



# Peer-Server Configuration Mode Commands

## Command Modes

The Peer-Server configuration mode provides the commands to define and manage the peer server configuration part of the SS7 routing on an SGSN.

Exec > Global Configuration > SS7 Routing Domain Configuration > Peer-Server Configuration

**configure** > **ss7-routing-domain** *rd\_id* **variant** *variant\_type* > **peer-server** **id** *server\_id*

Entering the above command sequence results in the following prompt:

```
[local]host_name(config-ss7-rd-ss7rd_id-ps-id-peer-server_id)#
```



## Important

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

- [do show](#), on page 1
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- [self-point-code](#), on page 6

## 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.




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**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.
```

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## end

Exits the configuration mode and returns to the Exec mode.

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**Product**

All

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**Privilege**

Security Administrator, Administrator

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**Syntax Description**

**end**

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**Usage Guidelines**

Change the mode back to the Exec mode.

## exit

Exits the configuration mode and returns to the Global configuration mode.

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**Product**

All

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**Privilege**

Security Administrator, Administrator

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**Syntax Description**

**exit**

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**Usage Guidelines**

Return to the Global configuration mode.

## mode

Configures the operational mode of the peer-server.




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**Important**

In Release 20 and later, HNBGW is not supported. This command must not be used for HNBGW in Release 20 and later. For more information, contact your Cisco account representative.

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**Product**

SGSN

HNB-GW

<b>Privilege</b>	Security Administrator, Administrator
<b>Command Modes</b>	Exec > Global Configuration > SS7 Routing Domain Configuration > Peer-Server Configuration <b>configure &gt; ss7-routing-domain rd_id variant variant_type &gt; peer-server id server_id</b> Entering the above command sequence results in the following prompt: <pre>[local]host_name(config-ss7-rd-ss7rd_id-ps-id-peer-server_id)#</pre>
<b>Syntax Description</b>	<b>mode ( loadshare   standby )</b>  <b>loadshare</b> Sets the peer-server to load share. This is the default.  <b>standby</b> Sets the peer-server to be in standby mode.
<b>Usage Guidelines</b>	Configure the operational mode of the peer-server.  <b>Example</b> Configure the peer-server for standby mode. <b>mode standby</b>

## name

Defines the unique identification - the name - of the peer-server in the SS7 routing domain.



### Important

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<b>Product</b>	SGSN HNB-GW
<b>Privilege</b>	Security Administrator, Administrator
<b>Command Modes</b>	Exec > Global Configuration > SS7 Routing Domain Configuration > Peer-Server Configuration <b>configure &gt; ss7-routing-domain rd_id variant variant_type &gt; peer-server id server_id</b> Entering the above command sequence results in the following prompt: <pre>[local]host_name(config-ss7-rd-ss7rd_id-ps-id-peer-server_id)#</pre>
<b>Syntax Description</b>	<b>name name</b> <b>no name</b>

**no**

Removes the peer server's name from this configuration instance.

**name**

*name*: Must be a string of 1 to 64 alphanumeric characters to define a unique identification for the peer-server within the specific SS7 routing domain. Double quotes must be used to create a name that includes spaces.

**Usage Guidelines**

Create peer server names that are easy to remember and uniquely identify the PSP.

**Example**

Use this command to create an easily remembered alphanumeric name for the peer-server:

```
name "Berlin West"
```

## psp

Creates the peer-server-process (PSP) instance and enters the PSP configuration mode. See the PSP Configuration Mode chapter in this guide for information on the configuration commands.

**Important**

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**Important**

This command configures a mandatory parameter in the configuration of the peer server.

**Product**

SGSN  
HNB-GW

**Privilege**

Security Administrator, Administrator

**Command Modes**

Exec > Global Configuration > SS7 Routing Domain Configuration > Peer-Server Configuration

```
configure > ss7-routing-domain rd_id variant variant_type > peer-server id server_id
```

Entering the above command sequence results in the following prompt:

```
[local]host_name(config-ss7-rd-ss7rd_id-ps-id-peer-server_id)#
```

**Syntax Description**

```
[ no ] psp instance id
```

**no**

Removes the PSP instance from the peer server configuration.

***id***

Uniquely identifies the specific peer-server-process configuration.

In releases prior to 15.0, *id* must be an integer from 1 to 4.

In release 15.0, *id* must be an integer from 1 to 12.

In release 21.5, *id* must be an integer from 1 to 32.

**Usage Guidelines**

Use this command to define the peer-server-process (PSP) instance ID number for the SGSN configuration.

**Example**

Use this command to create instance #3 for the PSP configuration:

```
psp instance 3
```

## routing-context

Defines the ID of the routing context for the peer-server to use.

**Important**

In Release 20 and later, HNBGW is not supported. This command must not be used for HNBGW in Release 20 and later. For more information, contact your Cisco account representative.

**Important**

This command configures a mandatory parameter in the configuration of the peer server.

**Product**

SGSN

HNB-GW

**Privilege**

Security Administrator, Administrator

**Command Modes**

Exec > Global Configuration > SS7 Routing Domain Configuration > Peer-Server Configuration

```
configure > ss7-routing-domain rd_id variant variant_type > peer-server id server_id
```

Entering the above command sequence results in the following prompt:

```
[local]host_name(config-ss7-rd-ss7rd_id-ps-id-peer-server_id)#
```

**Syntax Description**

```
routing-context id
no routing-context
```

***id***

*id* Uniquely identifies a specific routing context for the peer-server-process to use. The Id must be an integer from 1 to 65535.

From release 17.0 onwards, the SGSN supports an integer of 0 to 4294967295 as a valid value for the routing-context ID in M3UA messages.

**no**

Removes the routing-context definition from the peer server configuration.

**Usage Guidelines**

Use this command to define routing contexts for the peer server.

**Example**

Define routing-context instance 15:

```
routing-context 15
```

## self-point-code

This command defines the point-code to identify the SGSN as a peer server.

**Important**

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**Product**

SGSN  
HNB-GW

**Privilege**

Security Administrator, Administrator

**Command Modes**

Exec > Global Configuration > SS7 Routing Domain Configuration > Peer-Server Configuration  
**configure > ss7-routing-domain rd\_id variant variant\_type > peer-server id server\_id**

Entering the above command sequence results in the following prompt:

```
[local]host_name(config-ss7-rd-ss7rd_id-ps-id-peer-server_id)#
```

**Syntax Description**

**self-point-code** *point-code*  
**no self-point-code**

**point-code**

Point-code is an SS7-type address for an element in the SS7 network. Point-codes must be defined in dotted-decimal format in a string of 1 to 11 digits. Options include:

- 0.0.1 to 7.255.7 for point-code in the ITU range.
- 0.0.1 to 255.255.255 for point-code in the ANSI range.
- 0.0.1 to 15.31.255 for point-code in the TTC Range.
- a string of 1 to 11 digits in dotted-decimal to represent a point-code in a different range.

**no**

Removes the self-point-code configuration for this linkset in the peer server.



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**Important**

Removing the self-point-code will result in the termination of all traffic on this link.

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**Usage Guidelines**

Use this command to define the point-code to identify the SGSN.

**Example**

Use the following command to remove the self-point-code definition from the peer-server configuration:

```
no self-point-code
```

self-point-code