



Configuring X25 Generic Interface

bintec Dm773-I

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Table of Contents

I	Related Documents	1
Chapter 1	Configuring Generic X25 interface	2
1.1	Introduction	2
1.2	Creating the Generic X25 Interface	2
1.3	Configuring the Generic X25 Interface	2
1.3.1	BASE-INTERFACE	3
1.3.2	X25	4
1.3.3	EXIT	4
Chapter 2	Monitoring Generic X25 Interface	5
2.1	Generic X25 Interface Statistics	5
2.2	Monitoring the Generic X25 Interface	5
2.2.1	Accessing the Generic X25 monitoring prompt	5
2.2.2	Generic X25 monitoring commands	5
Chapter 3	Generic X25 Interface Configuration - Example	7
3.1	Generic X25 Interface configuration example	7

I Related Documents

bintec Dm707-I X25 Configuration

bintec Dm772-I Common Configurations for Interfaces

Chapter 1 Configuring Generic X25 interface

1.1 Introduction

This chapter describes the function of Generic X25 Interface.

The information given in this chapter is divided into the following sections:

- (1) Creating the Generic X25 Interface.
- (2) Configuring the Generic X25 Interface.

1.2 Creating the Generic X25 Interface

Aggregate a generic X25 interface by running the following command:

```
Config>add device x25 <identifier>
```

where **<identifier>** is a complete number (between 1 and 10000) used to differentiate and identify a specific interface from among all the existing interfaces of the same type.

Example:

```
Config>add device x25 ?
<1..10000>    Interface Id
Config>add device x25 1 ?
<cr>
Config>add device x25 1
Config>
```

Check that the new interface has been correctly added by listing the current interfaces present in the router (and verifying that the *Generic X25* interface has been generated):

```
Config>list devices

Interface      Connector      Type of interface
ethernet0/0    LAN1          Fast Ethernet interface
serial0/0      SERIAL0/WAN1  X25
serial0/1      SERIAL1/WAN2  X25
serial0/2      SERIAL2/WAN3  X25
bri0/0         BRI/ISDN1    ISDN Basic Rate Int
x25-node       ---           Router->Node
x25-1          ---           Generic X25
Config>
```

The Generic X25 Interface is one of the interfaces which acts as *user* for the synchronous base interfaces. This deals with a logical interface devoid of a physical connector.



Note

Please remember to save any changes made to the configuration and restart the router to activate said changes.

1.3 Configuring the Generic X25 Interface

Configures a Generic X25 interface: run **network <interface_name>** (general configuration menu), where **interface_name** is the name of the associated interface. For example, to access the x25-1 interface, enter:

```
Config>network x25-1

-- Generic X25 User Configuration --
x25-1 config>
```

There are certain commands that are common to all the device interfaces. These commands are described in the common interfaces configuration manual (bintec Dm772-I Common Configuration Interfaces).

The following options are presented in the Generic X25 interface configuration menu:

```
X25 config>?
base-interface      Access the base interface configuration menu
x25                  Set X25 parameters
exit
```

1.3.1 BASE-INTERFACE

Run **base-interface** to access the base interface configuration menu (a synchronous serial interface here). In the *x25-X Base IFC config>* configuration menu, parameters relative to the X25 link association, over a synchronous serial interface, are specified.

```
X25-X config>base-interface
-- Base Interface Configuration --
x25-X Base IFC config>
```

The following commands are available from the *x25-X Base IFC config>* prompt:

```
X25-X Base IFC config>?
base-interface      Specify a base interface
list                List current configuration
no                 Negates a command or sets its defaults
exit
```

1.3.1.1 BASE-INTERFACE

Run **base-interface** to specify the associated synchronous serial interface.

Syntax:

```
X25-X Base IFC config>base-interface <interface> link
X25-X Base IFC config>
```

Example:

```
X25-1 Base IFC config>base-interface ?
<interface>      Base interface
X25-1 Base IFC config>base-interface serial0/0 ?
link            Add this interface to the dial group
X25-1 Base IFC config>base-interface serial0/0 link
X25-1 Base IFC config>
```

1.3.1.2 LIST

List the options configured in the base interface section.

```
X25-1 Base IFC config>list
```

Base Interface	Profile Name	Base Circuit Id	Number of circuits
serial0/0 sync/0		1	1

```
x25-1 Base IFC config>
```

“**Base interface**” refers to the name of the base interface the X25 interface uses (here it must be the number of the associated synchronous serial interface). The text that appears after the interface name (sync/0) provides information on the interface type.

1.3.1.3 NO

1.3.1.3.1 NO BASE-INTERFACE

Run **no base-interface** to delete the current association with a base interface. You must specify the number of the serial interface as a parameter.

```
X25-1 Base IFC config>no ?
base-interface      Specify a base interface
```

```
x25-1 Base IFC config>no base-interface ?
<interface>    Base interface
x251 Base IFC config>no base-interface serial0/0 ?
<cr>
x25-1 Base IFC config>no base-interface serial0/0
x25-1 Base IFC config>
```

1.3.1.4 EXIT

Exits the *x25-X Base IFC config>* configuration prompt.

```
X25-X Base IFC config>exit
X25-X config>
```

1.3.2 X25

The **X25** command takes you to the X25 configuration prompt.

```
X25-X config>x25
-- X25 user configuration --
X25-X X25 config>
```

The commands to use in the X25 configuration menu are the same as those described for traditional X25 interfaces.

1.3.3 EXIT

Run **exit** to return to the *Config>* general configuration prompt.

Example:

```
X25-1 config>exit
Config>
```

Chapter 2 Monitoring Generic X25 Interface

2.1 Generic X25 Interface Statistics

Run **device** followed by interface name for the statistics you wish to view at the monitoring prompt (+).

```
+DEVICE X25-1

Interface      CSR    Vect   Auto-test valids   Auto-test failures   Maintenance failures
X25-1          0       0       0           1           1

+
```

2.2 Monitoring the Generic X25 Interface

2.2.1 Accessing the Generic X25 monitoring prompt

Accesses the generic X25 monitoring prompt. Run **network** followed by the interface name.

```
+NETWORK X25-1
-- X25-DIAL Console --
X25-X Dial+
```

2.2.2 Generic X25 monitoring commands

All Generic X25 interface monitoring commands must be entered at the prompt specified above, *x25-X Dial+*.

The available commands are described below.

2.2.2.1 ? (HELP)

Lists the available options from the menu you are in and the possible command options. The commands available in the corresponding console menu for monitoring Generic X25 are as follows:

```
X25-X Dial+?
BASE-INTERFACE
X25
EXIT
X25-X Dial+
```

2.2.2.2 BASE-INTERFACE

Run **base-interface** to access the monitoring prompt for the parameters related to the base interface.

```
X25-X Dial+BASE-INTERFACE
Base Interface Console
X25-X Base IFC+
```

The following commands are available at this level:

2.2.2.2.1 ? (HELP)

Lists the available commands.

```
X25-X Base IFC+?
LIST
EXIT
X25-X Base IFC+
```

2.2.2.2 LIST

Displays parameters relative to the base interface.

Example:

```
X25-X Base IFC+LIST
Destination address      :
Local address           :
Base interface          : serial2/0
Circuit id request     : 1
Dial circuit status    : OPEN
Circuit id assigned    : 1
X25-X Base IFC+
```

The meaning of the information displayed is as following:

Destination address, this is the link destination address i.e. the ISDN number called.

Local address, local address (Local ISDN number).

Base interface, base interface name or identification (BRI ISDN).

Circuit id request, the number of the channel you request X25 link establishment through.

Dial circuit status, current circuit status. The possible values are:

OPEN, the circuit is open (established).

CLOSED, the circuit is closed (not established).

DOWN, the BRI ISDN interface is not active.

Circuit id assigned, the circuit number (channel B) associated to the link.

2.2.2.3 EXIT

Exits the monitoring prompt for the parameters relative to the base interface.

```
X25-X Base IFC+EXIT
X25-X Dial+
```

2.2.3 X25

Through this command you can access the monitoring menu for X25 interface's own parameters. These are described in more detail in manual bintec Dm707-I X25 Configuration.

```
X25-X Dial+X25
X25+
```

2.2.4 EXIT

Run **exit** to exit the Generic X25 interface monitoring prompt and returns to the previous prompt.

```
X25-X Dial+EXIT
+
```

Chapter 3 Generic X25 Interface Configuration - Example

3.1 Generic X25 Interface configuration example

Supposing we have a scenario such as the one that is displayed in the below figure. This deals with accessing a HOST through an X25 circuit through the serial0/0 serial interface.

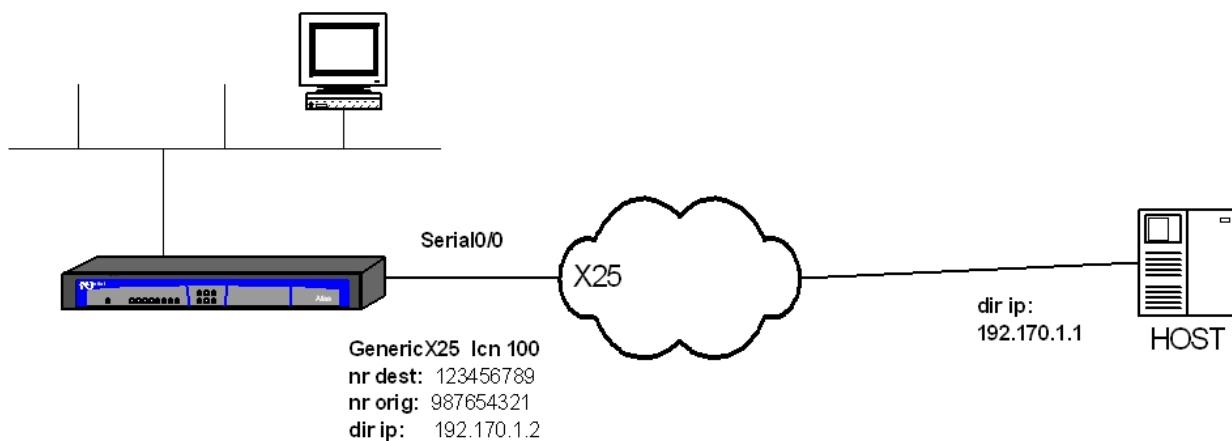


Fig. 1: Configuration example

To do this, simple add an X25 dial interface and associate it to the serial0/0 base interface.

This base interface must be configured as a synchronous interface.

The configuration should be exactly the same as that executed for a traditional serial line X25 interface, but using the new x25-x interface as a reference in the configuration for routing, functions, etc.

The resulting configuration is as follows:

```

log-command-errors
no configuration
add device x25 1
set data-link sync serial0/0
;
;
network serial0/0
; -- Interface Synchronous Serial Line. Configuration --
  speed 2048000
exit
;
;
network x25-node
; -- X25-node interface configuration --
  ip address 192.170.1.2 255.255.255.0
;
;
;
;
exit
;
network x25-1
; -- Generic X25 User Configuration --
  x25
; -- Generic X25 User Configuration --
    set interface-direction dce
    set na-calling 987654321
    set speed 2048000
  exit
;
base-interface
; -- Base Interface Configuration --
  base-interface serial0/0 link
  
```

```
;  
    exit  
;  
exit  
;  
node x25  
    address 192.170.1.1 na-value 123456789  
;  
    routing 1 port x25-1 na-value 123456789  
;  
    routing 2 port ip-router na-value 987654321  
;  
exit  
;  
;  
dump-command-errors  
end  
; --- end ---
```