

EARN Document

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The attached questionnaire has been received for EARN to complete.

To: IXI-CC  
From: IXI Project Team (MP)  
Date: 29 September 1989  
Subject: COSINE IXI Pilot Service  
X.25 Connection Questionnaire

Attached is the IXI X.25 Connection Questionnaire. The purpose of this questionnaire is to gather information regarding the private networks, and the directly connecting systems, to permit initial configuring of the IXI backbone and to commence the detailed planning for the commissioning phase. We will be following up directly with each network/site shortly after receipt of the completed questionnaires to finalize the schedules and acceptance testing requirements.

As promised at the IXI-CC meeting of 22 September, and as an aid to completing the questionnaire, also enclosed is a copy of the Technical Annex to the Contract for the Provision of the Pilot IXI Backbone Service. This document contains detailed information regarding the X.25 facilities that will be offered, and the addressing formats that will apply during the pilot period.

(Note that the list of access points as indicated in Article 2 is not current, and that the up-to-date information will be used in further planning with PTT Telecom.) The X.25 Recommendation document may also be useful in completing the questionnaire.

As agreed, and in light of the fact that the clock is now running on the 2-month preparatory phase, the questionnaires should be returned as soon as possible, but no later than October 15, 1989, to:

Maria Pallares  
c/o Systematik Associates  
Avenue Louise 251, Box 14  
B-1050 Brussels  
Belgium

If you have any questions regarding the completion of the questionnaire, please contact me either by telephone or fax:

Tel: +32 2 646.22.01  
Fax: +32 2 646.24.01

Thank you in advance for your quick response.

COSINE IXI PILOT SERVICE  
X.25 CONNECTION QUESTIONNAIRE

NETWORK

NAME: \_\_\_\_\_

1. NETWORK INFORMATION

Please complete this questionnaire once for each network connecting to IXI in your country. If you have any comments or open questions about the IXI connection, please attach a separate page.

1.1 Management contact

Name: \_\_\_\_\_  
Function: (if not IXI-CC member) \_\_\_\_\_  
Located at: \_\_\_\_\_  
- Country: \_\_\_\_\_  
- City: \_\_\_\_\_  
- Postal Code: \_\_\_\_\_  
- Address: \_\_\_\_\_  
\_\_\_\_\_

- Telephone: \_\_\_\_\_  
- Fax: \_\_\_\_\_  
- E-Mail: \_\_\_\_\_

1.2 Connection Date

Please indicate the date(s) by which you will be prepared to connect the access point(s) listed on the following pages to the IXI backbone? (by access point, if more than one)

\_\_\_\_\_  
\_\_\_\_\_

1.3 Addressing Information

Describe the address scheme of your network:  
(or attach separate description)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

What value of N do you require in the COSINE X.121 address format?

\_\_\_\_\_  
(Refer to Annex 2 of the contract for Pilot IXI Backbone.)

How many DTE's connected to your private network will have access to the IXI backbone during the Pilot period?

\_\_\_\_\_

#### 1.4 PSPDN Connection

Who in your country will coordinate the connection/authorization of users to IXI via PSPDN?

Name: \_\_\_\_\_

Function: \_\_\_\_\_

Telephone: \_\_\_\_\_

COSINE IXI PILOT SERVICE

#### X.25 CONNECTION QUESTIONNAIRE

NETWORK

NAME: \_\_\_\_\_

#### 1.5 X.2 Connection user facilities on a contractual basis (NOTE)

Unless otherwise indicated, please mark with an X those facilities which you wish to have available over the IXI backbone.

- 1 Extended packet sequence numbering (module 128)  
.....
- 2 Nonstandard default window sizes (1-127) Specify default  
.....  
3 size  
Nonstandard default packet sizes (16, 32, 64, 256, 512,  
.....  
4 1024, 2048, 4096) Specify default size  
Default throughput classes assignment 75, 150, 300, 600,  
.....
- 5 1200, 2400, 4800, 9600, 19200, 48000, 64000 Specify  
default  
.....  
Flow control parameter negotiation  
.....
- 6 Max. packet size: 128, 256, 512, 1024, 2048, 4096 Specify  
.....
- 7 Max. window size: 1-127 Specify  
.....

8	Throughput class negotiation
.....	
9	Packet retransmission
.....	
10	Incoming calls barred
.....	
11	Outgoing calls barred
.....	
12	One-way logical channel outgoing
.....	
13	One-way logical channel incoming
.....	
14	Closed user group
.....	
15	Closed user group with outgoing access
.....	
16	Closed user group with incoming access
.....	
17	Incoming calls barred within a closed user group
.....	
18	Outgoing calls barred within a closed user group
.....	
19	Bilateral closed user group
.....	
20	Bilateral closed user group with outgoing access
.....	
22	Reverse charging acceptance
.....	
23	Fast select acceptance
.....	
24	Charging information (segment count + call dur.)
.....	
26	Direct call (NUA address)
.....	
27	Hunt group (NUA address)
.....	
28	D-bit modification
.....	
29	Local charging prevention
.....	
30	Call redirection (NUA address)
.....	
31	Network user identification
.....	
	Extended frame sequence numbering
.....	
	RPOA selection

NOTE : The above mentioned facilities are only valid for the X.25-  
interface  
between the Private Network and the IXI-Network. This means  
that the  
above facilities will apply for all the DTE's connected to the  
Private  
Network.  
However it is possible to negotiate on a per call basis for  
those X.2  
facilities that are negotiable, unless otherwise provided by  
the  
Private Network. (Refer to Annex 2 of the contract for Pilot  
IXI  
Backbone.)

COSINE IXI PILOT SERVICE

X.25 CONNECTION QUESTIONNAIRE

NETWORK

NAME: \_\_\_\_\_

2. ACCESS POINT INFORMATION

2.1 Access Point Site \*

Located at: (institution)

- Country: \_\_\_\_\_
- City: \_\_\_\_\_
- Postal Code: \_\_\_\_\_
- Address: \_\_\_\_\_
- Room No: \_\_\_\_\_
- Telephone: \_\_\_\_\_
- Fax: \_\_\_\_\_

2.2 Access Point Contact  
(operational interface)  
Name: \_\_\_\_\_

Function: \_\_\_\_\_  
Located at: \_\_\_\_\_  
- City: \_\_\_\_\_  
- Postal Code: \_\_\_\_\_  
- Address: \_\_\_\_\_  
\_\_\_\_\_  
- Telephone: \_\_\_\_\_  
- Fax: \_\_\_\_\_  
- E-Mail: \_\_\_\_\_

### 2.3 Access Point Equipment

Product Make/Model of the DTE equipment directly connected to the  
Access

Point: \_\_\_\_\_

Is equipment certified for attachment to national X.25 network  
in your country?  
(Yes/No) \_\_\_\_\_

Is equipment certified by any country to your knowledge?  
(Yes/No) \_\_\_\_\_

If yes, which country? \_\_\_\_\_

Which X.25 version is used? (1980 or 1984) \_\_\_\_\_

### 2.4 Estimated Traffic

Indicate the anticipated traffic at this access point in data  
packets per  
second

- during a peak hour. \_\_\_\_\_

- during the average month. \_\_\_\_\_

\* If this network will be connected to the IXI backbone at multiple  
points,

please complete pages 3 and 4 of the questionnaire for each site.

COSINE IXI PILOT SERVICE

X.25 CONNECTION QUESTIONNAIRE

NETWORK

NAME: \_\_\_\_\_

## 2.5 SPECIFICATION OF LEVEL 1-3 PARAMETERS

### 2.5.1 Physical Level

- Physical interface: Circle one  
G.703/X.21/V.35/V.36/V.24,V.28
- No. of Active Links: 1
- Link Speed: 64 kbits/sec

### 2.5.2 Link Level

(See LAPB parameters in X.25 Rec.)

- Protocol: LAPB (single link)
- Modulo Circle one 8/128
- T1\* 150/..... msec
- T2\* (< T1) 0/..... msec
- T3 (idle channel timer) ..... sec
- T4 (unsolicited polling frequency) ..... msec
- N1 (maximum frame size) ..... bits (dep. on max  
packet siz  
e)
- N2\* 10/.....
- K\* 7/.....

\* Parameters marked with an asterisk will be set to the value indicated in the response column unless otherwise indicated.

### 2.5.3 Packet Level

(refer to X.25 Annex A)

- Logical channels .....  
(reserves for PVC up to LIC -1)
- LIC .....
- HIC .....
- LTC .....
- HTC .....
- LOC .....
- HOC .....

## 2.6 Commissioning Test System

Please provide the following information regarding a system located at the access point site that can be used to run backbone test and performance



monitoring programs during the commissioning phase of the project:

- DTE (private network address)
- system hardware (make/model no.)
- operating system (UNIX, VMS)
- operating system release level
- level of C compiler
- contact person

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Name:

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Function:

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Telephone:

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Fax:

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E-Mail:

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