



# PDSN Service RoHC Configuration Mode Commands

The PDSN Service RoHC Configuration Mode is used to configure RoHC (Robust Header Compression) parameters the PDSN service conveys to the PCF in the initial A11 RRP message before PPP authentication.

## Command Modes

Exec > Global Configuration > Context Configuration > PDSN Service Configuration > PDSN Service ROHC  
**configure > context** *context\_name* > **pdsn-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, keywords and variables in this mode are available dependent on platform type, product version, and installed license(s).

- [cid-mode](#), on page 1
- [do show](#), on page 2
- [end](#), on page 3
- [exit](#), on page 3
- [mrru](#), on page 3
- [profile](#), on page 4

## cid-mode

Enters the RoHC Profile Compression Options Configuration mode and configures options that apply during RoHC compression for the current RoHC profile.

## Product

PDSN

## Privilege

Security Administrator, Administrator

## Command Modes

Exec > Global Configuration > Context Configuration > PDSN Service Configuration > PDSN Service ROHC  
**configure > context** *context\_name* > **pdsn-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)#
```

---

**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***

Default: 15

The highest context ID number to be used by the compressor. *integer* must be an integer from 0 through 15 when small packet size is selected and must be an integer from 0 through 31 when large packet size is selected.

---

**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 100:

```
cid-mode large max-cid 100
```

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

```
default cid-mode
```

## 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.

## mrru

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

**Product**

PDSN

**Privilege**

Security Administrator, Administrator

**Command Modes**

Exec > Global Configuration > Context Configuration > PDSN Service Configuration > PDSN Service ROHC **configure** > **context** *context\_name* > **pdsn-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)#
```

**Syntax Description**

```
mrru num_octets  
default mrru
```

**default**

reset the value of this command to its default setting

**num\_octets**

Default: 0

This is the number of octets for the maximum size of the largest reconstructed reception unit allowed. *num\_octets* must be an integer from 0 through 65535.

**Usage Guidelines**

Use this command to set the size, in octets, of the largest reconstructed reception unit, in octets, 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**

PDSN

**Privilege**

Security Administrator, Administrator

**Command Modes**

Exec> Global Configuration > Context Configuration > PDSN Service Configuration > PDSN Service ROHC

```
configure > context context_name > pdsn-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)#
```

**Syntax Description**

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

**default**

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

This command sets the RoHC profile configuration back to its default setting.

**esp-ip**

This 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**

This enables RoHCProfile 0x0001 which is for RTP/UDP/IP compression

**udp-ip**

This 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**

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

---

**Usage Guidelines**

Use this command to specify the RoHC header compression profiles to use.

**Example**

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

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

profile