

PHARE'94 - Initial Status Reports

- Bulgaria: [UNICOM-B](#)
- Czech Republic: [Cesnet](#)
- Estonia: [EEnet](#)
- Hungary: [Hungarnet](#)
- Latvia: [LATNET](#)
- Lithuania: [LITNET](#)
- Romania: [RNC-NET](#)
- Slovakia [SANET](#)

Contact information: Istvan.Tetenyi@ella.hu

[PHARE](#)

[January 1996]

Questionnaire of International router operation and installation

Initial status report

UNICOM-B research networking organisation

1. National and international interconnectivity

- Give your present and planned International interconnectivity in respect to the **PHARE** project.
- In respect to the PHARE project there is no present international connectivity.

From	To	speed kbit/ sec	status	Service Provider
Sofia	Amsterdam	2 x 64 kbps	planned	EuropaNET

- Specify the all **other** available international circuit capacity and the international service provider(s).

From	To	speed kbit/ sec	status	Service Provider
Sofia	Vienna	9.6 kbps	in operation	Ebone
Sofia	Vienna	64 kbps VSAT	in operation	Ebone
Blagoevgrad	Vienna	9.6 kbps	in operation	Ebone

- Give any **planned upgrades** and **available backup** options.

No line upgrades planned, no backup options available or planned in the near future.

- Please, provide one **schematic map** that shows your organizations national and international interconnectivity **respectively**. The map is to be included to ANNEX A.

2. International router

2.1 International router technical specification

- Please, provide a technical specification of the router you use as international router.

International router	specification
router type	Cisco
model	AGS+
manufacturer	Cisco
number of serial interfaces	6
number of ethernet interfaces	2
RAM memory	16 MB
software version used	10.0
flash EPROM	yes
available routing protocols	
line encapsulation protocols	
is tftp used for configuration	
is tftp used for software image load	
is IP accounting used	
is SNMP management used	
is UPS available ?	yes
is packet filtering available	yes

2.2 Router installation

- Where is your international router installed ? /Give precise address./

Centre of Informatics and Computing Technology (CICT),
 Bulgarian Academy of Science,
 Acad. G. Bonchev Str. 25-A
 BG-1113, Sofia
 Bulgaria

- Who has installed the router ?
-

Not yet installed, all the following statements are as planned:

vendor	
manufacturer	

research network organization	UNICOM-B
other, specify	

The installation should meet the overall requirements of all interested parties.

- State, that the installation follows:

general requirements	yes/ no
the vendor requirements concerning the product's installations	yes
the local PTT and/or Institute environment general requirements	yes
the country's general safety requirements	yes

Questionnaire of International router operation and installation

Initial status report

CESNET research networking organisation

I. National and international interconnectivity

- Give your present and planned International interconnectivity in respect to the **PHARE** project.

From	To	speed kbit/ sec	status	Service Provider
Prague	Amsterdam	512	present	Dante
		1024	planned	

- Specify the all **other** available international circuit capacity and the international service provider(s).

From	To	speed kbit/ sec	status	Service Provider
Prague	Vienna	512	present	EBONE
		1024	planned	

- Give any **planned upgrades** and **available backup** options.

XXXNET link to is to be upgraded from kbit/s capacity to

XXXNET has a mutual backup agreement with

CESNET - DANTE link to Amsterdam is to be upgraded from 512 kb/s capacity to 1024kb/s
CESNET - EBONE link to Vienna is to be upgraded from 512kb/s capacity to 1024kb/s

- Please, provide one **schematic map** that shows your organizations national and international interconnectivity **respectively**. The map is to be included to ANNEX A.

I. International router

A. International router technical specification

a) Please, provide a technical specification of the router you use as international router.

International router	specification
router type	CISCO 7010
model	7010
manufacturer	CISCO
number of serial interfaces	8
number of ethernet interfaces	6
RAM memory	64 MB
software version used	10.2(6)
flash EPROM	4 MB
available routing protocols	OSPF, BGP4
line encapsulation protocols	HDLC, PPP
is tftp used for configuration	Yes
is tftp used for software image load	Yes
is IP accounting used	Yes
is SNMP management used	Yes
is UPS available ?	Yes
is packet filtering available	Yes

A. Router installation

a) Where is your international router installed ? /Give precise address./

Czech Technical Univerzity
 computing centre
 Zikova 4
 166 35 Prague6
 The Czech Republic

.....

b) Who has installed the router ?

vendor	No
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manufacturer	No
research network organization	Yes
other, specify	No

The installation should meet the overall requirements of all interested parties.

a) State, that the installation follows:

general requirements	yes/ no
the vendor requirements concerning the product's installations	Yes
the local PTT and/or Institute environment general requirements	Yes
the country's general safety requirements	Yes

d) State that the installation follows the vendor's requirements in respect of:

vendor's requirements	yes/ no
general safety recommendations	Yes
the safety with electricity procedures	Yes
preventing electrostatic discharge damage	Yes

A. Maintenance

Maintenance	specification
What kind of maintenance contract covers the router ? (none, limited to the end of warranty period, maintenance contract is under negotiation, contract with yearly renewal, other)	ltd. to the end of warranty period, then contract
When will the warranty period end ? (Give precise date.)	October 1996
Is back-up router available ? (yes,no)	YES

Is hot-swap router available ? (yes,no)	YES
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I. Facility Management

- Housing/Facility**

Housing/Facility	yes/ no
Are the router and the modems rack mounted ?	No
Is the room where the router installed climatized ?	Yes
Is the router protected from direct sun-shine ?	Yes
Is the router protected from dripping water ?	Yes
Is UPS available ?	Yes
Router is protected against power surges ?	Yes

- Operation**

Operation of facilities	specification
Specify, how you make sure that the operation of the facilities are kept ? (contract exist, 24 hour supervision, other)	24 hour supervision
State, that the access to the international router is provided 24 hours a day all year long. (yes,no)	Yes

I. Technical support

- Give detailed information about **configuration management and routing management** procedures:

configuration management,routing management	yes/ no
Is tftp used for configuration loading and saving ?	Yes
Are the routing configurations saved historically ?	Yes
Is tftp used for router software image load ?	Yes
Is flash Eprom available ?	Yes

.....

- contact persons/organizations for each of the international **lines**.

	Name	e-mail	phone	fax
your organizations	CESNET		0042- 224352996	
partner organization	DANTE		0031- 205928038	
your circuit provider	Czech Telecom			
partner circuit provider				

I. Operational support

- Give the following parameters of your ISP, whom you contact in case of problems:

Name	e-mail	phone	fax
DANTE		0031- 205928038	
EBONE			

- Give the name and e-mail address of the persons who could create fault reports in **your** organizations

Name	e-mail	phone	fax
Petr Kral	PKL@ACI.CVUT.CZ	24352945	24316106
Marek Stastny	STASTNY@ACI.CVUT. CZ	24352934	24316106
Martin Míchal	MICHAL@ACI.CVUT-CZ	24352924	24316106

Appendix A

Please, include the relevant maps here.

Questionnaire of International router operation and installation

Initial status report

LITNET research networking organisation

1. National and international interconnectivity

- Give your present and planned International interconnectivity in respect to the **PHARE** project.

From	To	speed kbit/ sec	status	Service Provider
Kaunas	Stockholm	64	operating	Swedish Space Corp.

- Specify the all **other** available international circuit capacity and the international service provider(s).

From	To	speed kbit/ sec	status	Service Provider
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- Give any **planned upgrades** and **available backup** options.

LITNET link to is to be upgraded from kbit/s capacity to

LITNET has a mutual backup agreement with

- Please, provide one **schematic map** that shows your organizations national and international interconnectivity **respectively**. The map is to be included to ANNEX A.

2. International router

2.1 International router technical specification

- Please, provide a technical specification of the router you use as international router.

International router	specification
router type	CISCO

model	2501
manufacturer	CISCO
number of serial interfaces	2
number of ethernet interfaces	1
RAM memory	16MB
software version used	10.2
flash EPROM	4MB
available routing protocols	IGRP, BGP-4
line encapsulation protocols	HDLC
is tftp used for configuration	yes
is tftp used for software image load	no
is IP accounting used	yes
is SNMP management used	no
is UPS available ?	yes
is packet filtering available	yes

2.2 Router installation

- Where is your international router installed ? /Give precise address./

.....
.....Kaunas University of Technology.....
.....Studentu 48a.....
.....Kaunas
.....Lithuania.....
.....

- Who has installed the router ?

vendor	
manufacturer	
research network organization	yes
other, specify	

The installation should meet the overall requirements of all interested parties.

- State, that the installation follows:

general requirements	yes/ no
the vendor requirements concerning the product's installations	yes
the local PTT and/or Institute environment general requirements	yes
the country's general safety requirements	yes

d) State that the installation follows the vendor's requirements in respect of:

vendor's requirements	yes/ no
general safety recommendations	yes
the safety with electricity procedures	yes
preventing electrostatic discharge damage	no

2.3 Maintenance

Maintenance	specification
What kind of maintenance contract covers the router ? (none, limited to the end of warranty period, maintenance contract is under negotiation, contract with yearly renewal, other)	limited to the end of warranty period
When will the warranty period end ? (Give precise date.)	1996 12 31
Is back-up router available ? (yes,no)	yes
Is hot-swap router available ? (yes,no)	no

3. Facility Management

- **Housing/Facility**

Housing/Facility	yes/ no
-------------------------	--------------------

Are the router and the modems rack mounted ?	yes
Is the room where the router installed climatized ?	no
Is the router protected from direct sun-shine ?	yes
Is the router protected from dripping water ?	yes
Is UPS available ?	yes
Router is protected against power surges ?	no

- **Operation**

Operation of facilities	specification
Specify, how you make sure that the operation of the facilities are kept ? (contract exist, 24 hour supervision, other)	24 hour supervision
State, that the access to the international router is provided 24 hours a day all year long. (yes,no)	yes

4.

Technical support

- Give detailed information about **configuration management and routing management** procedures:

configuration management,routing management	yes/ no
Is tftp used for configuration loading and saving ?	yes
Are the routing configurations saved historically ?	yes
Is tftp used for router software image load ?	no
Is flash Eprom available ?	yes
Is net admin staff available during week-end ?	yes
Is net admin staff available out of office hours ?	yes
Is AUP defined ?	yes

- include your RIPE registered routing policy for LIT-NET AS-s

descr: LITNET, Lithuanian Academic and Research Network

as-in: from AS2603 100 accept ANY

as-in: from AS5377 100 accept AS5377

as-out: to AS2603 announce AS2847

as-out: to AS5377 announce AS2847

default: AS2603 100

guardian: daiva@sc-uni.ktu.lt

admin-c: Daiva Tamulioniene

tech-c: Rimantas Kavaliunas

tech-c: DT78

mnt-by: AS2847-MNT

changed: daiva@sc-uni.ktu.lt 951030

source: RIPE

- Please, provide a schematic map of LITNET AS interconnections.
- Who should issue a trouble ticket and within what period of time ?

.....

.....

.....

.....

.....

.....

- contact persons/organizations for each of the international **lines**.

	Name	e-mail	phone	fax
your organizations	Kazimieras Narusevicius	kanaru@sc-uni.ktu. lt	+370-7- 799782	+370-7- 799925

partner organization				
your circuit provider	Rolf Ingelstam	rin@ssc.se	+46-8-6276309	+46-8-6276364
partner circuit provider				

5. Operational support

- Give the following parameters of your ISP, whom you contact in case of problems:

Name	e-mail	phone	fax
Bjorn Carlsson	bc@sUNET.se	+46-8-7906601	+46-8-241179

- Give the name and e-mail address of the persons who could create fault reports in **your** organizations

Name	e-mail	phone	fax
Gintaras Gruzdis	gincius@sc-uni.ktu.lt	+370-7-799782	+370-7-799925

Appendix A

Please, include the relevant maps here.

Questionnaire of International router operation and installation

Initial status report

Estonian Educational and Research Network EENet

IT95(04)

12 January, 1996

1. National and international interconnectivity

- Present and planned international interconnectivity in respect to the **PHARE** project.

From	To	speed kbit/ sec	status	Service Provider
Tallinn (Estonia)	Helsinki (Finland)	256 Kbps	up	FUNET
Tallinn (Estonia)	Riga (Latvia)	64 Kbps	up	EsData

- Other available international circuit capacity and the international service provider(s).

From	To	speed kbit/ sec	status	Service Provider
Tallinn (Estonia)	Stockholm	2 Mbps	not in use	Estonian Telephone

- Planned upgrades and available backup options.

EENet link to Stockholm is to be upgraded from 0 kbit/s capacity to 512 Kbps (timetable not available yet).

EENet has a mutual backup agreement with LATNET (Latvia).

- Schematic map showing EENet's national and international interconnectivity respectively is included to ANNEX A.

2. International router

2.1 International router technical specification

International router	specification
router type	Cisco 2501
model	2501
manufacturer	Cisco
number of serial interfaces	2
number of ethernet interfaces	1
RAM memory	16 M
software version used	10.0
flash EPROM	2 M
available routing protocols	BGP4, OSPF, IGRP, RIP <i>etc..</i>
line encapsulation protocols	HDLC, PPP, LAPB, FFR <i>etc.</i>
is tftp used for configuration	yes
is tftp used for software image load	yes, if needed
is IP accounting used	yes
is SNMP management used	yes
is UPS available ?	yes
is packet filtering available	yes

2.2 Router installation

- International router is installed in Tallinn International Exchange, Sõle Str. 14., Tallinn, Estonia.
- The router has been installed by

vendor	
manufacturer	
research network organization	EENet
other, specify	

c) The installation follows following requirements:

<i>general requirements</i>	<i>yes/ no</i>
the vendor requirements concerning the product's installations	yes
the local PTT and/or Institute environment general requirements	yes
the country's general safety requirements	yes

d) The installation follows the vendor's requirements in respect of:

<i>vendor's requirements</i>	<i>yes/ no</i>
general safety recommendations	yes
the safety with electricity procedures	yes
preventing electrostatic discharge damage	yes

2.3 Maintenance

Maintenance	specification
What kind of maintenance contract covers the router ? (none, limited to the end of warranty period, maintenance contract is under negotiation, , other)	Contract with yearly renewal. Replacement of corrupted parts in 24 hours.
When will the warranty period end ? (Give precise date.)	
Is back-up router available ? (yes,no)	no
Is hot-swap router available ? (yes,no)	no

3. Facility Management

- **Housing/Facility**

Housing/Facility	yes/ no
Are the router and the modems rack mounted ?	yes
Is the room where the router installed climatized ?	yes

Is the router protected from direct sun-shine ?	yes
Is the router protected from dripping water ?	yes
Is UPS available ?	yes
Router is protected against power surges ?	yes

- **Operation**

Operation of facilities	specification
Specify, how you make sure that the operation of the facilities are kept ? (contract exist, 24 hour supervision, other)	contract exists
State, that the access to the international router is provided 24 hours a day all year long. (yes,no)	yes

4. Technical support

- Detailed information about **configuration management and routing management** procedures:

configuration management,routing management	yes/no
Is tftp used for configuration loading and saving ?	yes
Are the routing configurations saved historically ?	no
Is tftp used for router software image load ?	yes, if needed
Is flash Eprom available ?	yes
Is net admin staff available during week-end ?	yes, by phone
Is net admin staff available out of office hours ?	yes, by phone
Is AUP defined ?	yes

- RIPE registered routing policy for EENet AS-s

aut-num: AS3221

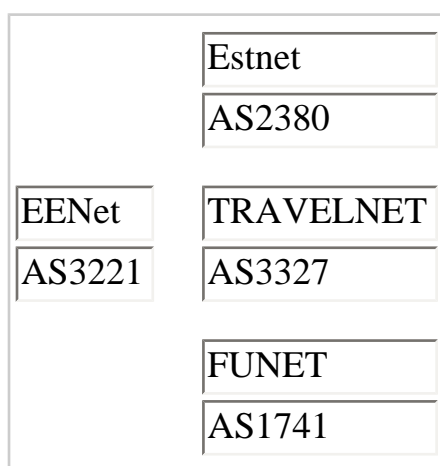
descr: EENet Autonomous System

descr: Estonian Educational and Research Network

descr: EE

as-in: from AS1741 100 accept ANY
 as-in: from AS2380 100 accept AS2380
 as-in: from AS3327 100 accept AS3327
 as-out: to AS1741 announce AS3221
 as-out: to AS2380 announce AS3221
 as-out: to AS3327 announce AS3221
 default: AS1741 100
 guardian: andresb@kbfi.ee
 admin-c: Enok Sein
 tech-c: Andres Bauman
 changed: andresb@kbfi.ee 960110
 source: RIPE

- A schematic map of EENet AS interconnections:



- Following institutions should issue a trouble ticket:

Nösper Ltd; EsData Ltd.; FUNET

- contact persons/organizations for each of the international **lines**.

	Name	e-mail	phone	fax
<i>Tallinn-Helsinki</i>				
EENet	Enok Sein	enok@eenet.ee	+372 7 433 635 +372 5 230 363	+372 7 431 980
FUNET	Markus Sadeniemi	Markus.Sadeniemi@funet. fi	+358 0 4572711	+358 0 4572302
our circuit provider	Telekom Finland			

partner circuit provider				
<i>Tallinn-Riga</i>				
EENet	Enok Sein	enok@eenet.ee	+372 7 433 635 +372 5 230 363	+372 7 431 980
LATNET	Janis Kikuts	kikuts@mii.lu.lv		
our circuit provider	Estonian Telephone		+372 639 7211	+372 639 7222
partner circuit provider	Lattelekom			

5. Operational support

- In case of problems we contact following people:

Name	e-mail	phone	fax
Taavi Talvik	taavi@uninet.ee	+372 630 8858	+372 6317984
Tiit Siida	tiit@estnet.ee	+372 2 527 504	+372 639 7039
Pekka Kytolaakso, FUNET	Pekka.Kytolaakso @funet. fi	+358 0 4572246	+ 358 0 4572302

Appendix A

256K

Neutral LAN (IX-LAN)

64K

Questionnaire of International router operation and installation

Initial status report

Hungarnet research networking organisation

1. National and international interconnectivity

- Give your present and planned International interconnectivity in respect to the **PHARE** project.

From	To	speed kbit/ sec	status	Service Provider
Budapest	Amsterdam	1984	operational	Europenet

- Specify the all **other** available international circuit capacity and the international service provider(s).

From	To	speed kbit/ sec	status	Service Provider
Budapest	Vienna	256	operational	EBONE

- Give any **planned upgrades** and **available backup** options.

XXXNET link to is to be upgraded from kbit/s capacity to

XXXNET has a mutual backup agreement with

- Please, provide one **schematic map** that shows your organizations national and international interconnectivity **respectively**. The map is to be included to ANNEX A.

2. International router

2.1 International router technical specification

- Please, provide a technical specification of the router you use as international router.

International router	specification
router type	CISCO

model	4000
manufacturer	CISCO
number of serial interfaces	4
number of ethernet interfaces	2
RAM memory	16
software version used	10.3
flash EPROM	yes
available routing protocols	BGP,IGRP, etc
line encapsulation protocols	HDLC
is tftp used for configuration	yes
is tftp used for software image load	no
is IP accounting used	no
is SNMP management used	yes
is UPS available ?	no
is packet filtering available	yes

2.2 Router installation

- Where is your international router installed ? /Give precise address./

H-1052, Budapest, V. ker Városház u. 18
Hungary

- Who has installed the router ?

vendor	
manufacturer	
research network organization	yes
other, specify	

The installation should meet the overall requirements of all interested parties.

- State, that the installation follows:

general requirements	yes/ no
the vendor requirements concerning the product's installations	yes
the local PTT and/or Institute environment general requirements	yes
the country's general safety requirements	yes

d) State that the installation follows the vendor's requirements in respect of:

vendor's requirements	yes/ no
general safety recommendations	yes
the safety with electricity procedures	yes
preventing electrostatic discharge damage	yes

2.3 Maintenance

Maintenance	specification
What kind of maintenance contract covers the router ? (none, limited to the end of warranty period, maintenance contract is under negotiation, contract with yearly renewal, other)	contract with yearly renewal
When will the warranty period end ? (Give precise date.)	31. December 1996
Is back-up router available ? (yes,no)	yes
Is hot-swap router available ? (yes,no)	yes

3. Facility Management

- Housing/Facility

Housing/Facility	yes/ no
Are the router and the modems rack mounted ?	yes
Is the room where the router installed climatized ?	yes
Is the router protected from direct sun-shine ?	yes

Is the router protected from dripping water ?	no
Is UPS available ?	no
Router is protected against power surges ?	no

- **Operation**

Operation of facilities	specification
Specify, how you make sure that the operation of the facilities are kept ? (contract exist, 24 hour supervision, other)	contract exists
State, that the access to the international router is provided 24 hours a day all year long. (yes,no)	yes

4. Technical support

- Give detailed information about **configuration management and routing management** procedures:

configuration management,routing management	yes/ no
Is tftp used for configuration loading and saving ?	yes
Are the routing configurations saved historically ?	yes
Is tftp used for router software image load ?	no
Is flash Eprom available ?	yes
Is net admin staff available during week-end ?	yes
Is net admin staff available out of office hours ?	yes
Is AUP defined ?	yes

- include your RIPE registered routing policy for Hungarnet AS

aut-num: AS1955

descr: HUNGARNET

descr: Hungarian Academic and Research Network

as-in: from AS1755 50 accept AS-EBONE

as-in: from AS1128 50 accept ANY

as-in: from AS3219 50 accept AS3219

as-in: from AS2547 50 accept AS2547

as-in: from AS2547 60 accept AS2012 AS3338

as-in: from AS2012 50 accept AS2012

as-in: from AS2012 60 accept AS2547
 as-in: from AS2012 70 accept AS3338
 as-in: from AS3338 50 accept AS3338
 as-in: from AS3338 60 accept AS3337
 as-in: from AS3338 70 accept AS2012 AS2547
 as-in: from AS3337 50 accept AS3337
 as-in: from AS3337 60 accept AS3338
 as-in: from AS3314 50 accept AS3314
 as-in: from AS3346 50 accept AS3346
 as-out: to AS1755 announce AS-HBONE
 as-out: to AS1128 announce AS-HBONE
 as-out: to AS3219 announce AS1955
 as-out: to AS3314 announce AS1955
 as-out: to AS3346 announce AS-HBONE
 as-out: to AS2547 announce AS-HBONE
 as-out: to AS2012 announce AS-HBONE
 as-out: to AS3337 announce AS-HBONE
 as-out: to AS3338 announce AS-HBONE
 guardian: hostmaster@sztaki.hu
 admin-c: BM238
 tech-c: IT1953
 tech-c: GK26-RIPE
 mnt-by: AS1955-MNT
 changed: horvath@sztaki.hu 950207
 changed: kissg@sztaki.hu 951101
 source: RIPE

- Who should issue a trouble ticket and within what period of time ?

net-admin@sztaki.hu, within 4 hours

- contact persons/organizations for each of the international **lines**.

	Name	e-mail	phone	fax
your organizations	István Tétényi	tetenyi@sztaki.hu	+361-149-7532	+361-129-7866
partner organization	Michael Behringer	nmc@dante.org.uk	+441223-302992	+441223-303005
your circuit provider	Gyula Szilágyi	N/A	+361-266-3995	N/A
partner circuit provider	Michael Kruit	N/A	+31-20-484488	N/A

5. Operational support

- Give the following parameters of your ISP, whom you contact in case of problems:

Name	e-mail	phone	fax
Michael Behringer	nmc@dante.org.uk	+441223-302992	+441223-303005

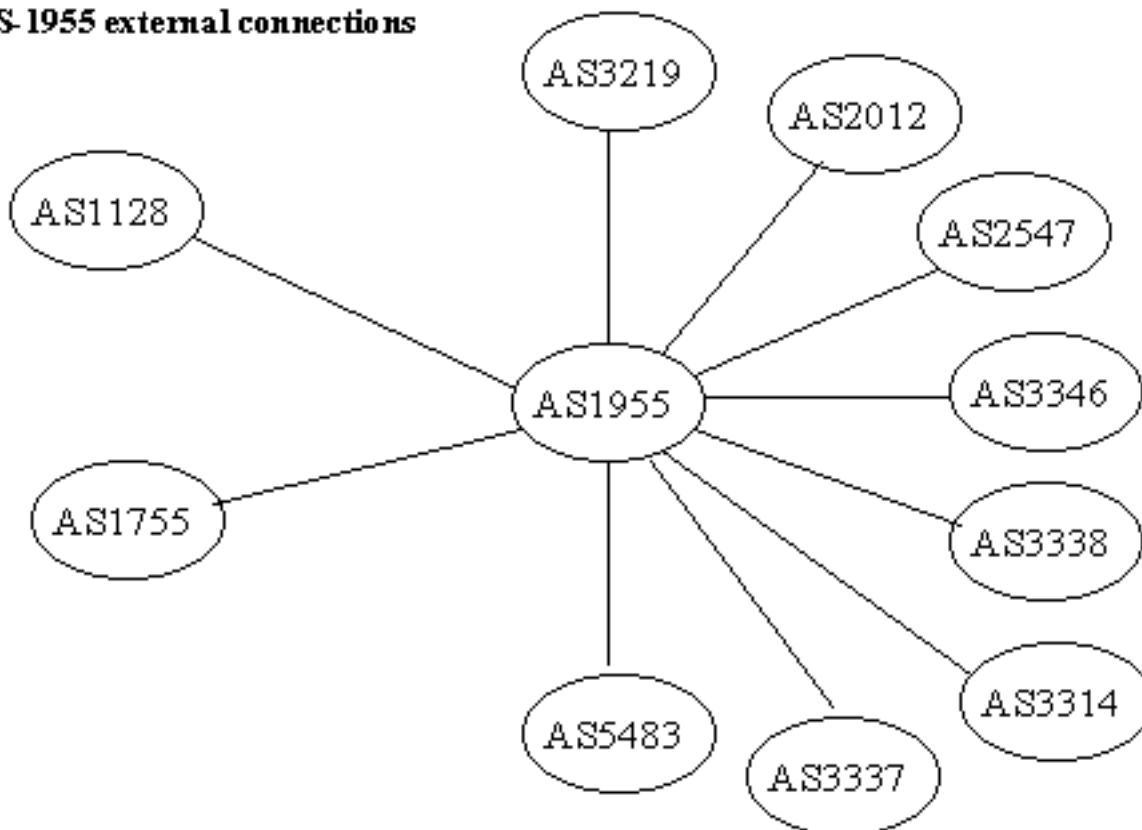
- Give the name and e-mail address of the persons who could create fault reports in **your** organizations

Name	e-mail	phone	fax
Istvan Tétényi	tetenyi@sztaki.hu	+361-149-7532	+361-129-7866
Gábor Kiss	kiss@sztaki.hu	+361-149-7532	+361-129-7866

Appendix A

Please, include the relevant maps here.

AS-1955 external connections



The map does not show AS-EBONE internal connections

Questionnaire of International router operation and installation

Initial status report

LATNET research networking of Latvia

1. National and international interconnectivity

- Give your present and planned International interconnectivity in respect to the **PHARE** project.

From	To	speed kbit/ sec	status	Service Provider
Riga	Stockholm	128	operational	Lattelekom
Riga	Tallinn	64	operational	Lattelekom

- Specify the all **other** available international circuit capacity and the international service provider(s).

From	To	speed kbit/ sec	status	Service Provider
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- Give any **planned upgrades** and **available backup** options.

LATNET link to Stockholm is to be upgraded from 128 kbit/s capacity to 256kbit/s .

- Please, provide one **schematic map** that shows your organizations national and international interconnectivity **respectively**. The map is to be included to ANNEX A.

2. International router

2.1 International router technical specification

- Please, provide a technical specification of the router you use as international router.

International router	specification
router type	CISCO
model	2514

manufacturer	CISCO
number of serial interfaces	2
number of ethernet interfaces	2
RAM memory	16MB
software version used	10.3
flash EPROM	4MB
available routing protocols	BGP4, OSPF, RIP, EIGRP
line encapsulation protocols	HDLC, PPP, LAP-B
is tftp used for configuration	yes
is tftp used for software image load	yes
is IP accounting used	yes
is SNMP management used	yes
is UPS available ?	yes
is packet filtering available	yes

2.2 Router installation

- Where is your international router installed ? /Give precise address./

Institute of Mathematics and Computer Science

Rainis blvd. 29

Riga, LV1459

LATVIA

phone: +371 7 212427 fax +371 7 820153

- Who has installed the router ?

vendor	
manufacturer	
research network organization	yes, LATNET
other, specify	

The installation should meet the overall requirements of all interested parties.

- State, that the installation follows:

general requirements	yes/ no
the vendor requirements concerning the product's installations	yes
the local PTT and/or Institute environment general requirements	yes
the country's general safety requirements	yes

d) State that the installation follows the vendor's requirements in respect of:

vendor's requirements	yes/ no
general safety recommendations	yes
the safety with electricity procedures	yes
preventing electrostatic discharge damage	yes

2.3 Maintenance

Maintenance	specification
What kind of maintenance contract covers the router ? (none, limited to the end of warranty period, maintenance contract is under negotiation, contract with yearly renewal, other)	Manufacturer warranty
When will the warranty period end ? (Give precise date.)	May 15, 1996
Is back-up router available ? (yes,no)	yes
Is hot-swap router available ? (yes,no)	yes

3. Facility Management

- Housing/Facility

Housing/Facility	yes/ no
------------------	------------

Are the router and the modems rack mounted ?	yes
Is the room where the router installed climatized ?	yes
Is the router protected from direct sun-shine ?	yes
Is the router protected from dripping water ?	yes
Is UPS available ?	yes
Router is protected against power surges ?	yes

- **Operation**

Operation of facilities	specification
Specify, how you make sure that the operation of the facilities are kept ? (contract exist, 24 hour supervision, other)	24h monitoring by pager
State, that the access to the international router is provided 24 hours a day all year long. (yes,no)	yes

4. Technical support

- Give detailed information about **configuration management and routing management** procedures:

configuration management,routing management	yes/no
Is tftp used for configuration loading and saving ?	yes
Are the routing configurations saved historically ?	yes
Is tftp used for router software image load ?	yes
Is flash Eprom available ?	yes
Is net admin staff available during week-end ?	yes
Is net admin staff available out of office hours ?	yes, by pager
Is AUP defined ?	

- include your RIPE registered routing policy for LATNET AS-s

AUT-NUM: AS2588

DESCR: LATNET

AS-IN: FROM AS1741 100 ACCEPT AS1741

AS-IN: FROM AS2603 10 ACCEPT ANY
 AS-OUT: TO AS1741 ANNOUNCE AS2588
 AS-OUT: TO AS2603 ANNOUNCE AS2588
 DEFAULT: AS2603 100
 GUARDIAN: hostmaster@mii.lu.lv
 ADMIN-C: Guntis Barzdins
 TECH-C: Janis Lacis

- Please, provide a schematic map of LATNET AS interconnections.

NORDUNET _____ LATNET _____ FUNET

AS2603 AS2588 AS1741

- Who should issue a trouble ticket and within what period of time ?

Janis Lacis, Guntis Barzdins
 in 30min (during working hours)
 in 2h (weekends, nights)

- contact persons/organizations for each of the international **lines**.

Riga-Stockholm:

	Name	e-mail	phone	fax
your organizations	LATNET	guntis@mii.lu.lv	+371 9 206943	+371 7820153
partner organization	KTH	bc@sunet.se	+4687906517	
your circuit provider	Lattelekom		+3717055616	
partner circuit provider	TELE-2 (Sweden)			

Riga-Tallinn:

	Name	e-mail	phone	fax
your organizations	LATNET	guntis@mii.lu.lv	+371 9 206943	+371 7820153
partner organization	EENET	enok@eenet.ee		
your circuit provider	Lattelekom		+3717055616	
partner circuit provider	Esti Telecom			

5. Operational support

- Give the following parameters of your ISP, whom you contact in case of problems:

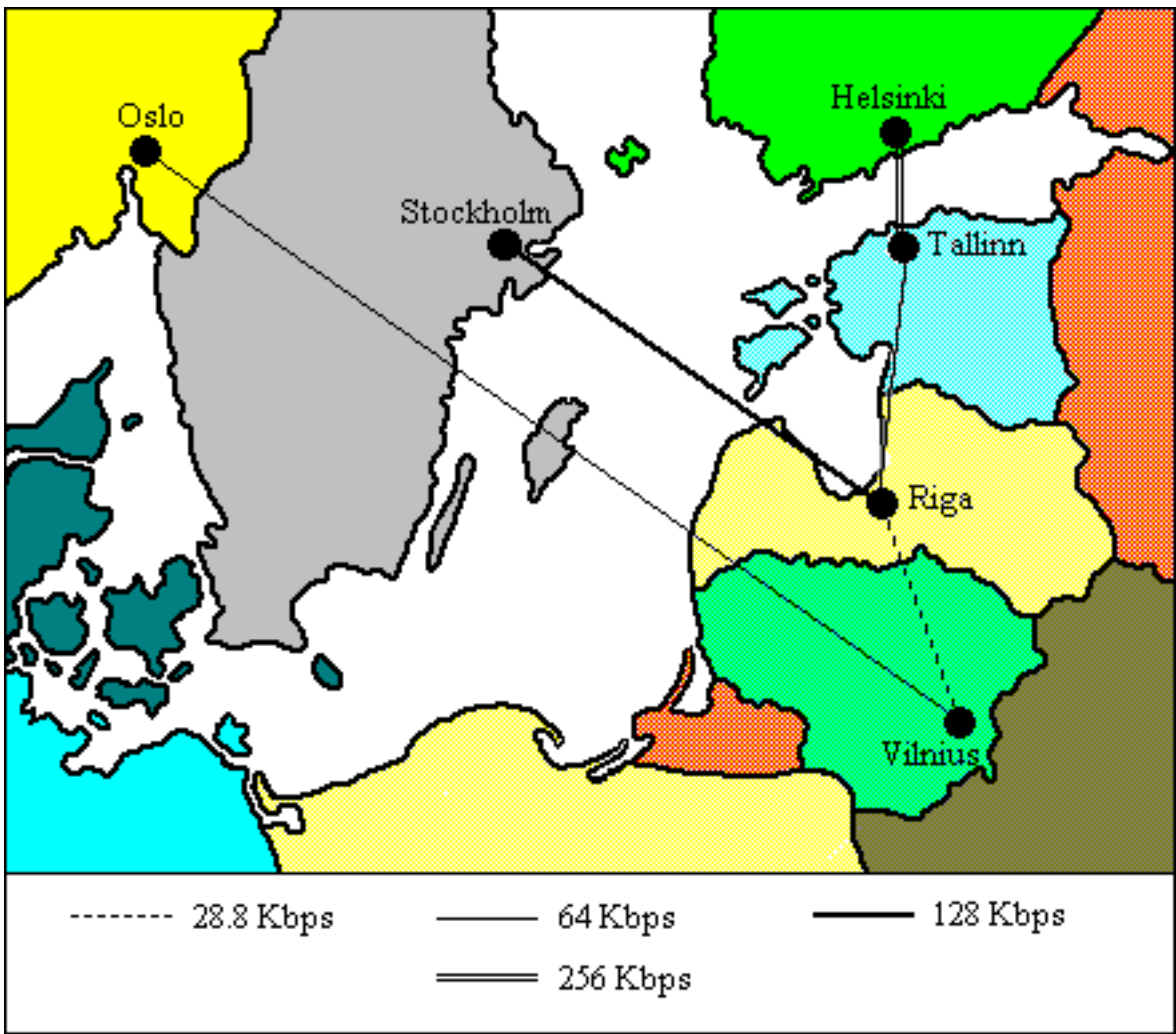
Name	e-mail	phone	fax
KTH, NORDUnet	bc@sUNET.se	+4687906517	
FUNET	sadeniemi@funet. fi	+35804572711	04572302

- Give the name and e-mail address of the persons who could create fault reports in **your** organizations

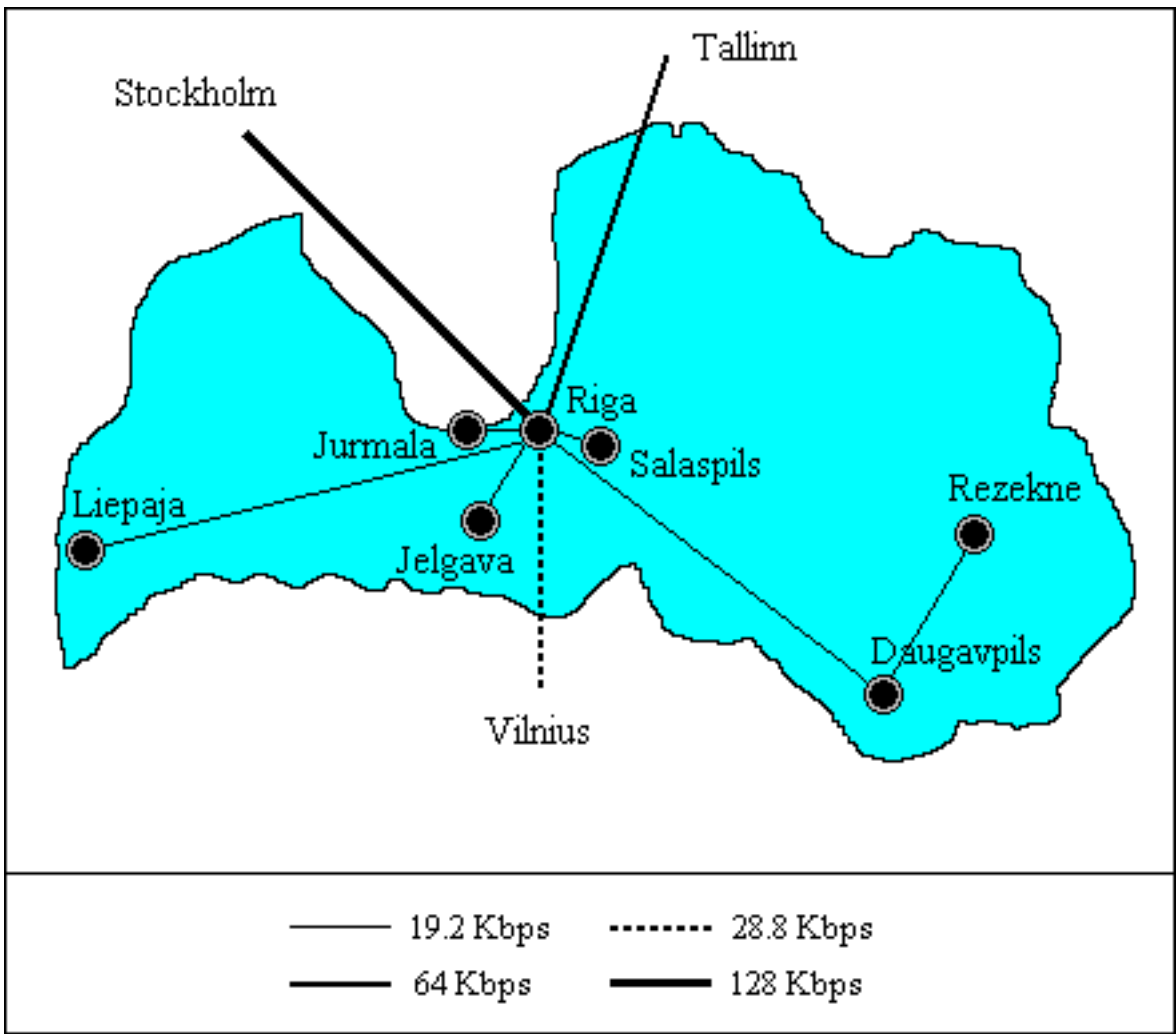
Name	e-mail	phone	fax
Guntis Barzdins	guntis@mii.lu. lv	+3719206943	3717820153
Janis Lacis	janis@mii.lu.lv	+3717212427	3717820153

Appendix A

International connectivity of LATNET.



National connectivity of LATNET.



Questionnaire of International router operation and installation

Initial status report

RNC-NET research networking organisation

1. National and international interconnectivity

- Give your present and planned International interconnectivity in respect to the **PHARE** project.

From	To	speed kbit/sec	status	Service Provider
Bucharest	Vienna	64	present	PTT Austria
Bucharest	Budapest	64	planned	PTT Romania

- Specify the all **other** available international circuit capacity and the international service provider(s).

From	To	speed kbit/sec	status	Service Provider
Bucharest	Amsterdam	64	present	PTT Romania
Bucharest	Chisinau	19,200	present	PTT Romania

- Give any **planned upgrades** and **available backup** options.

RNCNET link to Vienna is to be upgraded from 64 kbit/s capacity to 128/256 kbit/s

RNCNET has a mutual backup agreement with - .

- Please, provide one **schematic map** that shows your organizations national and international interconnectivity **respectively**. The map is to be included to ANNEX A.

2. International router

2.1 International router technical specification

- Please, provide a technical specification of the router you use as international router.

International router	specification
router type	CISCO
model	AGS+
manufacturer	CISCO
number of serial interfaces	13
number of ethernet interfaces	3
RAM memory	16M
software version used	IOS GS3 Version 10.0(5)
flash EPROM	no
available routing protocols	BGP4, EGP, OSPF, IGRP, EIGRP, ISIS, ISO-IGRP, RIP, static
line encapsulation protocols	HDLC, PPP, X.25, LAPB
is tftp used for configuration	no

is tftp used for software image load	no
is IP accounting used	yes
is SNMP management used	not yet
is UPS available ?	yes
is packet filtering available	not yet

2.2 Router installation

- Where is your international router installed ? /Give precise address./

RESEARCH INSTITUTE FOR INFORMATICS (ICI)
 Bd. Maresal Averescu 8-10
 Sector 1 Bucharest 71316
 ROMANIA

- Who has installed the router ?

vendor	-
manufacturer	-
research network organization	ICI
other, specify	-

The installation should meet the overall requirements of all interested parties.

- State, that the installation follows:

general requirements	yes/ no
the vendor requirements concerning the product's installations	yes
the local PTT and/or Institute environment general requirements	yes
the country's general safety requirements	yes

d) State that the installation follows the vendor's requirements in respect of:

vendor's requirements	yes/ no
general safety recommendations	yes
the safety with electricity procedures	yes
preventing electrostatic discharge damage	yes

2.3 Maintenance

Maintenance	specification
What kind of maintenance contract covers the router ? (none, limited to the end of warranty period, maintenance contract is under negotiation, contract with yearly renewal, other)	contract with yearly renewal after the end of warranty period

When will the warranty period end ? (Give precise date.)	1 March 1997
Is back-up router available ? (yes,no)	no
Is hot-swap router available ? (yes,no)	no

3. Facility Management

- **Housing/Facility**

Housing/Facility	yes/ no
Are the router and the modems rack mounted ?	yes
Is the room where the router installed climatized ?	yes
Is the router protected from direct sun-shine ?	yes
Is the router protected from dripping water ?	yes
Is UPS available ?	yes
Router is protected against power surges ?	yes

- **Operation**

Operation of facilities	specification
Specify, how you make sure that the operation of the facilities are kept ? (contract exist, 24 hour supervision, other)	24 hour supervision
State, that the access to the international router is provided 24 hours a day all year long. (yes, no)	yes

4. Technical support

- Give detailed information about **configuration management and routing management** procedures:

configuration management,routing management	yes/ no
Is tftp used for configuration loading and saving ?	no
Are the routing configurations saved historically ?	yes
Is tftp used for router software image load ?	yes
Is flash Eprom available ?	yes
Is net admin staff available during week-end ?	yes
Is net admin staff available out of office hours ?	yes
Is AUP defined ?	no

- include your RIPE registered routing policy for RNC-NET AS-s

```

aut-num: AS3233
descr: RNC
descr: Research Institute for Informatics
descr: Bucharest, Bd. Averescu 8-10
descr: Sector 1, 71316, Romania
descr: RO
as-in: from AS1755 100 accept ANY
as-out: to AS1755 announce AS3233

```

default: AS1755 50
 guardian: domain-admin@roearn.ici.ro
 admin-c: ES16
 tech-c: ES16
 tech-c: GM13-RIPE
 mnt-by: AS3233-MNT
 changed: estaicut@roearn.ici.ro 951210
 source: RIPE

- Please, provide a schematic map of RNC-NET AS interconnections.

RNC-NET AS3233 has interconnection with AS1755 (EBONE AS), to accept any from AS1755 and to announce AS.

- Who should issue a trouble ticket and within what period of time ?

RNC team and also ACONET team for Bucharest-Vienna link.

- contact persons/organizations for each of the international **lines**.

	Name	e-mail	phone	fax
your organizations	ICI	net-admin@roearn.ici.ro	40-1-6656660	40-1-3128539
partner organization	Vienna University	net-admin@cc.univie.ac.at	43-1-4065822-385	43-1-4065822-170
your circuit provider	PTT Austria	Krajnik@access.una.ac.at	43-1-51551-2700	43-1-5129538
partner circuit provider	PTT Austria	Krajnik@access.una.ac.at	43-1-51551-2700	43-1-5129538

5. Operational support

- Give the following parameters of your ISP, whom you contact in case of problems:

Name	e-mail	phone	fax
Eugenie Staicut	estaicut@roearn.ici.ro	+40-1-6656660	+40-1-3128539
Emil Stanescu	stanescu@u2.ici.ro	+40-1-6656660	+40-1-3128539

- Give the name and e-mail address of the persons who could create fault reports in **your** organizations

Name	e-mail	phone	fax
George Macri	gmacri@roearn.ici.ro	+40-1-6656660	+40-1-3128539

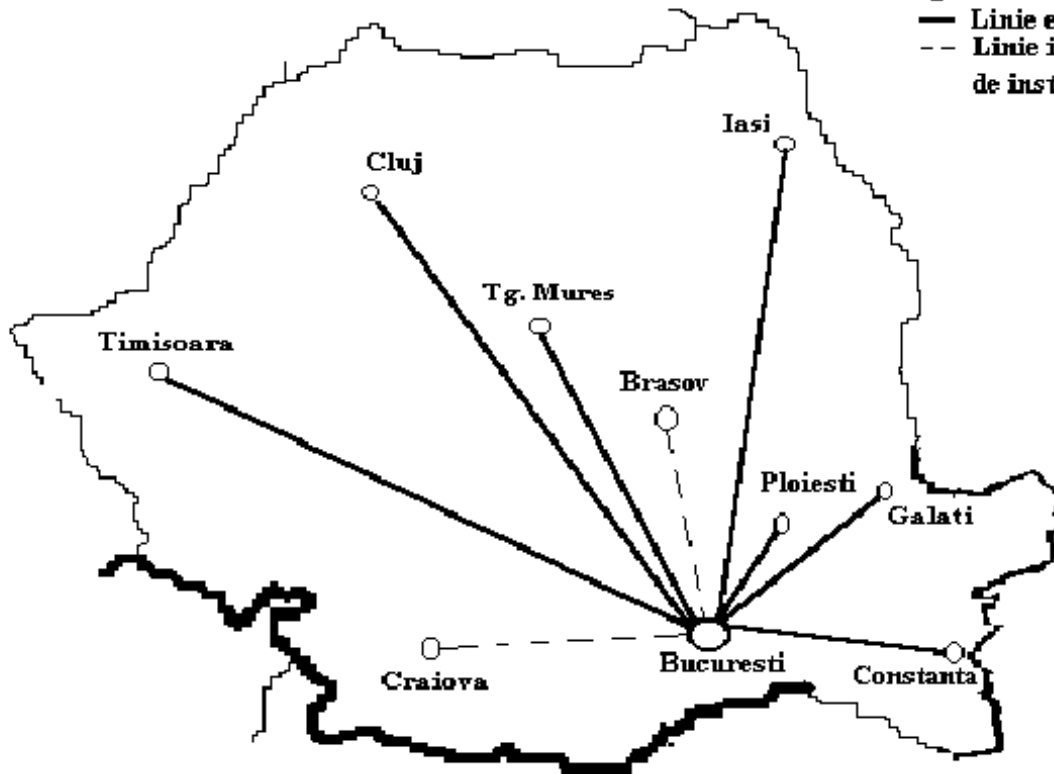
RNC - International and National Interconnectivity

Legenda

○ Nod

— Linie existenta

- - - Linie in curs
de instalare



Questionnaire of International router operation and installation

Initial status report

SANET research networking organisation

1. National and international interconnectivity

- Give your present and planned International interconnectivity in respect to the **PHARE** project.

From	To	speed kbit/ sec	status	Service Provider
Banska Bystrica	Prague	128	operational	IBM

- Specify the all **other** available international circuit capacity and the international service provider(s).

From	To	speed kbit/ sec	status	Service Provider
Bratislava	Vienna	128	operational	IBM

- Give any **planned upgrades** and **available backup** options.

SANET link to Prague is to be upgraded from 128 kbit/s capacity to 256 .

- Please, provide one **schematic map** that shows your organizations national and international interconnectivity **respectively**. The map is to be included to ANNEX A.

2. International router

2.1 International router technical specification

- Please, provide a technical specification of the router you use as international router.

International router	specification
router type	cisco
model	7010

manufacturer	cisco
number of serial interfaces	8
number of ethernet interfaces	2
RAM memory	16
software version used	11.0(2)
flash EPROM	4096 KB
available routing protocols	BGP4, RIP ...
line encapsulation protocols	PPP
is tftp used for configuration	no
is tftp used for software image load	no
is IP accounting used	no
is SNMP management used	yes
is UPS available ?	no
is packet filtering available	yes

2.2 Router installation

- Where is your international router installed ? /Give precise address./

UAKOM UMB
 Kyjevské nám. 6
 97401 Banská Bystrica
 Slovakia

- Who has installed the router ?

vendor	yes
manufacturer	
research network organization	
other, specify	

The installation should meet the overall requirements of all interested parties.

- State, that the installation follows:

general requirements	yes/ no
the vendor requirements concerning the product's installations	yes
the local PTT and/or Institute environment general requirements	yes
the country's general safety requirements	yes

d) State that the installation follows the vendor's requirements in respect of:

vendor's requirements	yes/ no
general safety recommendations	yes
the safety with electricity procedures	yes
preventing electrostatic discharge damage	yes

2.3 Maintenance

Maintenance	specification
What kind of maintenance contract covers the router ? (none, limited to the end of warranty period, maintenance contract is under negotiation, contract with yearly renewal, other)	warranty period
When will the warranty period end ? (Give precise date.)	October 1, 95
Is back-up router available ? (yes,no)	no
Is hot-swap router available ? (yes,no)	no

3. Facility Management

- Housing/Facility

Housing/Facility	yes/ no
Are the router and the modems rack mounted ?	no
Is the room where the router installed climatized ?	yes
Is the router protected from direct sun-shine ?	yes

Is the router protected from dripping water ?	yes
Is UPS available ?	no
Router is protected against power surges ?	yes

- **Operation**

Operation of facilities	specification
Specify, how you make sure that the operation of the facilities are kept ? (contract exist, 24 hour supervision, other)	24hour supervision
State, that the access to the international router is provided 24 hours a day all year long. (yes,no)	yes

4. Technical support

- Give detailed information about **configuration management and routing management** procedures:

configuration management,routing management	yes/ no
Is tftp used for configuration loading and saving ?	no
Are the routing configurations saved historically ?	yes
Is tftp used for router software image load ?	no
Is flash Eprom available ?	yes
Is net admin staff available during week-end ?	yes
Is net admin staff available out of office hours ?	no
Is AUP defined ?	yes

include your RIPE registered routing policy for XXX-NET AS-s..
AS1922

.....

- Please, provide a schematic map of XXX-NET AS interconnections.

AS1902=====AS1922

- Who should issue a trouble ticket and within what period of time ?

SANET operational team / when error occurs

- contact persons/organizations for each of the international **lines**.

	Name	e-mail	phone	fax
your organizations	Lubos Elias	elias@uakom.sk	42-88-731876	42-88731875
partner organization	Petr Král	pk1 @aci.cvut. cz	42-2- 24352996	
your circuit provider	IBM		42-88-744179	-42-88- 44179
partner circuit provider				

5. Operational support

- Give the following parameters of your ISP, whom you contact in case of problems:

Name	e-mail	phone	fax
CESNET operational staff		-42-2- 24352996	

- Give the name and e-mail address of the persons who could create fault reports in **your** organizations

Name	e-mail	phone	fax
Peter Maruniak	maruniak@uakom. sk	42-88- 731876	... 731875
Ľuboš Elias	elias@uakom.sk	same	same
Peter Gajdoš	gajdos @uakom.sk	same	same

Appendix A

Please, include the relevant maps here.