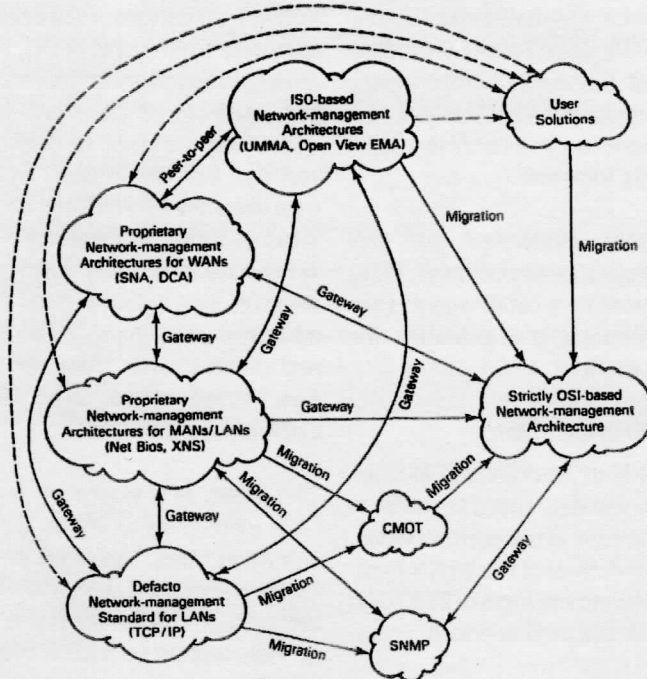


DATA NETWORKER

MANAGEMENT INFORMATION SYSTEMS

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What Hath Man Wrought???



TCP/IP, IPX, FTP, NFS, PC/TCP, SMTP, SNMP, CMOT, ... my god, where does it end??!! The world of data communications and networking has been opened to us and, to the layman (layperson), it is confusing, mysterious, and sometimes frightening. We hear engineers and specialists talking in weird languages and appearing as though they know what they are talking about. Then suddenly one day when we ask a simple question like "How do I read my E-mail?", we are immersed in cryptic acronyms and inundated with questions like "Do you have PC/TCP on your machine?" or "Do you want to read your cc:mail, your VMS mail, or your SMTP mail?"

Well, earth people, don't despair - there is hope! And we plan to clear the air of some

of the mystery in a series of these simple newsletters. But we must first accept that it has happened, that we are a part of it, and that it holds significant potential for improved job performance, both individual and Divisional. This is through access to extensive educational, research, and business news, opportunities, and activities.

This month's newsletter will address two primary areas: first, connection to the network, or "Who ya' gonna' call?" and second, "How do I get to my E-mail?"

The Network Team

The first question is answered in the article "The LDS Network Team" on pages 2 and 3. This is a background summary and outline of the functions performed by the Network Team, with a listing of the Subnet Administrators and support personnel.

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E-Mail(Electronic Mail)

by Dale Dennis

I have been asked the question "What is E-mail and what is it used for?"

To some of us the term is very common, but to the uninitiated it is a term tossed about freely by business people which conjures up strange images. A simple definition of E-mail states it is a messaging system used by individuals connected to a computer network to send text, data, graphics, etc. from one computer to another. The destination computer may reside on the same network or, if inter-networking is available, on a distant network in another city or Division. The delivery of E-mail messages is done by computers and is based on the destination address and is based on a standard E-mail addressing scheme. E-mail has been referred to as the "personal computer counterpart of FAX".

It is not the purpose of this Newsletter to describe how to use specific E-mail software. Each individual is responsible for learning to use the E-mail software of their choice either through supplier documentation or training classes. This Newsletter will describe how to access the LDS mail systems depending upon what computer you are using. Please contact your Subnet Administrator for information on using your E-mail software.

There are several E-mail systems in use at LDS: VMS mail, Lotus cc:mail, Microsoft Mail, UNIX mail, etc. At LDS we have elected to let the choice of an E-mail system be an individual preference (within reason), as we have done with spreadsheets and word processing. This allows flexibility as mail systems mature and minimizes resource usage.

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E-Mail (Electronic Mail)

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Since Loral Corporate has selected cc:mail as a defacto standard, we feel it will proliferate rapidly. In the meantime, however, you may select from the E-mail systems in use today. To accomodate multiple mail systems, your mail will be processed through a gateway and converted to a common format for transmission. It will then be re-converted at the destination. The ultimate objective is to have an X.400 mail gateway for all conversion.

If you are using a Macintosh, please see Bob Buell's article below. If you are on a PC or a UNIX workstation, please see Mike Rhodes' article in the next column.

Macintosh E-Mail

by Bob Buell

Setup:

1. Run the application Eudora (public domain E-Mail program)
2. Select the "Configuration..." option under the "Special" menu
3. Fill in the following fields in the resulting dialog box:
 - POP account: your account on the machine that serves your mail (buell@lds080.lds.loral.com)
 - Real Name: your name with normal capitalization (Bob Buell)
 - Connection Method: select MacTCP
 - SMTP Server: the name of the machine that serves your mail (lds080)
 - Return Address: the return address that will be shown in the from field on messages you send, e.g. (bob_buell@lds.loral.com)

Use:

1. Run the application Eudora - if configured properly Eudora will automatically log-on to your mail server and download any mail that is there for you.
2. Mail can be read by double clicking on the message header line of the message of interest in the "In" mailbox.
3. Mail can be sent by selecting the "New Message" option from the "Message" menu.

VMS or UNIX Mail

by Mike Rhodes

To access VMS mail or UNIX mail, you must have a terminal, personal computer or workstation connected to the network. You must then determine where your mail is to be delivered. Contact your Subnet Administrator, the Mail Services Administrator (Michael Rhodes), or the Vax Services Administrator (Michelle Crawford) to establish your mailbox location.

With your mailbox established, you will know where to login to read your mail. How you login is dictated by what device you are using. The following is a guideline for accessing these services.

Sun or UNIX Workstations

- . If your mail is to be delivered to your workstation, you don't need to perform any special access to use mail services.
- . If your mail is delivered to a UNIX host, you will need to remote login or TELNET to that host to use mail services.

rlogin *host-name* or
rlogin *host-name -l account-name* or
telnet *host-name*

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What Hath Man...

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E-Mail

The second item is covered in a series of "If you are on a ..., this is what you do: ..." articles. We have covered Mac's, PC's, and Unix workstations.

Once you have a mail account on one of the servers, you may use E-mail to communicate with other LDS employees, or with other Loral Divisions via the worldwide Internet. You will need to contact the destination individual for his/her Internet address.

Next Month

In the next issue we will explore the Internet, including the News Services and the myriad of research and educational information.

- The Editor

The LDS Network Team

by Dale Dennis

The Network Team grew from a need to provide internal support for an increasing number of LDS departmental LANs and network operations. We initially drew upon expertise from Loral WDL, San Jose, CA, an organization which has been in this field for a number of years providing network consulting services throughout Loral. It rapidly became evident LDS needed its own internal networking knowledge. Instead of hiring and staffing new positions, we elected to raise the level of expertise of some of our existing employees through education, seminars, consulting services, and presentations from vendors, such as Sun Microsystems, IBM, DEC, Anixter, Cabletron, 3-Com, etc.

The Team is a matrixed organization of LDS employees acting as LAN or Subnet Administrators. Each has the responsibility for a specific LAN or networked group and provides implementation, training, and service support to his/her respective area. The Team meets regularly to discuss problems and review LAN requirements.

The Team responsibilities range from initial LAN configuration and design to implementation, training, and service. Functions are not specific to any one individual; all are responsible. This approach is rapidly building LDS' networking expertise with actual hands-on experience.

Any department requiring networked functions or having network problems should first contact the appropriate Administrator or Team member (or the author). The Team will review the requirements or problem and take appropriate action.

Help Desk functions and support may be reached at any one of three extensions: MIS, Shirley Buerge, X5386; CSG, Michelle Crawford, X5333; or MIS Operations, X5377.

See the adjoining page for an outline of the Network Team Responsibilities and a listing of Subnet Administrators and Support personnel.

LDS Network Team Responsibilities

- LAN Design and Implementation
 - Configuration: Server - speed, disk, memory, O/S, etc.
Clients - speed, disk, memory, etc.
Network - structure, subnet, hubs, SNMP, etc.
 - Facilities Work Orders
 - Wiring: 10BaseT, 10Base2, hubs, IDF, Telco, fiber, etc. -
 - Ordering
 - Hardware installation
 - Software installation
 - Training: user, administrator, backups, etc.
- Network Monitoring
 - Help desk(s)
 - NetView, SunNet Manager
 - Trouble Reporting
 - Service Dispatching
- Service
 - Service Request procedure
 - Logging requests
 - Prioritizing
 - Investigation and analysis - estimating
 - Assignment
- Troubleshooting
 - PC's and workstations
 - Communications
 - Network components: hubs, transceivers, etc.
 - Wiring
- PC and Workstation Repair
 - In house: replace boards, monitors, disks, etc.
install memory, disks, communications, etc.
minor repairs
 - Outside: motherboard, monitor, printer and other
major repairs
- Recording
 - Service Requests
 - Time charges
 - Network configurations
 - Hardware configurations
 - Software
 - Wiring
 - Inventory: memory, disks, boards, monitors, parts, etc.

Network Administration

MIS - D. Dennis

Subnet Administrators

Aviation Recorders	- P. Decker
CPS-100	- C. Arterton
Customer Support	- K. Critchlow
EDA	- W. Lockwood
Fabrication	- A. Marion
Finance	- D. Hertzler
LDS Domain Server	- M. Rhodes
MIS	- R. Heaton
Q/A, M/E, Purchasing	- G. Bowers
Sys Eng, Cust Sup, et al	- M. Crawford
Sys Flr, OS90, et al	- D. Allers
SPS	- B. Buell
Tech Pubs - Eng.	- M. Andreotta
Tech Pubs - Illus.	- K. Lignore
Tech Pubs - A/R	- C. Mammelli

Key area Administrators

CPS, CAE, Pubs,	- C. Arterton
SSD	- T. Fannin
Mkting, Fin, Mfg	- M. Rhodes
Recorders	- P. Decker
SPS	- B. Buell

Internet Education & Training

Access and services - B. Buell

Hardware-Hubs, Router, Cabling/Wiring/Fiber, PCs, Workstations, etc.

All	- E. Domrzalski
LDS	- D. Hertzler
Areas	- B. Kirby
	- K. Smith

VMS or UNIX Mail

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Once logged into the UNIX host you may use its unix mail services.

If your mail is delivered to WORLD, you will need to login to WORLD. Note: it is not recommended that you use the Sun Command facility to do this as the VT emulation facilities do not function well. It is recommended that you use the XTERM facility. Invoke XTERM and then remote login or TELNET to WORLD.

rlogin *world* or
telnet *world*

Once logged into WORLD you may use its VMS mail services.

DEC Terminals

If your mail is delivered to WORLD and you are already logged into WORLD, you don't need to perform any special access to use mail services.

If your mail is delivered to a UNIX host, you will need to remote login or TELNET to that host to use mail services.

rlogin *host-name* or
rlogin *host-name -l account-name* or
telnet *host-name*

Once logged into the UNIX host you may use its unix mail services.

Personal Computers with Network Facilities

Using PC/TCP

If your mail is delivered to a UNIX host you will need to remote login or TELNET to that host to use mail services.

rlogin *host-name* or
rlogin *host-name -l account-name* or
telnet *host-name*

Once logged into the UNIX host you may use its unix mail services.

If your mail is delivered to WORLD, you will need to remote login or TELNET to WORLD to use mail services.

rlogin *world* or
telnet *world*

Once logged into WORLD you may use its VMS mail services.

If you don't have PC/TCP, you may use the TCP/IP Gateway (Catapult).

Setup

If your PC is on a Novell network with a file server, the Catapult user software must be installed on the file server. Contact your system administrator to gain access to the software.

If your PC is not on a Novell network, IPX and the Catapult user software must be installed on your PC. Contact Dennis Hertzler (X5378) for this installation.

Using the TCP/IP Gateway

Enter the command CATSTART to invoke Catapult drivers.

If your mail is delivered to a UNIX host you will need to remote login or TELNET to that host to use mail services.

rloginvt *host-name* or
rloginvt *host-name -l account-name* or
telnet *host-name*

Once logged into the UNIX host you may use its unix mail services.

If your mail is delivered to WORLD you will need to remote login or TELNET to WORLD to use mail services.

rloginvt *world* or
telnet *world*

Once logged into WORLD you may use its VMS mail services.

Information for using mail services can be found in the following manuals.

VMS Mail - VMS Mail Utility Manual
-manual # AA-LA07A-TE

UNIX Mail - SunOs User's Guide Getting Started -manual # 800-3830-10
or

The Whole Internet Catalog & User's Guide -by O'Reilly & Associates, Inc. - Manual # ISBN 1-56592-025-2