



Teldat Router

XOT Protocol

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Chapter 1

Introduction



1. XOT Protocol Introduction

X.25 over TCP/IP (XOT)

The XOT Interface allows X.25 packets to be transported over TCP/IP networks. This demands a reliable link level to transfer the packets. This link is generally LAPB (or LAPD) protocol in packet switch networks. However, when it is a different type of network, e.g. Frame Relay switch networks the LAPB link must be substituted for a distinct reliable link. If the TCP/IP is chosen as a link layer, this permits the interconnection of terminals (which operate in X.25 over Frame Relay networks and local Ethernet, Token Ring networks etc.), as the packet sequences are converted into datagram sequences. These are forwarded and routed over all IP networks until they reach their destination where the X.25 packets are recovered.

This method of encapsulating X.25 over TCP is defined in the RFC (Request For Comments) 1613 standard with which the XOT is compatible.



Chapter 2 Configuration



1. Configuration Commands

The XOT Protocol configuration is accessed through the main menu in the following way:

1. At the (*) prompt, enter PROCESS 4 (or P 4).
2. At the configuration (Config>) prompt, enter NODE XOT.
3. At the XOT protocol configuration (XOT Config>) prompt, use the configuration commands described in this chapter to configure the XOT Protocol parameters.

In this chapter the XOT Protocol configuration commands are explained in detail. The letters written in **bold** indicate the minimum number of characters which must be entered in order to make the command operative.

Command	Function
? (HELP)	Lists all the available commands or options.
A DD	Add a new element to a table.
C HANGE	Change the value of a parameter.
D ELETE	Delete a facility or parameter.
D ISABLE	Disable a facility.
E NABLE	Enable a facility.
L IST	List the parameters.
R ESTORE	Restore the default values.
S ET	Set the value of a parameter.
E XIT	Return to Config> prompt.

XOT configuration commands

1.1. ? (HELP)

Displays a list of the available commands or their options.

Syntax:

```
XOT Config> ?
```



Example:

```
XOT Config> ?  
ADD  
CHANGE  
DELETE  
DISABLE  
ENABLE  
LIST  
RESTORE  
SET  
EXIT  
XOT Config>
```

1.2. ADD

Add a new element to a table such as a new NA assignment, an IP address, a new routing or a new facility.

Syntax:

```
XOT Config> ADD ?  
ADDRESS  
FACILITY  
ROUTING  
XOT Config>
```

a) ADD ADDRESS

Allows you to assign a determined NA to an IP address. The Nas can be generic. You can also set an alternative IP address which you can use to connect when the configured timeout lapses in this command.

Example:

```
XOT Config> ADD ADDRESS  
Value of NA? XXXXXXXXXXXXXXXXX  
IP Address [0.0.0.0]?1.1.1.1  
Alternate IP Address [0.0.0.0]? 1.1.1.2  
Timeout to alternate connection (sec.)[30]? 20  
XOT Config>
```

b) ADD FACILITY

Permits you to modify the call packets, changing the NAs or adding facilities.



Example:

```
XOT Config> ADD FACILITY
NA (digit or X)? XXXXXXXXXXXXXXXX
NA new (digit , X or S)? XXXXXXXXXXXXXXXX
Routing Port number   Ports(3-9) Router(2): 9
Priority[0-9](0): 2
Choose Window(Yes/No)(N)?
Choose packet length(Yes/No)(N)?
Reverse charge(Yes/No)(N)? y
Closed User Group(Yes/No)(N)? n
Network User Identifier:
User data: cc000000
XOT Config>
```

c) ADD ROUTING

Permits you to add a new routing i.e. assign NA to X.25 ports (or XOT).

Example:

```
Config> ADD ROUTING

Con   Ifc  Type of interface          CSR   CSR2  int
---   ---  ---
---   1   Router->Node              0     0     0
---   2   Node->Router              0     0     0
---   9   XOT                       0     0     0
ISDN  1   5 ISDN D channel          A000000  1B
ISDN  1   7 ISDN B channel          F001640  F000E00  9C
ISDN  2   6 ISDN D channel          A200000  1B
ISDN  2   8 ISDN B channel          F001660  F000F00  9B
LAN   0   Ethernet                  9000000  1C
WAN1  3   X25                       F001600  F000C00  9E
WAN2  4   X25                       F001620  F000D00  9D

Number of routing port   Ports(3-9) Router(2):
Write priority(0-9)[0]
Write routing(S,N,E)[N]
Value of NA? XXXXXXXXXXXXXXXX
Protocol identifier (hex): [0]?
XOT Config>
```

1.3. CHANGE

Syntax:

```
XOT Config> CHANGE ?
ADDRESS
XOT Config>
```

a) CHANGE ADDRESS

Permits you to change an assignment in the address table.



Example:

```
XOT Config> CHANGE ADDRESS
IP Address [0.0.0.0]?1.1.1.1
Value of NA?123456
XOT Config>
```

1.4. DELETE

Permits you to delete a parameter or an element from a table.

Syntax:

```
XOT Config> DELETE ?
ADDRESS
FACILITY
NA-CALLING
ROUTING
XOT Config>
```

a) DELETE ADDRESS

Permits you to delete an element from the address table.

Example:

```
XOT Config> DELETE ADDRESS
Value of NA? 1321231
XOT Config>
```

b) DELETE FACILITY

Permits you to delete an element from a facility table.

Example:

```
XOT Config> DELETE FACILITY
Entry number:1
num P Prt NA          NNA          Wed Wcr Lcd  Lcr  RC  CUG  NUI/UD

1  2  9  XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXX  -  -  -  -  YES---- /CC000000
Delete this entry?(Yes/No)(N)? y
Facility deleted
XOT Config>
```

c) DELETE NA-CALLING

Deletes the NA calling assigned to the XOT port.



Example:

```
XOT Config> DELETE NA-CALLING
Deleted NA-CALLING port 9
XOT Config>
```

d) DELETE ROUTING

Deletes a routing from the table.

Example:

```
XOT Config> DELETE ROUTING
Entry number:1
Entry      Port      priority  routing      NA      UD
1          2          2         N            1321321
Delete this entry?(Yes/No)(N)? y
Routing deleted
XOT Config>
```

1.5. DISABLE

Syntax:

```
XOT Config> DISABLE ?
EXT-PACKET-MODE
XOT Config>
```

a) DISABLE EXT-PACKET-MODE

Configures the port to work in 8 module.

Example:

```
XOT Config> DISABLE EXT-PACKET-MODE
XOT Config>
```

1.6. ENABLE

Syntax:

```
XOT Config> ENABLE ?
EXT-PACKET-MODE
XOT Config>
```

a) ENABLE EXT-PACKET-MODE

Configures the port to work in 128 module.

Example:



```
XOT Config> ENABLE EXT-PACKET-MODE
XOT Config>
```

1.7. LIST

List the different parameters.

Syntax:

```
XOT Config> LIST ?
ADDRESS
ALL
FACILITY
PORT
ROUTING
XOT Config>
```

a) LIST ADDRESS

Lists the address table.

Example:

```
XOT Config> LIST ADDRESS
X25 Address      IP Address      Altern. IP Addr.  Call Timeout.
      123456             1.1.1.1             1.1.1.2             30
XOT Config>
```

b) LIST ALL

Lists all the XOT configuration.

Example:

```
XOT Config> LIST ALL
Port information: 9(XOT)
Layer 3 Window: 2
Ext pkt mode: Disabled
Packet size: 128
Caller Number:
NA calling process: Outgoing calls
PVC low: 0
PVC high: 0
SVC low: 100
SVC high: 100
Channel Direction: DEC

X25 Address      IP Address      Altern. IP Addr.  Call Timeout.
      123456             1.1.1.1             1.1.1.2             30
```



```

Con      Ifc Type of interface          CSR      CSR2  int
---      --  -
---      1 Router->Node                0        0      0
---      2 Node->Router                0        0      0
---      9 XOT                        0        0      0
ISDN 1   5 ISDN D channel            A000000          1B
ISDN 1   7 ISDN B channel            F001640  F000E00  9C
ISDN 2   6 ISDN D channel            A200000          1B
ISDN 2   8 ISDN B channel            F001660  F000F00  9B
LAN      0 Ethernet                    9000000          1C
WAN1     3 X25                        F001600  F000C00  9E
WAN2     4 X25                        F001620  F000D00  9D

Entry    Port      priority  routing      NA      UD
1        3(X25)    0         N            XXXXXXXXXXXXXXXX

X.25 global data:
Max. datagram length: 1500
Backup recover attempt time: 0
Max dynamically added addresses: 10
Check input call: Enabled

Packet facilities:
num P Prt NA          NNA          Wed Wcr Lcd  Lcr  RC  CUG  NUI/UD
1   7  3  XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXX - - - - - NO ----
XOT Config>

```

c) LIST FACILITY

Lists the facilities table.

Example:

```

XOT Config> LIST FACILITY
Packet facilities:
num P Prt NA          NNA          Wed Wcr Lcd  Lcr  RC  CUG  NUI/UD
1   7  3  XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXX - - - - - NO ----
XOT Config>

```

d) LIST PORT

Lists the XOT port parameters.

Example:

```

XOT Config> LIST PORT
Port information: 9(XOT)
Layer 3 Window: 2
Ext pkt mode: Disabled
Packet size: 128
Caller Number:
NA calling process: Outgoing calls
PVC low: 0
PVC high: 0
SVC low: 100
SVC high: 100
Channel Direction: DEC
XOT Config>

```

e) LIST ROUTING

Lists the routing table.



Example:

```
XOT Config> LIST ROUTING

Con   Ifc  Type of interface          CSR   CSR2  int
---   ---  ---
---   1   Router->Node              0     0     0
---   2   Node->Router              0     0     0
---   9   XOT                       0     0     0
ISDN 1  5   ISDN D channel            A000000  0     1B
ISDN 1  7   ISDN B channel            F001640  F000E00 9C
ISDN 2  6   ISDN D channel            A200000  0     1B
ISDN 2  8   ISDN B channel            F001660  F000F00 9B
LAN     0   Ethernet                  9000000  0     1C
WAN1    3   X25                       F001600  F000C00 9E
WAN2    4   X25                       F001620  F000D00 9D

Entry   Port      priority  routing  NA      UD
  1      3(X25)    0         N        XXXXXXXXXXXXXXXX
```

1.8. RESTORE

Restores the default values.

Syntax:

```
XOT Config> RESTORE ?
ALL
PORT
XOT Config>
```

a) RESTORE ALL

Restore default values for all ports.

Example:

```
XOT Config> RESTORE ALL
Restored default values for all ports
XOT Config>
```

b) RESTORE PORT

Restore default values for the XOT port.

Example:

```
XOT Config> RESTORE PORT
Restored default values port number: 9
XOT Config>
```

1.9. SET

Assigns values to parameters.



Syntax:

```
XOT Config> SET ?  
CHANNEL-DIRECTION  
NA-CALLING  
PACKET-SIZE  
PACKET-WINDOW  
PROCESS-NA-CALLING  
SVC  
XOT Config>
```

a) SET CHANNEL-DIRECTION

Permits you to define if the outgoing calls SVCs are to be assigned in descending or ascending order.

Syntax:

```
Config> SET CHANNEL-DIRECTION ?  
DECREASING  
INCREASING  
XOT Config>
```

• SET CHANNEL-DIRECTION DECREASING

Assigns the channels in descending order beginning with the highest.

Example:

```
XOT Config> SET CHANNEL-DIRECTION DECREASING  
XOT Config>
```

• SET CHANNEL-DIRECTION INCREASING

Assigns the channels in ascending order beginning with the lowest.

Example:

```
XOT Config> SET CHANNEL-DIRECTION INCREASING  
XOT Config>
```

b) SET NA-CALLING

Permits you to configure the NA calling which is sent in the call request packets.

Example:



```
XOT Config> SET NA-CALLING
NA calling?123456
XOT Config>
```

c) SET PACKET-SIZE

Permits you to configure the packet size.

Example:

```
XOT Config> SET PACKET-SIZE
Packet size[1-4096][128]?
XOT Config>
```

d) SET PACKET-WINDOW

Permits you to configure the window size.

Example:

```
XOT Config> SET PACKET-WINDOW
Packet window(1-128)[2]
XOT Config>
```

e) SET PROCESS-NA-CALLING

This option allows you to add or suppress the NA of the calling packets processed by the **Teldat Router**. The values that can be given are:

A: Automatic. Automatic according to the interface. If it is DCE the NA is added to the calls coming in through the port. If the interface is DTE, the NA is added to the outgoing calls.

S: Suppress. Suppresses the NA in all the calls passing through the port.

O: Outgoing calls. Adds the NA to the outgoing calls.

I: Incoming calls. Adds the NA to the incoming calls.

T: Two-ways calls. Adds the NA to all calls.

Example:

```
XOT Config> SET PROCESS-NA-CALLING
Calling NA process [T,S,I,O,A]I:
XOT Config>
```

f) SET SVC

Configures the logical channels.



Syntax:

```
XOT Config> SET SVC ?  
LOW  
HIGH  
XOT Config>
```

- *SET SVC LOW*

Configures the lowest logical channel.

Example:

```
XOT Config> SET SVC LOW  
SVC low[0-4096][100]?1  
XOT Config>
```

- *SET SVC HIGH*

Configures the highest logical channel.

Example:

```
XOT Config> SET SVC HIGH  
SVC high[0-4096][100]?10  
XOT Config>
```

1.10. EXIT

Use the **EXIT** command to return to the previous prompt.

Syntax:

```
XOT Config> EXIT
```

Example:

```
XOT Config> EXIT  
Config>
```



Chapter 3 Monitoring



1. Monitoring Commands

The XOT Protocol monitoring is accessed through the main menu in the following way:

1. At the (*) prompt, enter PROCESS 3 (or P 3).
2. At the monitoring (+) prompt, enter NODE XOT.
3. At the XOT protocol monitoring (XOT>) prompt, use the monitoring commands described in this chapter to monitor the XOT Protocol parameters.

In this chapter the XOT Protocol monitoring commands are explained in detail. The letters written in **bold** indicate the minimum number of characters which must be entered in order to make the command operative.

Command	Function
? (HELP)	Lists the available commands or their options.
LIST	Lists the TCP servers state.
EXIT	Return to previous prompt.

XOT monitoring commands

1.1. ? (HELP)

Displays a list of available commands or options.

Syntax:

```
XOT> ?
```

Example:

```
XOT> ?  
LIST  
EXIT  
XOT>
```



1.2. LIST

Syntax:

```
XOT> LIST ?  
STATE  
XOT>
```

a) LIST STATE

Lists the TCP servers state.

Example:

```
XOT> LIST STATE  
  
Total Servers:      0  
Servers listening:  0  
Servers opened:    0  
Servers clients:   0  
XOT>
```

1.3. EXIT

Use the **EXIT** command to return to the previous prompt.

Syntax:

```
XOT> EXIT
```

Example:

```
XOT> EXIT  
+
```



Chapter 4

XOT Interfaces



1. Creation of XOT interfaces

Firstly it is necessary to create the XOT interface.

This is achieved through the configuration menu via the **ADD DEVICE XOT** command. This creates the interface and assigns an interface number.

```
*P 4
User configuration
Config> ADD DEVICE XOT
Added XOT interface with num: 9
Config>
```

A list of the interfaces configured in the **Teldat Router** can be seen by entering the **LIST DEVICES** command after the user configuration prompt *Config>*.

```
*P 4
User configuration
Config> LIST DEVICES
Con      Ifc  Type of interface      CSR   CSR2      int
---      --  ---
---      1   Router->Node           0     0         0
---      2   Node->Router           0     0         0
---      9   XOT                    0     0         0
LAN      0   Ethernet               9000000 0         1C
Line1    3   X25                    F001600 F000C00  9E
Line2    4   X25                    F001620 F000D00  9D
ISDN 1   5   X.25 D channel        A000000 0         1B
ISDN 1   7   X.25 B channel        F001640 F000E00  9C
ISDN 2   6   X.25 D channel        A200000 0         1B
ISDN 2   8   X.25 B channel        F001660 F000F00  9B
Config>
```

When you create an XOT interface, the routing is carried out towards it by using the node routing commands. It is only necessary to create one XOT interface as the X.25 calls are routed with an IP address.



2. XOT Interfaces Configuration

Before configuring the XOT protocol, it is advisable to have the corresponding part for the IP protocol configured so the addresses are assigned to the interfaces.

In order to achieve the XOT protocol configuration, the following operation must be carried out:

From the system console, type P 4 to access the configuration process.

```
*
*P 4
Config>
```

- XOT prompt access

From the configuration prompt, type **NODE XOT** to access the XOT port configuration.

Syntax:

```
Config> NODE XOT
```

Example:

```
Config> NODE XOT
XOT Config>
```

- To display the present values of the port you wish to use on screen. Type **LIST PORT** at the XOT prompt *XOT Config>*.

Syntax:

```
XOT Config > LIST PORT
```

Example:

```
XOT Config> LIST PORT
Port information: [port_number] (XOT)
Packet window: 2
Ext pkt mode: Disabled
Packet size: 128
Caller Number: 101010
NA caller process: Automatic
PVC low: 0
PVC high: 0
SVC low: 100
SVC high: 100
Channel Direction: DEC
XOT Config>
```



3. X.25 parameters configuration

The meaning of the commands and the parameters which modify them are the following:

Packet window

Specifies the maximum number of X.25 packets awaiting acknowledgment. This window can have values between 1 and 128. Default value is 2.

Syntax:

```
XOT Config> SET PACKET-WINDOW
```

Example:

```
XOT Config> SET PACKET-WINDOW
Packet window(1-128)[ current value]?window_size
XOT Config>
```

Extended Packet Mode

Specifies the PS field module for the X.25 network level. This is the module used to consecutively number the sent X.25 packets and can have a value between 8 and 128 corresponding to the Disable and Enable values in this parameter. The default value is 8 (Disabled).

Syntax:

```
XOT Config> ENABLE EXTENDED-PACKET-MODE
```

Example:

```
XOT Config> ENABLE EXTENDED-PACKET-MODE
XOT Config>
```

Or:

```
XOT Config> DISABLE EXTENDED-PACKET-MODE
XOT Config>
```

Packet size

Specifies the maximum length of an X.25 packet. The length is limited to 4.096 octets. The default value is set to 128 octets.

Syntax:

```
XOT Config> SET PACKET-SIZE
```



Example:

```
XOT Config> SET PACKET-SIZE
Packet size[1-4096][current value]?packet_size
XOT Config>
```

NA Calling

The NA (Network Address) is the X.25 caller address for the request call packets exiting through the port. This is independent from the NA which they were received with in the **Teldat Router**. This is not programmed by default.

Syntax:

```
XOT Config> SET NA-CALLING
```

Example:

```
XOT Config> SET NA-CALLING
NA calling?na_calling
XOT Config>
```

This number can consist of up to 15 ASCII characters.

In order to delete use the **DELETE NA-CALLING** command.

Process NA calling

This option allows you to add or suppress the NA of the call packets processed by the **Teldat Router**. The values that can be given are:

A: Automatic. Automatic according to the interface. If it is DCE the NA is added to the calls coming in through the port. If the interface is DTE, the NA is added to the outgoing calls.

S: Suppress. Suppresses the NA in all the calls passing through the port.

O: Outgoing calls. Adds the NA to the outgoing calls.

I: Incoming calls. Adds the NA to the incoming calls.

T: Two-ways calls. Adds the NA to all calls.

Syntax:

```
XOT Config> SET PROCESS-NA-CALLING
```

Example:

```
XOT Config> SET PROCESS-NA-CALLING
Calling NA process [T,S,I,O,A]I:S
XOT Config>
```



SVC low

Indicates the lowest SVC number that can be used in X.25 communications. The range of permitted values is from 0 to 4.096. The default value is 100.

Syntax:

```
XOT Config> SET SVC LOW
```

Example:

```
XOT Config> SET SVC LOW
SVC low [0-4096] [current value]?SVC_low
XOT Config>
```

SVC high

Indicates the highest SVC number that can be used in X.25 communications. The range of permitted values is from 0 to 4.096. The default value is 100.

Syntax:

```
XOT Config> SET SVC HIGH
```

Example:

```
XOT Config> SET SVC HIGH
SVC high [0-4096] [current value]?SVC_high
XOT Config>
```

The number of logical channels are only significant on an internal level and do not necessarily have anything to do with the X.25 ports. The important point is the total number of the logical channels which are configured as this determines the maximum number of connections.

Channel direction

Specifies if the logical channel numbers are used in ascending or descending order. The possible values are *INCREASING* and *DECREASING*. The default value is decreasing.

Syntax:

```
XOT Config> SET CHANNEL-DIRECTION INCREASING
```

Example:

```
XOT Config> SET CHANNEL-DIRECTION INCREASING
XOT Config>
```



Or:

```
XOT Config> SET CHANNEL-DIRECTION DECREASING
XOT Config>
```

3.1. Address assignment

The following commands are used to associate X.25 addresses to IP destination addresses.

Add address

Syntax:

```
XOT Config> ADD ADDRESS
```

Example:

```
XOT Config> ADD ADDRESS
Value of NA?9876541
IP Address [0.0.0.0]?192.168.6.22
Alternate IP Address [0.0.0.0]?192.168.6.23
Timeout to alternate connection (sec.)[30]?60
XOT Config>
```

List address

Syntax:

```
XOT Config> LIST ADDRESS
```

Example:

```
XOT Config> LIST ADDRESS
X.25 Address  IP Address      Alt. IP Address  Timeout cnx.
111111        192.168.5.21
9876541       192.168.6.22   192.168.6.23    60
XOT Config>
```

Delete address

Syntax:

```
XOT Config> DELETE ADDRESS
```

Example:

```
XOT Config> DELETE ADDRESS
Value of NA?9876541
XOT Config>LIST ADDRESS
X.25 Address  IP Address      Alt. IP Address  Timeout cnx.
111111        192.168.5.21
XOT Config>
```



In the examples given, the calls with NA 111111 were sent to the router with the following IP address 192.168.5.21.

It is unnecessary to add the addresses to the incoming calls.

If the alternative IP address is left as 0.0.0.0, the alternative IP connection feature is not used.

3.2. Liberation causes and diagnostics

Under the following circumstances, a call directed to an XOT interface is released.

Cause (hex)	Diagnostic (dec)	Motive
0D	120	A specific NA/addr has not been configured.
09	120	A specific IP address cannot be reached.
11	119	Timer period has finalized in the TCP connection. The remote stops answering TCP packets.
09	119	The remote has closed the TCP connection.

