

S1-U Relay Configuration Mode Commands

Important In Release 20, 21.0 and 21.1, HeNBGW is not supported. Commands in this configuration mode must not be used in these releases. For more information, contact your Cisco account representative.

The S1-U Relay configuration option enables the S1-U Relay service functionality to the HeNB-GW Access Service. . In this mode user can configure associations to the Access and Network GTP-U services for S1-U Relay

Command Modes Exec > Global Configuration > Context Configuration > HeNB-GW Access Service Configuration > S1-U Relay Configuration

configure > context *context_name* **> henbgw-access-service** *access_svc_name* **> s1u-relay**

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(s1u-relay)#
```

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

- associate, on page 1
- do show, on page 2
- end, on page 3
- exit, on page 3
- ip, on page 3

associate

Associates previously configured Access GTP-U service as well as the Network GTP-U service to this HeNB-GW Access Service for S1-U relay service functionality. The Access and Network GTP-U services must be configured in the Context Configuration mode before using this configuration.

Product HeNB-GW

Privilege

Security Administrator, Administrator

Command Modes

Exec > Global Configuration > Context Configuration > HeNB-GW Access Service Configuration > S1-U Relay Configuration

configure > context *context_name* **> henbgw-access-service** *access_svc_name* **> s1u-relay**

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(s1u-relay)#
```

Syntax Description

associate { access-gtpu-service *access_gtpu_svc* **| network-gtpu-service** *network_gtpu_svc* **} [context** *ctxt_name* **]**
no associate { access-gtpu-service | network-gtpu-service }

no

Removes the associated Access or Network GTP-U service from this HeNB-GW Access service configuration.

access_gtpu_svc

Identifies the name of the pre-configured Access GTP-U service in Context Configuration Mode to associate with this HeNB-GW Access Service for S1-U relay.

acess_gtpu_svc is an alphanumeric string of 1 through 63 characters.

network_gtpu_svc

Identifies the name of the pre-configured Network GTP-U service to associate with this HeNB-GW Access Service for S1-U relay.

network_gtpu_svc is an alphanumeric string of 1 through 63 characters.

Usage Guidelines

Use this command to bind/associate a pre-configured Access or Network GTP-U service to this HeNB-GW Access service. When S1-U Relay is enabled, the association to ingress and egress GTP-U services is considered as critical configuration for the HeNB-GW Access service. When S1-U relay is enabled, both access and network gtpu services needs to be in STARTED state for the HENBGW access service to be started.

Example

Following command associates a Network GTP-U service named *net_gtpu* in egress context with a specific HeNB-GW Access service:

```
associate network-gtpu-service net_gtpu context egress
```

do show

Executes all **show** commands while in Configuration mode.

Product

All

Privilege

Security Administrator, Administrator

Syntax Description `do show`

Usage Guidelines Use this command to run all Exec mode **show** commands while in Configuration mode. It is not necessary to exit the Config mode to run a **show** command.

The pipe character **|** is only available if the command is valid in the Exec mode.



Caution There are some Exec mode **show** commands which are too resource intensive to run from Config mode. These include: **do show support collection**, **do show support details**, **do show support record** and **do show support summary**. If there is a restriction on a specific **show** command, the following error message is displayed:

```
Failure: Cannot execute 'do show support' command from Config mode.
```

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.

ip

Configures the Internet protocol (IP) parameters including downlink and uplink of data for specified HENBGW ACCESS service.

Product HeNB-GW

Privilege

Security Administrator, Administrator

Command Modes

Exec > Global Configuration > Context Configuration > HeNB-GW Access Service Configuration > S1-U Relay Configuration

configure > context *context_name* **> henbgw-access-service** *access_svc_name* **> s1u-relay**

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(s1u-relay)#
```

Syntax Description

Release 19.2 and later:

ip { downlink | uplink } qci-dscp-mapping-table *table_name*

Release 18 and earlier:

ip { downlink | uplink } qos-dscp { af11 | af12 | af13 | af21 | af22 | af23 | af31 | af32 | af33 | af41 | af42 | af43 | be | ef }



Important The **qos-dscp** keyword is deprecated from 19.2 and later releases.

no ip { downlink | uplink } qci-dscp-mapping-table

no

Removes the IP parameters for downlink/uplink data from this HeNB-GW Access service configuration.

Removes the QCI-DSCP mapping table for downlink/uplink data from this HeNB-GW Access service configuration.

downlink

Direction (towards henb) in which DSCP marking shall be done.

uplink

Direction (towards sgw) in which DSCP marking shall be done.

qci-dscp-mapping-table *table_name*

QCI-DSCP mapping table to refer for this HENBGW ACCESS service.

table_name is the table name , which is a string of size 1 to 63.

qos-dscp { af11 | af12 | af13 | af21 | af22 | af23 | af31 | af32 | af33 | af41 | af42 | af43 | be | ef }

Default: **af11**

Specifies the DSCP for the specified QoS traffic pattern. **qos-dscp** can be configured to any one of the following:

af11: Assured Forwarding 11 per-hop-behavior (PHB)

af12: Assured Forwarding 12 PHB

af13: Assured Forwarding 13 PHB

af21: Assured Forwarding 21 PHB

af22: Assured Forwarding 22 PHB

af23: Assured Forwarding 23 PHB

af31: Assured Forwarding 31 PHB

af32: Assured Forwarding 32 PHB

af33: Assured Forwarding 33 PHB

af41: Assured Forwarding 41 PHB

af42: Assured Forwarding 42 PHB

af43: Assured Forwarding 43 PHB

be: Best effort forwarding PHB

ef: Expedited forwarding PHB

Usage Guidelines

Use this command to configure the Internet protocol (IP) parameters including downlink and uplink of data for specified HENBGW ACCESS service.

Example

Following command configures the DSCP-level for uplink data traffic through a specific HeNB-GW Access service to **af31**:

```
ip uplink qos-dscp af31
```

Following command configures the QCI-DSCP mapping table table1.

```
ip uplink qci-dscp-mapping-table table1
```