



Cross Connect Command Reference

This chapter describes the commands to create cross connection between the controllers.

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xconnect

To create a cross connection between controllers, use the **xconnect** command in the global configuration mode. To delete a cross connect, use the **no xconnect** command in the global configuration mode.

xconnect *ID endpoint-1 ODUk R/S/I/P endpoint-2 ODUk R/S/I/P*

xconnect *ID endpoint-1 odu-grp-mp Group ID endpoint-2 Odu-grp-mp Group ID*

xconnect *ID endpoint-1 Odu-grp-mp Group ID endpoint-2 ODUk R/S/I/P*

no xconnect *ID*

| | | |
|---------------------------|--|---|
| Syntax Description | ID | Enter the cross connect ID. The valid range of cross connect ID is from 1 to 32655. |
| | endpoint-1 | Creates a cross connection from the endpoint of the first ODU controller. |
| | endpoint-2 | Creates a cross connection to the endpoint of the second ODU controller. |
| | R/S/I/P | Interface instance of the controller. |
| | Group ID | ID of the ODU group controller. |
| | ODUk | Name of the controller. |
| | Odu-grp-mp | Creates a cross connection from the ODU group controller. |
| Command Modes | Global configuration (config). | |
| Command History | Release | Modification |
| | 5.2.1 | This command was introduced. |
| Usage Guidelines | <p>You can create a cross connection between similar types of ODUk controllers. For example: ODU1 to ODU1. Two endpoints cannot be cross connected on the same port.</p> | |

Example

The following example shows how to create a cross connection between ODUk to ODUk .

```
Router (config)#xconnect 2 endpoint-1 ODU1 0/0/0/1 endpoint-2 ODU2 0/0/0/2
```

The following example shows how to create a cross connection between one ODU Group to another ODU Group.

```
Router (config)#xconnect 4 endpoint-1 odu-grp-mp 4 endpoint-2 odu-grp-mp 3
```

The following example shows how to create a cross connection between ODU Group to ODUk .

```
Router (config)#xconnect 5 endpoint-1 odU-grp-mp 4 endpoint-2 odU1 0/0/0/1
```

The following example shows how to delete a cross connection.

```
Router (config)# no xconnect 2
```

show xconnect

To show details of a cross connection, use the **show xconnect** command in the privileged mode. To show all the cross connections, use the **show xconnect all** command in the privileged mode.

show xconnect *ID*

show xconnect all

| | | |
|---------------------------|----------------|--|
| Syntax Description | ID | Displays the cross connection ID. The valid range of cross connection ID is from 1 to 32655. |
| | all | Displays all the cross connections. |
| Command Modes | Privileged (#) | |
| Command History | Release | Modification |
| | 5.2.1 | This command was introduced. |

Example

The following example shows how to display description of a cross connection using its ID.

```
Router # show xconnect 1
```

```
Thu Oct  3 12:27:19.409 IST
Xconnect information for static permanent connection
-----
Xconnect Id      Endpoint First      Endpoint Second      status
   1             ODU10_0_0_0        ODU10_0_0_1         DP programmed
```

The following example shows how to display all the cross connections.

```
Router # show xconnect all
```

```
Thu Oct  3 12:27:00.986 IST
Xconnect information for static permanent connection
-----
Xconnect Id      Endpoint First      Endpoint Second      status
   1             ODU10_0_0_0        ODU10_0_0_1         DP programmed
   7             ODU10_0_0_1        ODU40_0_0_4         DP not programmed
```