

# Cisco MC3810–IGX Interworking Commands

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This chapter describes the commands and command syntax used to configure Cisco MC3810–IGX Interworking on the Cisco MC3810.

The following are the Cisco MC3810–IGX Interworking commands:

- **connect**
- **connect voice**
- **encapsulation ftc-trunk**
- **ftc-trunk frame-relay-dlci**
- **ftc-trunk management-dlci**
- **ftc-trunk management-protocol**
- **ftc-trunk voice-dlci**

## connect

To configure a data connection that will travel over the FTC trunk to an IGX switch, use the **connect** global configuration command. To cancel the connection, use the **no** form of this command.

```
connect interface dlci dlci ftc-trunk connection-id cid
no connect interface dlci dlci ftc-trunk connection-id cid
```

### Syntax Description

<i>interface</i>	Interface on the Cisco MC3810 on which the connection is configured.
<i>dlci</i>	DLCI for the connection.
<i>ftc-trunk</i>	Cisco MC3810 interface on which the FTC trunk was configured.
<i>cid</i>	Connection ID.

### Defaults

No data connection over the FTC trunk is configured.

### Command Mode

Global configuration

### Command History

Release	Modification
12.0(2) T	This command was first introduced.

### Usage Guidelines

When configuring a connection for an IP routing data connection over an FTC trunk, specify **Switch0** for the local *interface* value.

When entering the DLCI value, do not use either of the following DLCIs:

- The DLCI that was assigned to the FTC management DLCI using the **ftc-trunk management-dlci** command
- The DLCI that was assigned to the FTC Frame Relay DLCI using the **ftc-trunk frame-relay-dlci** command.

### Examples

The following example establishes a data connection on serial port 1:

```
connect Serial11 dlci 250 Serial0:0 connection-id 250
```

## Related Commands

<b>Command</b>	<b>Description</b>
<b>connect voice</b>	Configures a connection on the Cisco MC3810 between a voice dial peer and the FTC trunk.
<b>encapsulation ftc-trunk</b>	Enables FTC trunk encapsulation on a Cisco MC3810 serial interface.
<b>ftc-trunk frame-relay-dlci</b>	Maps the FTC Frame Relay DLCI to an existing Frame Relay DLCI for data traffic on the Cisco MC3810.
<b>ftc-trunk management-dlci</b>	Maps the FTC management DLCI to an existing Frame Relay DLCI for management traffic on the Cisco MC3810.
<b>ftc-trunk management-protocol</b>	Selects the mode on the Cisco MC3810 by which management frames are sent on the FTC trunk management DLCI.
<b>ftc-trunk voice-dlci</b>	Maps the FTC voice DLCI to an existing Frame Relay DLCI for voice traffic on the Cisco MC3810.

## connect voice

To configure a connection on the Cisco MC3810 between a voice dial peer and the FTC trunk, use the **connect voice** global configuration command. To disable the connection, use the **no** form of this command.

**connect voice** *dial-peer-tag* *ftc-trunk* **connection-id** *cid*  
**no connect voice** *dial-peer-tag* *ftc-trunk* **connection-id** *cid*

### Syntax Description

<i>dial-peer-tag</i>	Voice dial-peer tag for the connection. Valid entries are 1 to 10000. The dial peer can be either a POTS dial peer or a VoFR dial peer.
<i>ftc-trunk</i>	Cisco MC3810 interface on which the FTC trunk was configured.
<b>connection-id</b> <i>cid</i>	Connection ID.

### Defaults

No voice connection over the FTC trunk is configured.

### Command Mode

Global configuration

### Command History

Release	Modification
12.0(2) T	This command was first introduced.

### Examples

The following example establishes a voice connection for dial peer 2 on serial port 0:

```
connect Voice2 Serial0:0 connection-id 50
```

## Related Commands

<b>Command</b>	<b>Description</b>
<b>connect</b>	Configures a data connection that will travel over the FTC trunk to an IGX switch.
<b>encapsulation ftc-trunk</b>	Enables FTC trunk encapsulation on a Cisco MC3810 serial interface.
<b>ftc-trunk frame-relay-dlci</b>	Maps the FTC Frame Relay DLCI to an existing Frame Relay DLCI for data traffic on the Cisco MC3810.
<b>ftc-trunk management-dlci</b>	Maps the FTC management DLCI to an existing Frame Relay DLCI for management traffic on the Cisco MC3810.
<b>ftc-trunk management-protocol</b>	Selects the mode on the Cisco MC3810 by which management frames are sent on the FTC trunk management DLCI.
<b>ftc-trunk voice-dlci</b>	Maps the FTC voice DLCI to an existing Frame Relay DLCI for voice traffic on the Cisco MC3810.

## encapsulation ftc-trunk

To enable FTC trunk encapsulation on a serial interface on the Cisco MC3810, use the **encapsulation ftc-trunk** interface configuration command. To disable FTC trunk encapsulation, use the **no** form of this command.

**encapsulation ftc-trunk**  
**no encapsulation ftc-trunk**

### Syntax Description

This command has no keywords or arguments.

### Defaults

FTC trunk encapsulation is not enabled.

### Command Mode

Interface configuration.

### Command History

Release	Modification
12.0(2) T	This command was first introduced.

### Examples

To configure FTC trunk encapsulation on serial interface 1 on the Cisco MC3810, enter the following commands:

```
interface serial 1
 encapsulation ftc-trunk
```

## Related Commands

<b>Command</b>	<b>Description</b>
<b>connect</b>	Configures a data connection that will travel over the FTC trunk to an IGX switch.
<b>connect voice</b>	Configures a connection on the Cisco MC3810 between a voice dial peer and the FTC trunk.
<b>ftc-trunk frame-relay-dlci</b>	Maps the FTC Frame Relay DLCI to an existing Frame Relay DLCI for data traffic on the Cisco MC3810.
<b>ftc-trunk management-dlci</b>	Maps the FTC management DLCI to an existing Frame Relay DLCI for management traffic on the Cisco MC3810.
<b>ftc-trunk management-protocol</b>	Selects the mode on the Cisco MC3810 by which management frames are sent on the FTC trunk management DLCI.
<b>ftc-trunk voice-dlci</b>	Maps the FTC voice DLCI to an existing Frame Relay DLCI for voice traffic on the Cisco MC3810.

## ftc-trunk frame-relay-dlci

To map the FTC Frame Relay DLCI to an existing Frame Relay DLCI for data traffic on the Cisco MC3810, use the **ftc-trunk frame-relay-dlci** interface configuration command. To remove the FTC Frame Relay DLCI from the interface, use the **no** form of this command.

```
ftc-trunk frame-relay-dlci dlci [remote-frame-relay-dlci dlci]  
no ftc-trunk frame-relay-dlci dlci [remote-frame-relay-dlci dlci]
```

### Syntax Description

*dlci* Specifies the Frame Relay DLCI for the IGX switch.

**remote-frame-relay-dlci** *dlci* (Optional) Specifies the remote Frame Relay DLCI if there is a public Frame Relay cloud between the Cisco MC3810 FTC port and the IGX FTM port. Enter this option only if the local DLCI and the remote DLCI are not the same.

### Defaults

No FTC trunk Frame Relay DLCI is configured.

### Command Mode

Interface configuration

### Command History

Release	Modification
12.0(2) T	This command was first introduced.

### Usage Guidelines

Do not enter the same DLCI that was assigned to the FTC management DLCI using the **ftc-trunk management-dlci** command.

### Examples

The following example configures DLCI 200 as the FTC trunk Frame Relay DLCI:

```
interface serial 1  
  ftc-trunk frame-relay-dlci 200
```

## Related Commands

<b>Command</b>	<b>Description</b>
<b>connect</b>	Configures a data connection that will travel over the FTC trunk to an IGX switch.
<b>connect voice</b>	Configures a connection on the Cisco MC3810 between a voice dial peer and the FTC trunk.
<b>encapsulation ftc-trunk</b>	Enables FTC trunk encapsulation on a Cisco MC3810 serial interface.
<b>ftc-trunk management-dlci</b>	Maps the FTC management DLCI to an existing Frame Relay DLCI for management traffic on the Cisco MC3810.
<b>ftc-trunk management-protocol</b>	Selects the mode on the Cisco MC3810 by which management frames are sent on the FTC trunk management DLCI.
<b>ftc-trunk voice-dlci</b>	Maps the FTC voice DLCI to an existing Frame Relay DLCI for voice traffic on the Cisco MC3810.

## ftc-trunk management-dlci

To map the FTC management DLCI to an existing Frame Relay DLCI for management traffic on the Cisco MC3810, use the **ftc-trunk management-dlci** interface configuration command. To remove the FTC management DLCI from the interface, use the **no** form of this command.

```
ftc-trunk management-dlci dlci [remote-management-dlci dlci]  
no ftc-trunk management-dlci dlci [remote-management-dlci dlci]
```

### Syntax Description

<i>dlci</i>	Specifies the Frame Relay DLCI for the IGX switch.
<b>remote-management-dlci</b> <i>dlci</i>	(Optional) Specifies the remote management DLCI if there is a public Frame Relay cloud between the Cisco MC3810 FTC port and the IGX FTM port. Enter this option only if the local DLCI and the remote DLCI are not the same.

### Defaults

No FTC trunk management DLCI is configured.

### Command Mode

Interface configuration

### Command History

Release	Modification
12.0(2) T	This command was first introduced.

### Usage Guidelines

The DLCI (or the remote DLCI if configured) must match the DLCI on the IGX switch configured using the IGX **addad** command.

### Examples

The following example configures DLCI 100 as the FTC trunk management DLCI:

```
interface serial 1  
  encapsulation ftc-trunk  
  ftc-trunk management-dlci 100
```

## Related Commands

<b>Command</b>	<b>Description</b>
<b>connect</b>	Configures a data connection that will travel over the FTC trunk to an IGX switch.
<b>connect voice</b>	Configures a connection on the Cisco MC3810 between a voice dial peer and the FTC trunk.
<b>encapsulation ftc-trunk</b>	Enables FTC trunk encapsulation on a Cisco MC3810 serial interface.
<b>ftc-trunk frame-relay-dlci</b>	Maps the FTC Frame Relay DLCI to an existing Frame Relay DLCI for data traffic on the Cisco MC3810.
<b>ftc-trunk management-protocol</b>	Selects the mode on the Cisco MC3810 by which management frames are sent on the FTC trunk management DLCI.
<b>ftc-trunk voice-dlci</b>	Maps the FTC voice DLCI to an existing Frame Relay DLCI for voice traffic on the Cisco MC3810.

## ftc-trunk management-protocol

To select the mode on the Cisco MC3810 by which management frames are sent on the FTC trunk management DLCI, use the **ftc-management-protocol** interface configuration command. To restore the default value, use the **no** form of this command.

```
ftc-trunk management-protocol {normal | inverted}  
no ftc-trunk management-protocol {normal | inverted}
```

### Syntax Description

<b>normal</b>	Normal mode.
<b>inverted</b>	Inverted mode.

### Defaults

Normal mode is enabled.

### Command Mode

Interface configuration

### Command History

Release	Modification
12.0(2) T	This command was first introduced.

### Usage Guidelines

Use **normal** mode when the Cisco MC3810 is connected directly to the IGX switch. When two Cisco MC3810 concentrators are connected back-to-back, use **inverted** mode on one concentrator and **normal** mode on the other concentrator.

This command is available only when the **ftc-trunk management-dlci** command is configured.

### Examples

The following example configures the FTC trunk management protocol to normal mode:

```
interface serial 1  
  encapsulation ftc-trunk  
  ftc-trunk management-dlci 100  
  ftc-trunk management-protocol normal
```

## Related Commands

<b>Command</b>	<b>Description</b>
<b>connect</b>	Configures a data connection that will travel over the FTC trunk to an IGX switch.
<b>connect voice</b>	Configures a connection on the Cisco MC3810 between a voice dial peer and the FTC trunk.
<b>encapsulation ftc-trunk</b>	Enables FTC trunk encapsulation on a Cisco MC3810 serial interface.
<b>ftc-trunk frame-relay-dlci</b>	Maps the FTC Frame Relay DLCI to an existing Frame Relay DLCI for data traffic on the Cisco MC3810.
<b>ftc-trunk management-dlci</b>	Maps the FTC management DLCI to an existing Frame Relay DLCI for management traffic on the Cisco MC3810.
<b>ftc-trunk voice-dlci</b>	Maps the FTC voice DLCI to an existing Frame Relay DLCI for voice traffic on the Cisco MC3810.

## ftc-trunk voice-dlci

To map the FTC voice DLCI to an existing Frame Relay DLCI for voice traffic on the Cisco MC3810, use the **ftc-trunk voice-dlci** interface configuration command. To remove the FTC voice DLCI from the interface, use the **no** form of this command.

```
ftc-trunk voice-dlci dlci [remote-voice-dlci dlci]  
no ftc-trunk voice-dlci dlci [remote-voice-dlci dlci]
```

### Syntax Description

<i>dlci</i>	Specifies the Frame Relay DLCI for the IGX switch.
<b>remote-voice-dlci</b> <i>dlci</i>	(Optional) Specifies the remote voice DLCI if there is a public Frame Relay cloud between the Cisco MC3810 FTC port and the IGX FTM port. Enter this option only if the local DLCI and the remote DLCI are not the same.

### Defaults

No FTC trunk voice DLCI is configured.

### Command Mode

Interface configuration

### Command History

Release	Modification
12.0(2) T	This command was first introduced.

### Usage Guidelines

Do not enter the same DLCI that was assigned to the FTC management DLCI using the **ftc-trunk management-dlci** command.

### Examples

The following example configures the FTC trunk voice DLCI:

```
interface serial 1  
  ftc-trunk voice-dlci 100
```

## Related Commands

Command	Description
<b>connect</b>	Configures a data connection that will travel over the FTC trunk to an IGX switch.
<b>connect voice</b>	Configures a connection on the Cisco MC3810 between a voice dial peer and the FTC trunk.
<b>encapsulation ftc-trunk</b>	Enables FTC trunk encapsulation on a Cisco MC3810 serial interface.
<b>ftc-trunk frame-relay-dlci</b>	Maps the FTC Frame Relay DLCI to an existing Frame Relay DLCI for data traffic on the Cisco MC3810.
<b>ftc-trunk management-dlci</b>	Maps the FTC management DLCI to an existing Frame Relay DLCI for management traffic on the Cisco MC3810.
<b>ftc-trunk management-protocol</b>	Selects the mode on the Cisco MC3810 by which management frames are sent on the FTC trunk management DLCI.

