NORDUnet Traffic Report

November 1993

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NORDUnet Link Upgrade History

	DK	NO	FI	IS	NL	US	UK	PL	EE	DE
88	64K	64K	64K	.	.	56K	.	.	.	.
890104	.	.	.	.	64K	.	.	.	.	.
890127	.	.	.	X.25	.	.	.	.	.	.
900724	.	.	.	9.6K	.	.	.	.	.	.
900814	.	.	.	.	.	64K	.	.	.	.
910108	.	.	128K	.	.	.	.	.	.	.
910312	.	128K	.	.	.	.	.	.	.	.
910315	.	.	.	.	.	128K	.	.	.	.
910405	.	.	.	.	192K	.	.	.	.	.
910601	.	.	.	.	.	.	.	9.6K	.	.
910727	.	.	192K	.	.	.	.	.	.	.
910912	.	.	.	.	.	256K	.	.	.	.
911004	128K	.	.	.	.	.	.	.	.	.
920102	.	.	256K	.	.	.	.	.	.	.
920108	256K	.	.	.	.	.	.	.	.	.
920123	.	256K	.	.	.	.	.	.	.	.
920331	.	.	.	.	256K	.	.	.	.	.
920406	.	.	.	.	.	768K	.	.	.	.
920410	.	.	.	.	.	.	.	.	64K	.
920420	.	.	.	.	.	.	.	64K	.	.
920504	.	.	512K	.	.	.	.	.	.	.
920507	.	.	.	56K	.	.	.	.	.	.
920510	.	.	.	.	.	.	256K	.	.	.
920617	.	.	.	.	512K	.	.	.	.	.
930107	.	512K	.	.	.	.	.	.	.	.
930125	.	.	.	.	.	T1	.	.	.	.
930128	512K	.	.	.	.	.	.	.	.	.
930226	.	.	.	.	.	.	.	.	.	256K
930308	.	.	1M	.	.	.	.	.	.	.
930630	.	.	.	.	T1	.	.	.	.	.
930702	.	.	.	.	.	.	.	2M	.	.
931021	.	2M	2M	.	.	.	.	.	.	.
931026	1M	.	.	.	.	.	.	.	.	.

| | DK | NO | FI | IS | NL | US | UK | PL | EE | DE |

PING Availability statistics 931101 - 931130

Line/Site	Number of downs			Total downtime	Avail
	>1hour	1h-10min	0-10min		
sunet-gw.sunet.se	0	0	1	00:05:01	99.99%
searn.sunet.se	0	0	10	00:13:02	99.97%
stockholm-ebs1.ebone.net	0	0	9	00:20:00	99.95%
nord-gw.nordu.net	0	1	11	00:31:01	99.93%
stockholm-ebs2.ebone.net	0	1	6	00:34:31	99.92%
bonn-ebs1.ebone.net	0	1	9	00:50:03	99.88%
cern-ebs1.ebone.net	0	0	35	00:53:33	99.88%
fi-gw.nordu.net	0	3	6	01:05:27	99.85%
no-gw.nordu.net	0	4	21	01:33:31	99.78%
london-ebs1.ebone.net	0	0	111	02:22:01	99.67%
tallinn-gw.nordu.net	1	1	59	02:39:52	99.63%
stockholm-washington.ebone.net	1	1	19	04:13:32	99.41%
is-gw.nordu.net	0	2	232	05:42:13	99.21%
amsterdam-ebs2.ebone.net	1	7	10	06:53:30	99.04%
dk-gw.nordu.net	3	6	7	07:53:59	98.90%

SNMP Availability statistics 931101 - 931130

Line/Site	Number of downs			Total downtime	Avail
	>1hour	1h-10min	0-10min		
Nordunet-Ebone	0	0	1	00:00:11	100.00%
Stockholm-EBS2	0	0	1	00:00:22	100.00%
Stockholm-Bonn	0	0	3	00:03:20	99.99%
Stockholm-Mbone	0	0	2	00:04:50	99.99%
Stockholm-Poland	0	0	6	00:24:20	99.94%
Stockholm-Finland	0	1	3	00:34:30	99.92%
Stockholm-Norway	0	1	8	00:43:00	99.90%
Stockholm-Tallinn	1	0	1	01:04:20	99.85%
Stockholm-Iceland	0	1	46	01:17:38	99.82%
Stockholm-London	0	4	8	02:04:13	99.71%
Stockholm-Washington	1	0	13	03:09:30	99.56%
Stockholm-Amsterdam	1	3	9	04:59:49	99.31%
Stockholm-Denmark	1	8	19	06:29:03	99.10%

Event Log

931101	Link Stockholm-London cancelled
931102 08:00	Paris-EBS1/EBS2 running the new BGP4 software 9.21 (4673)
931102 17:00	Replacement of a V.35 card in the MUX at UNI-C to try to get the NORDUnet line to Denmark running at full speed (1920Kbps).
931102	Stockholm-London has high error rates
931102	Route to Tartu opened via FUNET-Tallinn
931103 19:00	Stockholm-Iceland link moved to the NORDUnet 7000 cisco TCP header-compression enabled on this link
931105	Native CLNP path between US and NORDUnet via ICM+Ebone available and in use over Ebone
931108 11:26	Stockholm - Washington and Amsterdam lines down Problem between Rotterdam and Amsterdam
931108 16:09	Stockholm-Amsterdam and Stockholm-Denmark lines down, due to a problem in southern Sweden.
931111 19:00	Stockholm-EBS2 moved into a new rack and some re-cabling done
931116 09:30	European access for DFN-IP networks changed to DANTE-gw
931116 10:00	256k Amsterdam - Vienna installed
931116 12:36	Stockholm-London line down. Problem with transmission equipment in Halmstad (southern Sweden)
931116 17:00	Stockholm-Denmark line taken down for end-end tests to try to locate the problem with running more than 1024Kbps.
931116 22:33	The UPS power-supply at SURAnet in College-Park broke, the bypass does not seem to work. Enss136, Enss145 and the rest of FIX-E down.
931118	Link to Norway down due to a failure in a 144Mb-system in Norway
931118 19:26	BGP instabillity problems between CERN EBS1-EBS2
931119 13:00	Full routing enabled on Ebone
931119 14:31	Stockholm Amsterdam line is down. Problems with a card in Hammarby (Stockholm) temporarily fixed
931121 15:38	Stockholm-Washington down due to a 565MB cable-fault in Germany
931122 17:30	tftp.ebone.net crashed with a disk hardware problem. This old Sun-3/50 was thus replaced by a Sparcstation-1
931125 15:12	CERN-Washington down due to PTT cable problem in Bern
931126 14:25	256K line Vienna-RBS1 <-> Amsterdam-EBS2 up and running This line replaces the 128K-line between Amsterdam and Linz.
931127 21:12	Link to Denmark down due to PTT (KTAS) problem
931129	Sattelite link Stockholm-Tartu taken out of production

	Megabytes during 9311	
	Input	Output
NORDUnet-Denmark	27472.9	58246.3
NORDUnet-Finland	200905.7	109973.5
NORDUnet-Iceland	2171.8	6988.7
NORDUnet-Norway	58489.9	130574.8
NORDUnet-Poland	4477.8	15981.9
NORDUnet-Sweden	209828.8	176425.7
NORDUnet-Tallinn	1159.0	3444.3
Ebone-Stockholm-Amsterdam	102008.0	132019.6
Ebone-Stockholm-Bonn	13818.0	22502.4
Ebone-Stockholm-London	30116.7	37206.5
Ebone-Stockholm-US	199363.9	196297.8

	Utilization during 9311			
	Input %		Output %	
	aver	peak	aver	peak
NORDUnet-Denmark	8.91	24.52	18.85	48.03
NORDUnet-Finland	32.51	54.45	17.73	31.70
NORDUnet-Iceland	12.79	56.08	41.04	88.92
NORDUnet-Norway	9.34	19.83	21.14	41.70
NORDUnet-Poland	0.91	2.39	3.30	7.98
NORDUnet-Sweden	34.04	75.48	28.61	63.60
NORDUnet-Tallinn	6.02	26.96	17.82	48.98
Ebone-Stockholm-Amsterdam	22.07	45.70	28.71	56.75
Ebone-Stockholm-Bonn	17.96	57.15	29.18	65.64
Ebone-Stockholm-London	46.30	87.54	57.97	91.82
Ebone-Stockholm-US	52.28	81.49	50.98	78.68

	Kbps during 9311				
	Input		Output		Max
	aver	peak	aver	peak	speed
NORDUnet-Denmark	91	251	192	492	1920
NORDUnet-Finland	666	1115	363	649	1984
NORDUnet-Iceland	7	31	23	50	56
NORDUnet-Norway	191	406	433	854	1984
NORDUnet-Poland	19	136	67	401	1920
NORDUnet-Sweden	727	1964	609	1519	2048
NORDUnet-Tallinn	4	17	11	31	64
Ebone-Stockholm-Amsterdam	338	702	439	872	1536
Ebone-Stockholm-Bonn	46	149	75	170	256
Ebone-Stockholm-London	129	894	154	597	256
Ebone-Stockholm-US	790	1282	778	1248	1536