N4 Interface Configuration

This chapter covers the following topics:

Feature Summary and Revision History

Summary Data

Table 1: Summary Data

Applicable Product(s) or Functional Area	5G-UPF
Applicable Platform(s)	VPC-SI
Feature Default Setting	Disabled - Configuration Required
Related Changes in this Release	Not Applicable
Related Documentation	*UCC 5G UPF Configuration and Administration Guide*

Revision History

Table 2: Revision History

Revision Details	Release
First introduced.	2020.02.0

Feature Description

This chapter provides the configuration information to identify a peer node to be an N4 interface, and the configuration to modify N4 parameters in an Sx-Service.

Configuring N4 Interface

This section describes the following configurations:

- Identifying N4 Interface
- Adding N4-type and Modification of N4 Parameters in Sx Service

Identifying an N4 Interface

Use the following configuration to identify if a peer node is an N4 interface type.

```
configure
   control-plane-group group_name
      peer-node-id [ ipv4-address ipv4_address | ipv6-address ipv6_address ]
interface n4
      end
```

NOTES:

- To enable the **n4 interface** CLI command, you need the **require upf** CLI command on the UPF, which depends on the UPF license.
- **[ipv4-address** *ipv4_address* **| ipv6-address** *ipv6_address* **]** :

  ipv4-address *ipv4_address*: Specifies the IPv4 address of the peer node.

  ipv6-address *ipv6_address*: Specifies the IPv6 address of the peer node.
- **interface n4**: Identifies the N4 interface.

Modification of N4-type Parameters in an Sx Service

Use the following configuration to modify N4-type parameters in an Sx Service.

```
configure
   context context_name
      sx-service service_name
         n4 [ max-retransmissions max_retransmission_value |
retransmission-timeout-ms timeout_value ]
         end
```

NOTES:

- **n4**: Allows modifications to N4 parameters.

- **[max-retransmissions***max_retransmission_value* **| retransmission-timeout-ms** *timeout_value***]**:

  max-retransmissions *max_retransmission_value* Configures maximum retries for Sx control packets. *max_retransmission_value* must be an integer in the range of 0 to 15. The default value is 4.

  retransmission-timeout-ms: Configures the control packet retransmission timeout in Sx in milliseconds. *timeout_value* must be an integer in the range of 1000 to 20000 milliseconds. The timeout value must be configured in steps of 100; for example: 1000, 1100, 1200, and so on. The default value is 5000 milliseconds.

Statistics

This section provides information on show commands and their output available in support of this feature.

show control-plane-group

The output of this command displays the following fields for this feature:

- Interface Type – This field indicates if the peer interface is N4. It is not displayed for non-N4 interfaces.

show sx-service all

The output of this command displays the following fields for this feature:

- N4
  - N4 Retransmission Timeout
  - N4 Maximum Request Retransmission

show subscribers user-plane-only all

The output of this command displays the following fields for this feature:

- Interface
  - N4

show user-plane-service statistics all

The output of this command displays the following fields for this feature:

- N4 interface-type PDNs
  - Active
  - Setup
  - Released

show subscribers user-plane-only seid number pdr all

The output of this command displays the following fields for this feature:

- Associated-QFIs

show subscribers user-plane-only callid number pdr full all

The output of this command displays the following fields for this feature:

- QoS Flow Identifier