



# 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).

- [associate](#), on page 1
- [bind](#), on page 3
- [enable-bra-failure-handling](#), on page 5
- [end](#), on page 5
- [exit](#), on page 5
- [gre sequence-numbers](#), on page 6
- [reg-lifetime](#), on page 6
- [revocation](#), on page 7
- [session-delete-delay](#), on page 8
- [timestamp-option-validation](#), on page 9
- [timestamp-replay-protection](#), on page 9

## associate

This command associates another service to this CGW service.

---

### Product

SaMOG

---

### Privilege

Security Administrator, Administrator

---

### 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

```
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.

**Product**

SaMOG

**Privilege**

Security Administrator, Administrator

**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 ] 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.

<b>Product</b>	SaMOG
<b>Privilege</b>	Security Administrator, Administrator
<b>Command Modes</b>	Exec > Global Configuration > Context Configuration > CGW Configuration <b>configure &gt; context</b> <i>context_name</i> > <b>cgw-service</b> <i>cgw_service_name</i> Entering the above command sequence results in the following prompt: <i>[context_name]host_name(config-cgw-service)#</i>
<b>Syntax Description</b>	[ <b>no</b> ] <b>enable-bra-failure-handling</b>  <b>no</b> Disables Binding Revocation Ack failure handling.
<b>Usage Guidelines</b>	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.

<b>Product</b>	All
<b>Privilege</b>	Security Administrator, Administrator
<b>Syntax Description</b>	<b>end</b>
<b>Usage Guidelines</b>	Use this command to return to the Exec mode.

## exit

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

<b>Product</b>	All
----------------	-----

<b>Privilege</b>	Security Administrator, Administrator
<b>Syntax Description</b>	<b>exit</b>
<b>Usage Guidelines</b>	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.

<b>Product</b>	SaMOG
<b>Privilege</b>	Security Administrator, Administrator
<b>Command Modes</b>	Exec > Global Configuration > Context Configuration > CGW Configuration <b>configure</b> > <b>context</b> <i>context_name</i> > <b>cgw-service</b> <i>cgw_service_name</i> Entering the above command sequence results in the following prompt: <pre>[context_name]host_name(config-cgw-service)#</pre>

<b>Syntax Description</b>	<b>[ no ] gre sequence-numbers</b>  <b>no</b> Disables the inclusion of sequence number bit and sequence number value in the GRE encapsulation header. <b>Default:</b> Disabled
---------------------------	---

<b>Usage Guidelines</b>	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.

<b>Product</b>	SaMOG
<b>Privilege</b>	Security Administrator, Administrator
<b>Command Modes</b>	Exec > Global Configuration > Context Configuration > CGW Configuration <b>configure</b> > <b>context</b> <i>context_name</i> > <b>cgw-service</b> <i>cgw_service_name</i> Entering the above command sequence results in the following prompt: <pre>[context_name]host_name(config-cgw-service)#</pre>
<b>Syntax Description</b>	<b>reg-lifetime</b> <i>seconds</i> <b>default reg-lifetime</b>

**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.

**Product**

SaMOG

**Privilege**

Security Administrator, Administrator

**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.

**Product**

SaMOG

**Privilege**

Security Administrator, Administrator

**Syntax Description**

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

**default**

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

**no**

Enables / disables session delete 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.

---

### Product

SaMOG

---

### Privilege

Security Administrator, Administrator

---

### Syntax Description

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

#### default

Configures 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.

---

### Product

SaMOG

---

### Privilege

Security Administrator, Administrator

---

### 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.

**timestamp-replay-protection****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
```