

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).

Important For information on common commands available in this configuration mode, refer to the Common Commands chapter.

- cid-mode, on page 1
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- profile, on page 3

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

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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
```

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.

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Command Modes

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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.

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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
```