

User Plane Service Configuration Mode Commands

The User Plane Service Configuration Mode is used to create and manage the User Plane services on this system. The User Plane service acts as SGW-U service or PGW-U service based on Sx session established from Control plane. A single User-Plane-Service can serve SGW-U type sessions and/or PGW-U type sessions. You can also define two or more separate User-Plane-Services for each node type SGW-U and PGW-U respectively.

User Plane Service is associated with Sx Service for Control Plane interface and GTPU-Service for receiving GTPU packets. For this release, each User-Plane-Service is associated with only single Sx Service to interface with Control plane.

Command Modes

Exec > Global Configuration > Context Configuration >User Plane Service Configuration

configure > context *context_name* **> user-plane-service** *service_name*

Entering the above command sequence results in the following prompt:

```
[context_name]host_name( config-user-plane-service )#
```

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

- associate, on page 1
- associate ise-server-profile name, on page 3
- end, on page 3
- exit, on page 4

associate

Associates or disassociates a user-plane service with GTPU. By default, this CLI command is disabled.

Product

CUPS

Privilege

Administrator

Command Modes

Exec > Global Configuration > Context Configuration > User Plane Service Configuration

configure > context *context_name* **> user-plane-service** *service_name*

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(config-user-plane-service)#
```

Syntax Description

```
[ no ] associate gtpu-service service_name  { pgw-ingress | sgw-ingress |
sgw-egress | sx-service | cp-tunnel | upf-ingress | interface-type [ n9
|s5u | s8u | n3 ] }
associate { upf-load-control-profile profile_name |
upf-overload-control-profile profile_name }
```

upf-load-control-profile *profile_name*

Specify the UPF load control profile name to associate.

upf-overload-control-profile *profile_name*

Specify the UPF overload control profile name to associate.

gtpu-service *service_name*

Associate GTPU service with user-plane service.

service_name specifies the name for a pre-configured GTPU service to be associated with the user-plane service.

pgw-ingress

Configure the interface type as PGW ingress.

sgw-ingress

Configure the interface type as SGW ingress.

sgw-egress

Configure the interface type as SGW egress.

sx-service

Configure the interface type as Sx service.

cp-tunnel

Configure the interface type as cp-tunnel (tunnel towards Control Plane function).

upf-ingress

Configure the interface type as UPF ingress.

interface-type [n9 |s5u | s8u | n3]

Configure the desired GTP-U ingress interface type.

Usage Guidelines Use this command to associate a pre-configured GTPU service the user-plane service.

Example

The following command associates a pre-configured GTPU service called *gtp1*, with **pgw-ingress** interface to the user-plane service:

```
associate gtpu-service gtp1 pgw-ingress
```

associate ise-server-profile name

Associates the required ISE profile within the UPF service.

Product UPF

Privilege Administrator

Command Modes Exec > Global Configuration > Context Configuration > User Plane Service Configuration

configure > context *context_name* **> user-plane-service** *service_name*

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(config-user-plane-service)#
```

Syntax Description **associate ise-server-profile name** *profile_name*

associate ise-server-profile name *profile_name*

Associates an ISE profile within the UPF service.

Usage Guidelines Use this command to associate an ISE profile within the user-plane service.

Example

The following command associates the ISE server profile *ise_1* with the user- plane service.

```
associate ise-server-profile name ise_1
```

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.