# 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 wrapps. 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 Deactivateion*

```
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 Deactivateion*

```
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.