



# X.25 on ISDN Commands

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This chapter describes the commands specific to configuring X.25 on an ISDN BRI D channel.

For ISDN BRI commands, see the “ISDN Basic Rate Service Setup Commands” chapter in this manual. For the X.25 commands used to complete the configuration, see the “X.25 and LAPB Commands” chapter in the *Wide-Area Networking Command Reference*.

For information about the configuration tasks, see the “Configuring X.25 on ISDN” chapter of the *Dial Solutions Configuration Guide*.

## interface bri

To configure a Basic Rate Interface (BRI) interface and enter interface configuration mode, use the **interface bri** global configuration command.

```
interface bri number
interface bri slot/port (Cisco 7500 series)
```

To configure a BRI subinterface only, use the following form of the **interface bri** global configuration command:

```
interface bri number.subinterface-number [multipoint | point-to-point]
interface bri slot/port.subinterface-number [multipoint | point-to-point] (Cisco 7500 series)
```

To specify the BRI interface that is created by enabling X.25 on a specified ISDN BRI interface, use the **interface bri** command with a subinterface 0 specification:

```
interface bri number:0
interface bri slot/port:0 (Cisco 7200 series)
```

### Syntax Description

<i>number</i>	Port, connector, or interface card number. The numbers are assigned at the factory at the time of installation or when added to a system, and can be displayed with the <b>show interfaces</b> command.
<i>slot/port</i>	On the Cisco 7200 series, slot location and port number of the interface.
<i>.subinterface-number</i>	Subinterface number in the range 1 to 4294967293. The <i>number</i> that precedes the period (.) must match the <i>number</i> this subinterface belongs to.
<b>multipoint</b>   <b>point-to-point</b>	(Optional) Specifies a multipoint or point-to-point subinterface. The default is <b>multipoint</b> .
<b>:0</b>	The subinterface created by applying the <b>isdn x25 static-tei</b> and the <b>isdn x25 dchannel</b> commands to the specified BRI interface. This interface must be configured for X.25.

### Default

The default mode for subinterfaces is multipoint.

### Command Mode

Global configuration

### Usage Guidelines

This command first appeared in Cisco IOS Release 10.3. The capability to carry X.25 traffic on the D channel was added in Cisco IOS Release 11.2 F.

This command was modified in Cisco IOS Release 11.2 P to include slot/port syntax for the PA-8B-ST and PA-4B-U port adapters on Cisco 7200 series routers.

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Subinterfaces can be configured to support partially meshed Frame Relay networks. (Refer to the “Configuring Frame Relay” chapter in the *Wide-Area Networking Configuration Guide*.)

### Example

The following example creates a BRI 0:0 interface for X.25 traffic over the D channel and then configures the new interface to carry X.25 traffic:

```
interface bri0
  isdn x25 dchannel
  isdn x25 static-tei 8
!
interface bri0:0
  ip address 10.1.1.2 255.255.255.0
  x25 address 31107000000100
  x25 htc 1
  x25 suppress-calling-address
  x25 facility window-size 2 2
  x25 facility packet-size 256 256
  x25 facility throughput 9600 9600
  x25 map ip 10.1.1.3 31107000000200
```

### Related Commands

You can use the master indexes or search online to find documentation of related commands.

**dialer map**  
**dialer-group**  
**encapsulation ppp**  
**isdn spid1**  
**isdn spid2**  
**ppp authentication chap**  
**ppp authentication pap**  
**show interfaces bri**

## isdn x25 dchannel

To create a configurable interface for X.25 traffic over the ISDN D channel, use the **isdn x25 dchannel** interface configuration command. To remove the interface, use the **no** form of this command.

```
isdn x25 dchannel  
no isdn x25 dchannel
```

### Syntax Description

This command has no arguments or keywords.

### Default

Disabled

### Command Mode

Interface configuration

### Usage Guidelines

This command first appeared in Cisco IOS Release 11.2 F.

This command creates a new, configurable interface, which can be specified as **interface brix:0** in commands, where *x* is the original BRI interface number.

For example, on a Cisco 4500 router with an MBRI, if the **isdn x25 dchannel** command is configured on bri5, the new interface is bri5:0 and can be used for configuring the other parameters for X.25 over the D channel. These parameters include the addresses, the map statements, and others.

To display the new interface, use the **show running config** command.

### Example

The following example creates interface bri 1:0 and configures it for X.25 over the ISDN D channel. This example uses dynamic TEIs, not a static TEI.

```
interface bri1  
  isdn x25 dchannel  
!  
interface bri1:0  
  ip address 10.1.1.2 255.255.255.0  
  x25 address 31107000000100  
  x25 htc 1  
  x25 suppress-calling-address  
  x25 facility window-size 2 2  
  x25 facility packet-size 256 256  
  x25 facility throughput 9600 9600  
  x25 map ip 10.1.1.3 31107000000200  
  x25 map ip 10.1.1.4 31107000000800
```

### Related Commands

You can use the master indexes or search online to find documentation of related commands.

### **interface bri**

## isdn x25 static-tei

To configure a static ISDN Layer 2 terminal endpoint identifier (TEI) for X.25 over the ISDN D channel, use the **isdn x25 static-tei** interface configuration command. Use the **no** form of this command if dynamic TEIs will be used on the interface that is to carry X.25 traffic over the D channel.

```
isdn x25 static-tei tei-number
```

### Syntax Description

*tei-number* Terminal endpoint identifier, in the range 0 to 63.

### Default

Disabled

### Command Mode

Interface configuration

### Usage Guidelines

This command first appeared in Cisco IOS Release 11.2 F.

This command applies to ISDN BRI interfaces only. Only one static TEI is allowed per BRI interface. If a second static TEI is configured, the first static TEI is overwritten.

Some switches require a static TEI be used for X.25 over the ISDN D channel.

When the **isdn x25 dchannel** command is invoked without the **isdn x25 static-tei** command, a dynamic TEI is chosen.

### Examples

The following example creates static TEI 8 on the X.25-over-ISDN-D channel:

```
interface bri0
  isdn x25 dchannel
  isdn x25 static-tei 8
```

Because the **isdn x25 static-tei** command is missing, the following example configuration sets dynamic TEIs for the ISDN channel:

```
interface bri0
  isdn x25 dchannel
```

### Related Commands

You can use the master indexes or search online to find documentation of related commands.

```
interface bri  
isdn x25 dchannel
```

