

HSGW Service RoHC Configuration Mode Commands

The HSGW Service RoHC Configuration Mode is used to configure Robust Header Compression (RoHC) parameters for the service.

Command Modes

Exec > Global Configuration > Context Configuration > HSGW Service Configuration > HSGW Service RoHC Configuration

configure > context *context_name* **> hsgw-service** *service_name* **> ip header-compression rohc**

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(config-ip-header-compression-rohc)#
```

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

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cid-mode

This mode allows you to configure options that apply during RoHC compression for the service.

Product

HSGW

Privilege

Administrator

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Entering the above command sequence results in the following prompt:

```
[context_name]host_name(config-ip-header-compression-rohc)#
```

Syntax Description

cid-mode { large | small } max-cid *integer*
default cid-mode

default

Reset all options in the RoHC Profile Compression Configuration mode to their default values.

large

Use large packets with optional information for RoHC

small

This is the default packet size.

Use small RoHC packets.

max-cid *integer*

Specifies the highest context ID number to be used by the compressor as an integer from 0 through 15 when small packet size is selected, and 0 through 31 when large packet size is selected. Default: 15

Usage Guidelines

Use this command to set the RoHC packet size and define the maximum

Example

The following command sets large RoHC packet size and sets the maximum CID to *28*:

```
cid-mode large max-cid 28
```

The following command sets the cid-mode to the default settings of small packets and max-cid 0:

```
default cid-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.

mrru

Specifies the size of the largest reconstructed reception unit that the decompressor is expected to reassemble from segments. The size includes the CRC. If maximum received reconstructed unit (MRRU) is negotiated to be 0, no segment headers are allowed on the channel.

Product HSGW

Privilege Administrator

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Entering the above command sequence results in the following prompt:

```
[context_name]host_name(config-ip-header-compression-rohc)#
```

Syntax Description

```
mrru num_octets
default mrru
```

default

Resets the value of this command to its default setting of 0.

num_octets

Specifies the number of allowed octets for the MRRU as an integer from 0 through 65535. Default: 0

Usage Guidelines Use this command to set the size, in octets, of the largest reconstructed reception unit that the decompressor is expected to reassemble from segments.

Example

The following command sets the largest reconstructed reception unit to 1024 octets:

```
mrru 1024
```

The following command resets the MRRU size to its default of 0 octets:

default mrru

profile

Specifies the header compression profiles to use. A header compression profile is a specification of how to compress the headers of a specific kind of packet stream over a specific kind of link. At least one profile must be specified.

Product

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Entering the above command sequence results in the following prompt:

```
[context_name]host_name(config-ip-header-compression-rohc)#
```

Syntax Description

profile { [esp-ip] [rtp-udp] [udp-ip] [uncompressed-ip] }
default profile

default

Default: esp-ip rtp-udp udp-ip uncompressed-ip

Returns the RoHC profile configuration to its default setting.

esp-ip

Enables RoHC Profile 0x0003 which is for ESP/IP compression, compression of the header chain up to and including the first ESP header, but not subsequent subheaders.

rtp-udp

Enables RoHC Profile 0x0001 which is for RTP/UDP/IP compression

udp-ip

Enables RoHC Profile 0x0002 which is for UDP/IP compression; compression of the first 12 octets of the UDP payload is not attempted.

uncompressed-ip

Enables RoHC Profile 0x0000 which is for sending uncompressed IP packets.

Usage Guidelines

Use this command to specify the RoHC header compression profiles.

Example

The following command sets the profiles to use as *esp-ip* and *rtp-udp*:

```
profile esp-ip rtp-udp
```