

EARN EXECUTIVE

Proposal for changes to Nordic international links

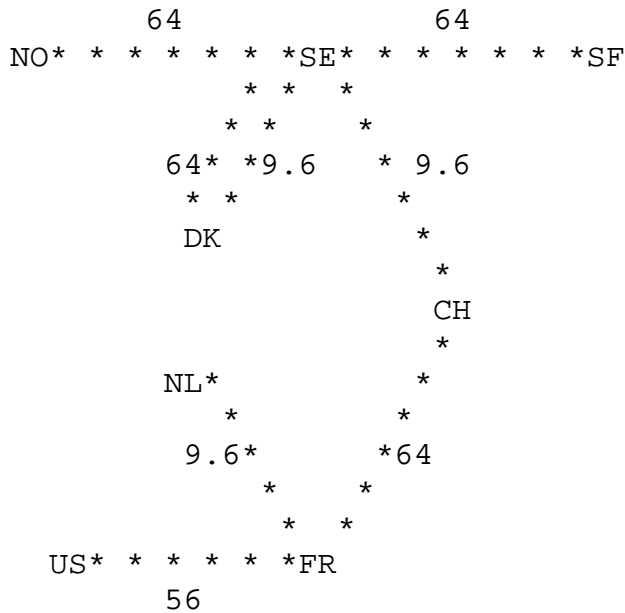
issued by  
F Greisen  
May 18, 1989

-----  
----

The EARN Executive is requested to ratify the following international line changes.

Plan for new EARN configuration in the Nordic countries.  
=====

The existing BSC links relevant to the plan, plus the Nordunet links are shown in the figure below.



As can be seen, the Swedish node SEARN (shown as SE) distributes traffic to the four Nordic countries. The objective of the present plan is to off-load EARN traffic from that node as soon as possible. Please note that the plan only addresses the present distribution of EARN traffic over BSC and RSCS and it has no implications on the plan to run EARN traffic over OSI via the Stockholm to Amsterdam link (not shown in the figure) and the Nordunet backbone.

Also it should be considered that DECNET traffic is now starting to flow between the Nordic countries and CERN over the Amsterdam link, decreasing the importance of CERN as compared to the US for EARN traffic.

#### Phase 1

-----  
The old 9.6 link DK-SE is coupled to the 9.6 link SE-CH and the EARN routing tables are changed to place SEARN after the node Danish node NEUVM1. A 9.6 channel in the 64 kbps link DK-SE is used to route traffic from NEUVM1 back to SEARN. To implement this change as soon as possible, changes in the EARN routing tables can be made in CH, SE and DK independently of the monthly update cycle.

The traffic to Finland may temporarily be run over DECNET from Copenhagen instead of from Stockholm.

#### Phase 2

-----  
A new 9.6 link is installed between DK and NL (Nijmegen). The 9.6 link between SE and CH and the 9.6 link between DK and SE are cancelled, and the BSC traffic from DK to SE is run over the 9.6 channel of the 64 kbps link.

The direct 9.6 DK-NL link is preferred to bandwidth on the 64 kbps Stockholm to Amsterdam link because the latter solution would require a local line Amsterdam to Nijmegen with yet another modem eliminator and band-split equipment.

#### Phase 3

-----  
As soon as the EARN/X.25 solution in Europe and its continuation to the Nordic countries is ready, the 9.6 link DK to NL is cancelled and traffic is run over the installed Stockholm to Amsterdam link. The EARN traffic is then transmitted via Nordunet and the G-boxes. This is also the present plan.

#### Time and action plan

-----  
Letter to Nordic countries, the EARN directors in NL and CH and the EARN executive committee: May 17 (UNI-C).

Agreement on plan: May 24 (all).

Order line DK-NL: May 25 (UNI-C).

Join CH-SE link with SE-DK link: Beginning of June (Qz).

Change routing tables: Beginning of June (UNI-C, Qz, CERN).

Phase 2: When line DK-NL is delivered, maybe August.

Phase 3: When solutions are implemented, maybe Fall 1989.