DALNET PROJECT MANAGERS MEETING

Detroit Public Library
May 2, 1994, 1:00 - 4:00 p.m.

Agenda

1. Introductions

2. Determining Ethernet Requirements/Options for DALNET Libraries
    -- Working Session
    Goal: Develop information to give to Don Riley of NSI to help
    us plan for ProPac, InfoShare, etc.

3. Plan for June 1st Meeting with Don Riley

    - Purpose of Meeting
    - Invite others? e.g., Jeff Ogden of MERIT
    - Time/Place?

4. Progress Reports

    - MRLT PACLink Project
    - PACLoan for DALNET
    - QuickReports Schedule
    - MDAS Databases
    - CPU Upgrade
    - Other

5. Announcements

    - WCCC MDAS
    - Highland Park Public
    - Other?

L. Bugg
5/2/94

LB94-219

DALNET PROJECT MANAGERS MEETING

May 2, 1994

Minutes

Present: L. Bugg, D. Adams, G. Ellis, I. David, J. Flaherty,
          K. Gauri, P. Jose, W. Kane, M. Klein, H. Ma, S. Martin,
          J. Murray, P. Noll, D. Roe, J. Smith, C. Wecker

Guests: D. Cwiertniewicz, M. Lessins (WSU C&IT PaSS)

I. Introductions

The meeting began with introductions. Phyllis Jose was
welcomed as the new Project Manager at Oakland County Law
Library. L. Bugg also introduced three people that were
invited to lend their technical expertise to today's meeting:
Paul Noll of the Detroit Public Library and Dan Cwiertniewicz
and Matt Lessins from WSU's C&IT Planning and Support
Services.

II. Determining Ethernet Requirements/Options for DALNET Libraries

The major objective of this meeting was to begin planning for
moving DALNET libraries from the SNA environment to Ethernet
with TCP/IP.   Ethernet TCP/IP are needed for using
Client/Server technology (e.g., PACLoan Interlibrary Loan
Client, ProPac, Horizon). This meeting was a continuation of
a session held in Fall 1993 with John Florian (NSI) that
provided a "tutorial" on Client/Server technology. On June 1,
Don Reilly (NSI) will meet with Project Managers as a
technical expert to advise DALNET libraries on their options
to plan for NOTIS Client/Server implementation.

The goals of this working session included:

- identifying DALNET libraries' current telecommunications
  environments and where they need to be for client/server;
- gathering information to send to D. Reilly before the June 1
  meeting;
- helping individual libraries with planning and budgeting;
- identifying issues that need to be brought to the attention of
  the DALNET Board.

A.   **Current SNA Network and "What Needs to be Changed"**
     (Chart 1)

     L. Bugg began by reviewing the current situation with
     over 1,000 terminals in DALNET libraries communicating
     with the dedicated IBM 9121 CPU over the SNA network.
     The new RS6000 UNIX machine ("tag") has been installed as
     the Z39.50 server on the Ethernet network to be used for
     PACLink/PACLoan.

     She then added to the diagram the additional "route" that
     needs to be in place for DALNET workstations to
     communicate via the Ethernet network. As this scenario
     evolves, some DALNET workstations will continue to come
     in through the SNA network for certain NOTIS functions
     while other workstations will use the new Ethernet route.

B.   **SNA vs. Ethernet Needs/Functions**

     L. Bugg then discussed NOTIS functionality and network
     needs. Access over the Ethernet is necessary for:

     1.   PACLoan Client: ILL staff need to use TCP/IP on a
          Windows-based machine coming in over the Ethernet
          network. OU and WSU plan to "pilot" this client by
          Fall 1994. Other DALNET libraries may be ready
          soon after that.
     2.   ProPAC Client: LUIS workstations need to be 486
          PCs using TCP/IP on the Ethernet. With the ProPAC
          software, the workstation becomes a Z39.50 client
          able to go out on the Ethernet to any Z39.50
          compliant servers (NOTIS and non-NOTIS sites) and
          retrieve and display records in a NOTIS screen
          format. WSU/DALNET can get 58 copies of this
          client as a result of the PACLink software license.
     3.   Horizon: NOTIS's next generation system is
          entirely Client/Server. The "window" for planning
          for and migrating to the next generation system
          like Horizon is estimated to be at least two to
          three years.

     Access over the SNA Network is needed for those NOTIS
     functions which still rely on a fixed terminal ID:

     · Circulation functions (fixed IDs will no longer be
        necessary for circulation under Release 5.2, which
        probably will be implemented late 1995/early 1996);
     · GTO;

- VPS Distributed Printing; and
- Navigator (which controls the choice on the database selection menu of MDAS and OPAC databases, PACLink databases, downloading and printing, location-based catalogs, etc.)

NOTE: If we could find a way to handle these fixed IDs in the Ethernet network, we could phase out SNA more quickly.

C. **Different DALNET SNA Configurations**

L. Bugg then reviewed the five different DALNET SNA configurations:

- IBM 3x74 Controllers: DPL, WSU, OCLL, OU, UDM, and WCCC's Technical Services;
- Telexes (necessary for ALA character set): DPL, WSU, UDM, OU;
- LAN with 3270 Gateway: 4 Hospitals (Token ring), Walsh (Ethernet), and WSU (Token Ring and Ethernet);
- Front End Processor to Front End Processor (3725): MCC and OCC;
- ASCII Protocol Converter: WCCC uses to enable its Wyse 60s (ASCII) to "talk 3270" in the SNA environment.

1. <u>3174 Controller</u> (Chart 2): L. Bugg then drew a diagram of what could be added to the 3x74 Controller configurations. There were three options that could be used in this environment:

    a) Separate high speed (56 Kbps) phone line to Ethernet network.
       -- needs hub (concentrator), router and modem on each end;
       -- multi-dropped phone line for Ethernet connecting multiple buildings.
    b) Use of Frame-Relay Circuit with one connection at WSU going out to many individual lines at DALNET sites.

    NOTE: For options a and b libraries would keep their circuits into the SNA network; Ethernet would require additional lines until SNA is no longer needed.

    c) "Multiplex" SNA and Ethernet over a single circuit. This option may be too expensive for a short-term solution.

2. <u>Telex</u>: Telex options were the same as for the 3x74 controller configuration.

3. <u>LAN with 3270 Gateway</u> (Charts 3 - 4): With this configuration, libraries currently have a gateway on their LANs with a modem and a dedicated phone line "going out to" the WSU SNA network.

    Option 1 (Chart 3): They would add to the LAN a "router" (dedicated machine with either a Token ring or Ethernet card as needed), a CSU/DSU (like a modem, e.g., Digital Link), and a high speed 56 Kbps line to go to the Ethernet network,
    Option 2 (Chart 4): The two DMC libraries have a unique situation with their potential Ethernet access through the DMC's fiber optic backbone connection to the WSU network and FDDI rings. These libraries could add Ethernet access to their LANs via the DMC rather than with a second dedicated line to WSU. They would still need to have <u>both</u> SNA and Ethernet communications.

    L. Bugg reviewed the following LAN terminology:

    a) Topology: Ethernet or Token Ring
       -- uses Ethernet or Token ring network cards in PCs;
       -- uses Ethernet connections to a concentrator or Token Ring cables into a MAU.
    b) Communication Software: SNA 3270
                                TCP/IP
                                IPX (Novell)
    c) LAN Software: Netware (Novell)
                     PCLan (IBM)

4. <u>Front End Processor to Front End Processor</u> (Chart 5): This configuration would have similar needs to the 3x74 controller configuration with the necessity of adding routers, modems, and a new high speed line for Ethernet connection.

5. <u>ASCII Protocol Converter</u> (Chart 6): Wayne County Community College is installing an Ethernet network at its campuses to which the library buildings could connect. This is the only DALNET site that may be able to use the NOTIS TermPac "terminal client" option.

6. <u>Frame Relay Circuit</u> (Chart 7): D. Cwiertniewicz and M. Lessin talked about this option for DALNET libraries' Ethernet connections. This capability provided by Ameritech would:

-- reduce the need to manage many individual lines at the WSU end;
-- eliminate each library's need to provide separate modems at the WSU side of the Ethernet network;
-- provide at least a 56 Kbps line.

This option may have a lower start-up or one-time cost from individual Ethernet circuits, however, the ongoing or annual costs may be higher.

Cost-sharing for the WSU end of this option would have to be determined.

III. <u>June 1 Meeting with Don Reilly</u>

The meeting with Don Reilly will be held on Wednesday, June 1 at 1:00 at Oakland University. L. Bugg will also invite Jeff Ogden from MichNET/MERIT to join us at this meeting. This meeting will primarily be for Project Managers. L. Bugg will ask someone from the WSU C&IT staff to attend the June 1 meeting also.

We would like Don to give us his insights as to our assumptions about the need for Ethernet and SNA for NOTIS, about our migration options from SNA to Ethernet, and about NOTIS functionality in the client/server environment.

L. Bugg will also forward the following specific questions from today's meeting to D. Reilly for him to address:

1. **What are the Winsock compatible software packages that will work with PACLink/PACLoan and ProPAC?**

2. **How does Navigator work with ProPAC? Can DALNET control the choices that appear on the database menu?**

3. **Is circulation status displayed at ProPAC client workstations?**

4. **What hardware and software does TermPac require?**

5. How does ProPAC access the Internet? Where are IP addresses stored for connections?

6. Could a terminal client like TermPAC be located at DALNET sites, e.g., at OCC or WCCC, rather than at the WSU "host" site?

7. Can we handle fixed terminal IDs in Ethernet so we can completely phase out SNA for NOTIS? Four options to investigate are:

    a) McGill's TN3270 software;
    b) Use of IBM 3172 as a terminal controller;
    c) Map IP addresses to fixed CICS terminal IDs, e.g., with IBM's TCP/IP software;
    d) Mapping individual logon IDs to terminal IDs.

    Do any of these options solve the problem? Are there other solutions?

    NOTE: UM and MSU are already using McGill's software; Indiana University uses option b.

8. Is "multiplexing" 3270 SNA and TCP/IP Ethernet over a single circuit an affordable option?

IV. Progress Reports

A. **MRLT PACLink Project**

    The software has been installed at WSU and we were able to successfully "link" to NOTIS's test database twice. University of Michigan hopes to have PACLink installed by the end of May. Testing with one or both of the MRLT sites should be possible by mid-June; implementation of PACLink in production is slated for August. ILL staff from MRLT libraries are reviewing the impact PACLink may have on ILL workload.

B. **PACLoan for DALNET**

    C. Wecker announced that the PACLoan/Intercampus Loan (ICL) Pilot Team will begin meeting the week of May 23. The Team consists of representatives from Oakland University and Wayne State University -- the two sites that will do the initial testing. Plans are to bring ICL into production between these two sites by Fall.

C.   **QuikReports Schedule**

The Systems Office will be developing a schedule for running QuikReports based on the results of the surveys completed by DALNET sites.   These reports will begin running regularly in July, after the CPU upgrade.

D.   **MDAS Databases**

W. Kane updated the group on the Wilson pricing proposal, saying that they quoted a price per DALNET library, but that WSU has yet to calculate the costs of the loader into the equation.   It's expected that a firmer price will emerge at the next DALNET Board meeting. Similarly, ISI quoted a price for DALNET libraries, but this price is negotiable. PsycInfo is now in the WSU pipeline for future MDAS databases. We have received a sample data tape from Books in Print, but major questions about the loader program remain, since the records are not in MARC format.   A reminder--the CNHL and CCAR/JR free trials expire at the end of June.

E.   **CPU Upgrade**

This is scheduled to arrive on 6/21 and be installed the weekend of 6/25.   Installation will be done by 3 IBM people and will take 8 - 10 hours. The installation will be done on Saturday night/Sunday morning and we do not expect it to cause NOTIS downtime.   The upgrade will double both the processor speed (from 12 to 25 MIPs) and memory (from 64 to 128 MB).

V.   Announcements

A.   **WCCC MDAS**

J. Flaherty announced that WCCC has gotten the approval to license MDAS software. Their access will begin July 1 with ERIC and WILS.

B.   **Highland Park Public Library**

H. Ma announced that Highland Park (which is part of the Detroit Associated Libraries cooperative that includes Detroit Public Library) will begin its NOTIS implementation in June. They will appear on DALNET as a separate Processing Unit (HP).   Highland Park has no machine readable records and will create its records by deriving from the DALNET database.

A special Project Managers meeting will be held on Wednesday, June
1, at 1:00 p.m. at the Oakland University Library. Free parking is
available behind the Library. I. David will supply maps as needed.

Notes by,

Charlene Wecker
May 16, 1994