

Linkset Configuration Mode Commands

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`*`)#`

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

Important For information on common commands available in this configuration mode, refer to the Common Commands chapter.

- adjacent-point-code, on page 1
- link, on page 2
- self-point-code, on page 3

adjacent-point-code

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

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`*`)#`

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*

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 > 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

link id *id* **[link-type [atm-broadband | highspeed-narrowband | lowspeed-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)#
```

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.



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

Usage Guidelines

Use this command to define the SS7 point-code to identify this system.

Example

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