform(s)	SMI
Feature Default Setting	Enabled - Always-on
Related Documentation	<i>UCC 5G PCF Configuration and Administration Guide</i>

Revision History

Table 2: Revision History

Revision Details	Release
First introduced.	2021.04.0

Feature Description

PCF supports the dynamic ARP feature to send the same Priority-Level value in the dedicated bearers as that of the default bearer.

The dynamic ARP functionality is extended to Preemption Capability (PC) and Preemption Vulnerability (PV).

The PC parameter defines whether a bearer with a lower priority level should be dropped to free up the required resources.

The PV parameter defines whether a bearer is applicable for such dropping by a preemption capable bearer with a higher priority value.

To support this functionality, two new columns, Rx_Dynamic_Vulnerability and Rx_Dynamic_Capability are added to the Rx_QoS_Table.

For more information, see [Dynamic ARP Functionality for PC and PV](#) chapter in the [UCC 5G PCF Configuration and Administration Guide](#).

Handle Issues of Multiple CDL Entry Updates

Feature Summary and Revision History

Summary Data

Table 3: Summary Data

Applicable Product(s) or Functional Area	PCF
Applicable Platform(s)	SMI
Feature Default Setting	Disabled – Configuration required to enable
Related Documentation	<i>UCC 5G PCF Configuration and Administration Guide</i>

Revision History

Table 4: Revision History

Revision Details	Release
Enhancement introduced. Support to handle issues of multiple CDL entry updates	2021.04.0

Feature Description

PCF can handle issues of multiple CDL entry updates when multiple RxSTR received on PCF within a short gap.



Note It is recommended to configure this feature after upgrading both local and remote sites to the latest PCF version.

For more information, see [Common Data Layer](#) chapter in the [UCC 5G PCF Configuration and Administration Guide](#).

IPv6 Support on NF Interfaces

Feature Summary and Revision History

Summary Data

Table 5: Summary Data

Applicable Product(s) or Functional Area	PCF
Applicable Platform(s)	SMI
Feature Default Setting	<ul style="list-style-type: none"> • Diameter Endpoint: Enabled – Always-on • LDAP, NRF, N7, N28, and NNRF external interfaces or endpoints: Disabled – Configuration required to enable
Related Documentation	<i>UCC 5G PCF Configuration and Administration Guide</i>

Revision History

Table 6: Revision History

Revision Details	Release
Enhancement introduced. PCF supports IPv6 connectivity on Diameter, LDAP, NRF, N7, N28, and NNRF external interfaces or endpoints.	2021.04.0

Feature Description

PCF supports both IPv4 and IPv6 connectivity on Diameter, LDAP, NRF, N7, N28 and NNRF external interfaces/endpoints (inbound and outbound).

For more information, see the following chapters in [UCC 5G PCF Configuration and Administration Guide](#).

- [Diameter Endpoint](#)
- [LDAP and Sh Interface](#)
- [Multiple Virtual IP Address](#)
- [NRF Interface](#)

Network Slicing

Feature Summary and Revision History

Summary Data

Table 7: Summary Data

Applicable Product(s) or Functional Area	PCF
Applicable Platform(s)	SMI
Feature Default Setting	Enabled – Configuration required to disable
Related Documentation	<i>UCC 5G PCF Configuration and Administration Guide</i>

Revision History

Table 8: Revision History

Revision Details	Release
First introduced.	2021.04.0

Feature Description

The network slicing solution allows the service providers to partition the 5G physical network into multiple virtual network slices.

PCF implements network virtualization by registering the Single–Network Slice Selection Assistance Information (S-NSSAIs) with the NRF. The S-NSSAI enables PCF to identify a network slice. After the registration is complete, SMF and AMF can discover the PCF instances serving the specific slices.

For more information, see the [Network Slicing](#) chapter in the [UCC 5G PCF Configuration and Administration Guide](#).

