



# Cross Connect Command Reference

---

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

- [xconnect](#), on page 2
- [show xconnect](#), on page 4

# 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** 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.

## 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	
<i>ID</i>	Displays the cross connection ID. The valid range of cross connection ID is from 1 to 32655.
<b>all</b>	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
```