

Linkset Management Commands

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You can manage Linksets using the `linkset` command. It allows you to perform the following operations:

- create linkset
- delete linkset
- activate linkset
- deactivate linkset
- create link
- delete link
- activate link
- deactivate link
- list state of linksets and present links

Create Linkset

Linkset can be created by issuing the `linkset` command with following structure:

```
linkset create <linkset-type> opc <point-code> apc <point-code> ni <network-id>
<linkset-name>
```

or in case of dialogic:

```
linkset create dialogic opc <point-code> apc <point-code> ni <network-id> srcmod <src-
mode> destmod <dest-mode> <linkset-name>
```

or in case of M3UA:

```
linkset create m3ua opc <point-code> apc <point-code> ni <network-id> as <as-name>
<linkset-name>
```

Where:

linkset-type

refers to type of linkset to be created, ie. `dahdi`, `dialogic` or `m3ua`. Correct values depend on which linkset factories have been deployed.

point-code

is simply `MTP` point - either local(`opc`) or remote(`dpc`)

ni

is simply network identifier. It can have following values:

linkset-name

simple string name, which identifies linkset

as-name

Name of AS that M3UALinkset wraps. Make sure that AS is already created as explained in [\[shell_m3ua_as_side_create\]](#)

Example 1. Linkset creation

```
mobicents(10.65.208.215:3435)>linkset create dahdi opc 1 apc 2 ni 0 linkset1
LinkSet successfully added
mobicents(10.65.208.215:3435)>linkset create dialogic opc 3 apc 4 ni 3 srcmod 1
destmod 2 linkset2
LinkSet successfully added
```

Remove Linkset

Linkset can be deleted by issuing command with following structure:

```
linkset delete <linkset-name>
```

Where:

linkset-name

is name set during link creation

Example 2. Linkset Removal

```
mobicents(10.65.208.215:3435)>linkset delete linkset1
LinkSet successfully deleted
```

Activate Linkset

Linkset can be activated by issuing command with following structure:

```
linkset activate <linkset-name>
```

Where:

linkset-name

is name set during link creation

Example 3. Linkset Activation

```
mobicents(10.65.208.215)>linkset activate linkset1  
LinkSet activated successfully
```

Deactivate Linkset

Linkset can be deactivated by issuing command with following structure:

```
linkset deactivate <linkset-name>
```

Where:

linkset-name

is name set during link creation

Example 4. Linkset Deactivation

```
mobicents(10.65.208.215)>linkset deactivate linkset1  
LinkSet deactivated successfully
```

Create Link

Link can be created in **Linkset** by issuing command with following structure:

```
linkset link create span <span-num> code <code-num> channel <channel-num> <linkset-name> <link-name>
```

Where:

span-num

integer number. It represents port number in card(indexed from 0).

code-num

link code(sls assigned to this link).

channel-num

integer number indicating time slot number(TDM time slot).

linkset-name

is name set during link creation.

link-name

name which identifies link in linkset.

.

```
mobicents(10.65.208.215:3435)>linkset link create span 1 code 1 channel 1 linkset1
link1
Link successfully added
```

Remove Link

Link can be removed from in **Linkset** by issuing command with following structure:

```
linkset link delete <linkset-name> <link-name>
```

Where:

linkset-name

is name set during link creation

link-name

name which identifies link in linkset

Example 5. Link Removal

```
mobicents(10.65.208.215:3435)>linkset link delete linkset1 link1
Link successfully deleted
```

Activate Link

Link can be activated by issuing command with following structure:

```
linkset link activate <linkset-name> <link-name>
```

Where:

linkset-name

is name set during link creation

link-name

name which identifies link in linkset

Example 6. Link Activation

```
mobicents(10.65.208.215:3435)>linkset link activate linkset1 link1
Link activated successfully
```

Deactivate Link

Link can be deactivated by issuing command with following structure:

```
linkset link deactivate <linkset-name> <link-name>
```

Where:

linkset-name

is name set during link creation

link-name

name which identifies link in linkset

Example 7. Link Deactivation

```
mobicents(10.65.208.215:3435)>linkset link deactivate linkset1 link1
Link deactivated successfully
```

Show status

Linkset and Link's status can be viewed by issuing command with following structure:

```
linkset show
```

Example 8. Linkset Status

```
mobicents(10.65.208.215:3435)>linkset show
linkset1      dahdi      opc=1      apc=2      ni=0      state=UNAVAILABLE
link1         span=1     channelId=1 code=1     state=UNAVAILABLE
```

The possible state of Linkset are

- UNAVAILABLE : Indicates the linkset does not have any “available” links and cannot transport traffic
- SHUTDOWN : Indicates the linkset has been shutdown in the configuration
- AVAILABLE : Indicates the linkset has at least one available link and can carry traffic

The possible state of Link are

- UNAVAILABLE : Indicates the link is not available to carry traffic. This can occur if the link is remotely or locally inhibited by a user. It can also be unavailable if MTP2 has not been able to successfully activate the link connection.
- SHUTDOWN : Indicates the link has been shutdown in the configuration.
- AVAILABLE : Indicates the link is active and able to transport traffic
- FAILED : A link is FAILED when the link is not shutdown but is unavailable at layer2 for some reason. For example Initial Alignment failed or the link test messages sent by MTP3 are not being acknowledged.