

CGW Service Configuration Mode Commands

Command Modes

Creates Convergence Gateway (CGW) service and enters CGW service configuration mode.

Exec > Global Configuration > Context Configuration > CGW Configuration

configure > context *context_name* **> cgw-service** *cgw_service_name*

Entering the above command sequence results in the following prompt:

`[context_name]host_name(config-cgw-service)#`

Important Available commands or keywords/variables vary based on platform type, product version, and installed license(s).

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associate

This command associates another service to this CGW service.

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Entering the above command sequence results in the following prompt:

```
[context_name]host_name(config-cgw-service)#
```

Syntax Description

associate { egress-egtp-service *egress_egtp_service* **[context** *context_name* **] | ggsn-service** *ggsn_service* **| mag-service** *mag_service* **[context** *context_name* **] | mrme-service** *mrme_service* **| pgw-service** *pgw_service* **| qci-qos-mapping** *qci_qos_mapping* **| sgtp-service** *sgtp_service* **[context** *context_name* **] | subscriber-map** *subscriber_map* **}**
no associate { egress-egtp-service | ggsn-service | pgw-service | ingress-lma-service | mag-service | qci-qos-mapping | sgtp-service | subscriber-map }

Note **associate mrme-service** is not supported in this release.

Note **no ingress-lma-service** is not supported in this release.

no

Disables association to CGW service.

egress-egtp-service *egress_egtp_service* [context *context_name*]

Configures the egtp-service which provides S2A functionality to the CGW service.

egress-egtp-service is a string and the value must be between *1* and *63*.

Use the **context** keyword to associate the egress egtp service from a different context in the CGW service.

context_name must be an alphanumeric string of 1 through 79 characters.

ggsn-service ggsn_service

Configures the association of a GGSN service for this CGW service.

ggsn_service must be an alphanumeric string of 1 through 63 characters.

mag-service mag_service [context *context_name*]

Configures the association of a MAG service for this CGW service.

mag_service must be an alphanumeric string of 1 through 63 characters.

Important This keyword is available only when the SaMOG General license (supporting both 3G and 4G) is configured. Contact your Cisco account representative for more information on license requirements.

context: Defines the context in which the MAG service was created. If no context is specified, the current context will be used.

context_name must be an alphanumeric string of 1 through 79 characters.

mrme-service *mrme_service*

Configures the association of egress MRME service for this CGW service.

mrme_service is a string and the value must be between *1* and *63*.

pgw-service *pgw_service*

Configures the association of a PGW service for this CGW service.

pgw_service must be an alphanumeric string of 1 through 63 characters.

qci-qos-mapping *qci-qos-mapping*

Configuration related QCI to QoS mapping.

qci-qos-mapping is a string and the value must be between *1* and *63*.

sgtp-service *sgtp_service* [context *context_name*]

Specifies the SGTP service instance to associate with this CGW service.

sgtp_service must be an alphanumeric string of 1 through 63 characters.

context: Defines the context in which the SGTP service was created. If no context is specified, the current context will be used.

context_name must be an alphanumeric string of 1 through 79 characters.

subscriber-map *subscriber_map*

Configures subscriber map association.

subscriber_map is a string and the value must be between *1* and *64*.

ingress-lma-service

Configuration of the ingress LMA for this CGW service.

Usage Guidelines

Use this command to associate another service to this CGW service.

Example

The following command is used to associate the configuration of egress EGTP service *egts* for this CGW service:

```
associate egress-egtp-service egts
```

bind

This command allows you to bind an IPv4 and/or IPv6 address for the LMA driver.

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Command Modes

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configure > context *context_name* **> cgw-service** *cgw_service_name*

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(config-cgw-service)#
```

Syntax Description

[no] bind { ipv4-address *ipv4_address* **[ipv6-address** *ipv6_address* **] | ipv6-address** *ipv6_address* **[ipv4-address** *ipv4_address* **] }**

no

Disables binding.

bind ipv6-address *ipv6_address*

Designates an IPv6 address. This must be followed by IPv6 address.

ipv6_address is IPv4 address, using dotted-decimal notation.

ipv4-address *ipv4_address* [ipv6-address *ipv6_address*] | ipv6-address *ipv6_address* [ipv4-address *ipv4_address*]

Important In this release, the configuration of the IPv6 bind address for PMIPv6 access type is supported as lab quality only.

Specifies the IPv4 or IPv6 address to be used as the connection point between the WLC and the SaMOG gateway. You can optionally bind a secondary IPv4 address (if the primary bind address is an IPv6 address) or IPv6 address (if the primary bind address is an IPv4 address) to the CGW service.

The second bind address can be bound in the same command or separate commands. When the second bind address is provided, the CGW service restarts and existing sessions are lost for the other bind address.

Important For PMIPv6 access type, you can either configure an IPv4 address or IPv6 address for binding. Configuring both IPv4 and IPv6 addresses will result in failure of the configuration, and an error message can be seen in the output of the **show config** command.

ipv4_address must be an IPv4 address expressed in dotted-decimal notation.

ipv6_address must be an IPv6 address expressed in colon (or double-colon) notation.

Usage Guidelines

Use this command to bind an IPv4 and/or IPv6 address for the LMA driver.

Example

The following command binds an IPv4 address for lma driver.

bind ipv4-address *192.51.100.1*

enable-bra-failure-handling

This command enables the HAMGR to select the first session incase the Binding Revocation Ack (BRA) does not have required parameters and the session lookup fails.

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Command Modes

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configure > context *context_name* **> cgw-service** *cgw_service_name*

Entering the above command sequence results in the following prompt:

[context_name]host_name(config-cgw-service)#

Syntax Description

[no] enable-bra-failure-handling

no

Disables Binding Revocation Ack failure handling.

Usage Guidelines

Use this command to enable Binding Revocation Ack failure handling.

Example

The following command enables Binding Revocation Ack failure handling.

enable-bra-failure-handling

end

Exits the current configuration mode and returns to the Exec mode.

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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.

gre sequence-numbers

This command allows you to enable or disable the inclusion of sequence number bit and sequence number value in the GRE encapsulation header.

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Command Modes Exec > Global Configuration > Context Configuration > CGW Configuration

configure > context *context_name* **> cgw-service** *cgw_service_name*

Entering the above command sequence results in the following prompt:

`[context_name]host_name(config-cgw-service)#`

Syntax Description `[ no ] gre sequence-numbers`

no

Disables the inclusion of sequence number bit and sequence number value in the GRE encapsulation header.

Default: Disabled

Usage Guidelines Use this command to enable or disable the inclusion of sequence number bit and sequence number value in the GRE encapsulation header for GRE tunneled packets.

reg-lifetime

Configures Mobile IPV6 session registration lifetime in seconds.

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Command Modes Exec > Global Configuration > Context Configuration > CGW Configuration

configure > context *context_name* **> cgw-service** *cgw_service_name*

Entering the above command sequence results in the following prompt:

`[context_name]host_name(config-cgw-service)#`

Syntax Description

reg-lifetime *seconds*
default reg-lifetime

default

Configures Mobile IPV6 session registration lifetime, in seconds to its default value, *600*.

reg-lifetime *seconds*

Configures Mobile IPV6 session registration lifetime.

seconds is the number of seconds, an integer value between *1* and *262140*.

Usage Guidelines

Use this command to configure Mobile IPV6 session registration lifetime, in seconds.

Example

The following command configures Mobile IPV6 session registration lifetime to 500 seconds.

reg-lifetime *500*

revocation

Configures Binding Revocation support for specific CGW service.

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Command Modes

Exec > Global Configuration > Context Configuration > CGW Configuration

configure > context *context_name* **> cgw-service** *cgw_service_name*

Entering the above command sequence results in the following prompt:

[*context_name*]*host_name*(config-cgw-service)#

Syntax Description

revocation { enable | max-retransmission *max_retransmission* **| retransmission-timeout** *msecs* **}**
default revocation { enable | max-retransmission | retransmission-timeout }
no revocation enable

default

Resets the revocation to its default value.

no

Disables revocation.

enable

Enables the Binding Revocation Support. Default is disabled.

max-retransmission *max_retransmission*

Configures the maximum number of retransmissions.

max_retransmission must be an integer between *0* and *10*.

retransmission-timeout *msecs*

Configures the retransmission timeout in milli seconds.

msecs must be an integer between *500* and *10000*.

Usage Guidelines Use this command to configure Binding Revocation support for specific CGW service.

Example

The following command configures the retransmission timeout to 1000 milli seconds.

```
revocation retransmission-timeout 1000
```

session-delete-delay

Configures CGW to retain the session on receiving a termination request till configured delay time for session continuity in case of break-before-make scenario.

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Syntax Description

```
session-delete-delay timeout delay_msecs
{ default | no } session-delete-delay timeout
```

default

Configures session delate delay to its default value, disabled. Default timeout when enabled is 10000 msecs.

no

Enables / disables session delate delay to its default value.

session-delete-delay timeout *delay_msecs*

timeout : Configuration to retain session till configured time in msecs when enabled.

delay_msecs is the number of milli seconds, an integer value between *1000* and *60000*.

Usage Guidelines Use this command to configure CGW to retain the session on receiving a termination request till configured delay time for session continuity in case of break-before-make scenario.

Example

The following command configures CGW to retain the session timeout to 1500 milli seconds.

```
session-delete-delay timeout 1500
```

timestamp-option-validation

Configures validation of Timestamp Option in Binding Update messages. By default Timestamp option is mandatory.

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Syntax Description

```
timestamp-option-validation
{ default | no } timestamp-option-validation
```

default

Confiugures validation of Timestamp Option in Binding Update messages to its default value.

no

Disables the Timestamp Option in Binding Update messages.

Usage Guidelines Use this command to configure validation of Timestamp Option in Binding Update messages.

Example

The following command configures validation of Timestamp Option in Binding Update messages.

```
timestamp-option-validation
```

timestamp-replay-protection

This command designates timestamp replay protection scheme as per RFC 4285.

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Syntax Description

```
timestamp-replay-protection tolerance seconds
default timestamp-replay-protection tolerance
no timestamp-replay-protection
```

default

Designates default value to timestamp replay protection scheme. The default value of the acceptable difference in timing (between timestamps) before rejecting packet is 7 seconds.

no

Disables the timestamp replay protection scheme.

timestamp-replay-protection tolerance *seconds*

tolerance : Defines the acceptable difference in timing (between timestamps) before rejecting packet, in seconds. *seconds* is the seconds, an integer between *0* and *65535*.

Usage Guidelines

Use this command to designate timestamp replay protection scheme as per RFC 4285.

Example

The following command designates timestamp replay protection for 500 seconds.

```
timestamp-replay-protection  tolerance 500
```