



## Linkset Configuration Mode Commands

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### Command Modes

The Linkset configuration mode defines the MTP3 linkset parameters for a specific SS7 routing domain instance.

Exec > Global Configuration > SS7 Routing Domain Configuration > Linkset Configuration

**configure** > **ss7-routing-domain** *domain\_id* **variant** *var\_type* > **linkset id** *linkset\_id*

Entering the above command sequence results in the following prompt:

```
[local]host_name(config-ss7-rd-linkset-linkset_id)#
```



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### Important

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

- [adjacent-point-code](#), on page 1
- [do show](#), on page 2
- [end](#), on page 3
- [exit](#), on page 3
- [link](#), on page 3
- [self-point-code](#), on page 4

## adjacent-point-code

This command defines the point-code for the adjacent (next) network element in the SS7 network.

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### Product

SGSN

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### Privilege

Security Administrator, Administrator

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### Command Modes

Exec > Global Configuration > SS7 Routing Domain Configuration > Linkset Configuration

**configure** > **ss7-routing-domain** *domain\_id* **variant** *var\_type* > **linkset id** *linkset\_id*

Entering the above command sequence results in the following prompt:

```
[local]host_name(config-ss7-rd-linkset-linkset_id)#
```

**Syntax Description** `adjacent-point-code` *point-code*  
`no adjacent-point-code`

### point-code

Point-code is an SS7 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. Format 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 adjacent-point-code configuration for this linkset in the SS7 routing domain



### Important

Removing the linkset configuration will result in the termination of all of the links within the linkset.

### Usage Guidelines

Use this command to define the point-code for the adjacent element in the SS7 network.

### Example

```
adjacent-point-code 6.202.7
```

## 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.

## link

This command creates an MTP3 link configuration for the SS7 linkset and enters the Link configuration mode.

**Product**

SGSN

**Privilege**

Security Administrator, Administrator

**Command Modes**

Exec &gt; Global Configuration &gt; SS7 Routing Domain Configuration &gt; Linkset Configuration

**configure > ss7-routing-domain domain\_id variant var\_type > linkset id linkset\_id**

Entering the above command sequence results in the following prompt:

```
[local]host_name(config-ss7-rd-linkset-linkset_id)#
```

**Syntax Description**

```
link id id [ link-type [ atm-broadband | highspeed-narrowband |
low-speed-narrowband ]
no link id id
```

**no**

Disables the specified link configuration.



**Important** Removing the link configuration will result in the termination of traffic on the specified link.

#### **#\_octets**

Sets the number of octets for the length of the LSSU.

#### **id**

This number uniquely identifies the link in the linkset.

*id*: an integer between 1 and 16.

#### **link-type**

Identifies the signalling type for this link; options include:

- ATM broadband -- ATM AAL5 over an optical line card (OLC2)
- high speed-narrowband -- 64 kbps over a channelized optical line card (CLC2)
- low speed-narrowband -- 4.8 kbps over a channelized optical line card (CLC2)



**Important** Be default link-type is ATM-broadband. To support narrowband SS7, one of the other options must be set.

#### **Usage Guidelines**

Access the Link configuration mode to configure the parameters for the the link.

#### **Example**

Access configuration for link 4:

```
link id 4
```

## self-point-code

This command defines the SS7 network point-code to identify this SGSN.

#### **Product**

SGSN

#### **Privilege**

Security Administrator, Administrator

#### **Command Modes**

Exec > Global Configuration > SS7 Routing Domain Configuration > Linkset Configuration

```
configure > ss7-routing-domain domain_id variant var_type > linkset id linkset_id
```

Entering the above command sequence results in the following prompt:

```
[local] host_name (config-ss7-rd-linkset-linkset_id) #
```

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**Syntax Description**

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

***point-code***

Point-code is an SS7 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. Format 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 SS7 routing domain.



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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 SS7 point-code to identify this system.

**Example**

```
self-point-code 6.192.7
```

self-point-code