



## 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).

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# 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)#
```

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**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




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**Important**

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

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**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.

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**Product**

All

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**Privilege**

Security Administrator, Administrator

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**Syntax Description**

**do show**

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**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 current 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** Use this command to return to the Exec mode.

# exit

Exits the current mode and returns to the parent 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**

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.

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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)#
```

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**Syntax Description**

**link id** *id* [ **link-type** [ **atm-broadband** | **highspeed-narrowband** | **lowspeed-narrowband** ]  
**no link id** *id*

**no**

Disables the specified link configuration.




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**Important**

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

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**#\_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)




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**Important**

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

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**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.

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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**

**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
```