

Temporary line UK to Amsterdam:
Installation 8 weeks
Maximum duration 1 month
Cost 750 UKL installation plus 518.66 UKL
Permanent line UK Amsterdam
Installation 19/20 weeks
Cost 750 UKL installation plus 6284 UKL per year
Installation free if line is kept for more than a year.
For comparison CERN line is about 8000 a year plus 16000 a year for
CERN end. Paul

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: EARN

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: J Striplin
Function: (if not IXI-CC Manager of EARN OSI centre member)
Located at: The Einstein Buliding
- Country: Holland
- City: Amsterdam
- Postal Code: Sloterdijh 1014 BA
- Address: The Einsteian Building
Kabelweg 21
Sloterdijh 1014 BA
Amsterdam
Holland
- Telephone: + 31 20 869591
- Fax: + 31 20
- E-Mail: NORIELLY@HASEOC (EARN)

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)

As soon as a line is provided

1.3 Addressing Information

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

X.25 with DNIC 2000, next 3 digits are ISO country code, next 5 digits define equipment, next 2 digits are an unpoliced subaddress.

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

7

(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? About 20

1.4 PSPDN Connection

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

Name: N O'Reilly
Function: Serior technical leader
Telephone: +31 20 869591

COSINE IXI PILOT SERVICE

X.25 CONNECTION QUESTIONNAIRE

NETWORK

NAME: EARN

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) |
| No..... | |
| 2 | Nonstandard default window sizes (1-127) Specify default |
| 2..... | size |
| 3 | Nonstandard default packet sizes (16, 32, 64, 256, 512, |
| No..... | 1024, 2048, 4096) Specify default size |
| 4 | Default throughput classes assignment 75, 150, 300, 600, |
| | 1200, 2400, 4800, 9600, 19200, 48000, 64000 Specify |
| 9600..... | default |
| 5 | Flow control parameter negotiation |
| Yes..... | |

6 Max. packet size: 128, 256, 512, 1024, 2048, 4096 Specify
 4096.....
 7 Max. window size: 1-127 Specify
 7.....
 8 Throughput class negotiation
 Yes.....
 9 Packet retransmission
 Yes.....
 10 Incoming calls barred
 No.....
 11 Outgoing calls barred
 No.....
 12 One-way logical channel outgoing
 No.....
 13 One-way logical channel incoming
 No.....
 14 Closed user group
 No.....
 15 Closed user group with outgoing access
 No.....
 16 Closed user group with incoming access
 No.....
 17 Incoming calls barred within a closed user group
 No.....
 18 Outgoing calls barred within a closed user group
 No.....
 19 Bilateral closed user group
 No.....
 20 Bilateral closed user group with outgoing access
 No.....
 21 Reverse charging acceptance
 No.....
 22 Fast select acceptance
 Yes.....
 23 Charging information (segment count + call dur.)
 Yes.....
 24 Direct call (NUA address)
 No.....
 25 Hunt group (NUA address)
 No.....
 26 D-bit modification
 No.....
 27 Local charging prevention
 No.....
 28 Call redirection (NUA address)
 No.....
 29 Network user identification
 No.....

30 Extended frame sequence numbering
No.....
31 RPOA selection
Yes.....

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: EARN

2. ACCESS POINT INFORMATION

2.1 Access Point Site *

Located at: (institution)	EARN EOC Centre
- Country:	Holland
- City:	Amsterdam
- Postal Code:	1014 BA
- Address:	The Einstein Building Kabelweg 21, Sloterdijk 1014 BA Amsterdam, Holland.
- Room No:	-
- Telephone:	+31 20 869591
- Fax:	+31 20 824772

2.2 Access Point Contact
(operational interface)

Name: N O'Reilly
Function: Senior technical leader
Located at:
- City: Amsterdam
- Postal Code: 1014 BA
- Address: The Einstein Building
Kabelweg 21, Sloterdijk 1014 BA
Amsterdam. Holland
- Telephone: +31 20 869591
- Fax: +31 20 824772
- E-Mail: NOREILLY@HASEOC (EARN)

2.3 Access Point Equipment

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

Point: Northern Telecom DPN100

Is equipment certified for attachment to national X.25 network
in your
country?

(Yes/No) Northern Telecom does not know

Is equipment certified by any country to your knowledge?

(Yes/No) Northern Telecom does not know

If yes, which country? _____

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

2.4 Estimated Traffic

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

- during a peak hour. Not known

- during the average month. Not known

* 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: EARN

2.5 SPECIFICATION OF LEVEL 1-3 PARAMETERS

2.5.1 Physical Level

- Physical interface:	Circle one	X.21 or V.35 or V.24
- No. of Active Links:		1
- Link Speed:		64 kbits/sec or 9.6 kbits/sec

2.5.2 Link Level

(See LAPB parameters in X.25 Rec.)

- Protocol:		LAPB (single link)
- Modulo	Circle one	8
- T1*		100..... msec
- T2* (< T1)		3..... msec
- T3 (idle channel timer)		4..... sec
- T4 (unsolicited polling frequency)	 msec

We have knowledge of what the T4 timer is. It does not appear in CCITT Red Book

- N1 (maximum frame size)		4096 +... 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		none
(reserves for PVC up to LIC -1)		
- LIC		none
- HIC		none
- LTC		1
- HTC		50

- LOC none
- HOC none

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)	200020000101
- system hardware (make/model no.)	VAX 3600
- operating system (UNIX, VMS)	VMS DV360S1-B3
- operating system release level	generic 25
- level of C compiler	None
- contact person	
Name:	N O'Reilly
Function:	Senior technical
laeder	
Telephone:	+31 20 869591
Fax:	+31 20 824772
E-Mail:	NOREILLY@HASEOC

(EARN)