16838

Greetings. Jon Postel says you are wondering about the NUTS Notes series. They are our collection of essentially random documents, inteneded to facilitate use of the Network (Network Use Technical Series). They come from anywhere on the net, which is why a pathname to the document is given in the header. If you want to distribute them to anyone else, please fell free to do so, but don't attribute the document to us, unless we actually generated it (authorname in the upper right corner will indicate affiliation.

Indexing and cataloging:

Still interested in using your stuff. we have copies of the codes, etc., and would like to begin to learn how to use them; perhaps also investigate possiblities for altering (augmenting) them somewhat.

Do the codes for an entry all have to be in the same statement? It is visually painful to look at an entry. Being able to break them into sub-statements wuould be nice.

How's the weather?
Bye.
d/

1

16838 Distribution
Jeanne B. North,

(J16838) 29-MAY-73 11:59; Author(s): David H. Crocker/DHC;
Distribution: /JBN; Sub-Collections: NIC; Clerk: DHC;

**839

I have to type TERM TI to the EXEC before I can get echoing. This is very painful and unpleasant. I vote for changing back to the old default.

1

16839 Distribution
Diane S. Kaye, Harvey G. Lehtman, Charles H. Irby,

(J16839) 29-MAY-73 12:06; Author(s): David H. Crocker/DHC;
Distribution: /BUGS; Sub-Collections: NIC BUGS; Clerk: DHC;

DHC 29-MAY-73 12:11 16840

IMNLS

WE are interested in the new IMNLS. As per your note, am contacting you. (touchy-feely time).

d/ 1

16840 Distribution
Donald C. (Smokey) Wallace,

IMNLS

(J16840) 29-MAY-73 12:11; Title: Author(s): David H. Crocker/DHC;
Distribution: /DCW; Sub-Collections: NIC; Clerk: DHC;

16841 Distribution
Diane S. Kaye, Harvey G. Lehtman, Charles H. Irby,

JBP 29-MAY-73 13:16 16841

nls echoing for network customers

please fix default modes so that nls echos for network terminals or
let me have some way to get nls echoing automatically. 1

JBP 29-MAY-73 13:16 16841

nls echoing for network customers

(J16841) 29-MAY-73 13:16; Title: Author(s): Jonathan B. Postel/JBP;
Distribution: /BUGS; Sub-Collections: NIC BUGS; Clerk: JBP;

MDK 29-MAY-73 13:18 16842

TNLS Courses in June

Dirk ... Your (IJOURNAL, 16827, 1:w) "Plans for TNLS Courses in June" contain incorrect dates. The BBN course is Mon thru Fri, hence 18-June thru 22-Jun. The Illinois course is Mon thru Wed, hence 25-June thru 27-June. ... Mike. 1

16842 Distribution
Dirk H. Van Nouhuys, Marilyn F. Auerbach,

MDK 29-MAY-73 13:18 16842

TNLS Courses in June

(J16842) 29-MAY-73 13:18; Title: Author(s): Michael D. Kudlick/MDK;
Distribution: /DVN MFA; Sub-Collections: SRI-ARC; Clerk: MDK;

I finally looked at the substitute command

I tried the new substitute command today (finally) and I think it is much better and more clear. The only thing I didn't like was having to tell it that I was finished. That seemed unnecessary to me, but there may be a good reason for including it. I've heard rumors that in a new version it will be gone, if so, good

1

16843 Distribution
Charles F. Dornbush,

SRL 29-MAY-73 14:03 16843

I finally looked at the substitute command

(J16843) 29-MAY-73 14:03; Title: Author(s): Susan R. Lee/SRL;
Distribution: /CFD; Sub-Collections: SRI-ARC; Clerk: SRL;

INTRODUCTION 1

The RINS effort is "development work on a small, computer-augmented information system oriented toward serving the 'intelligence' needs of a research (and/or) development community." (Journal,8278,2a). "...in it ARC strives to produce an operating intelligence system to provide an active community of system developers with the information they need to understand about their outside world." (Journal,8278,2c). 2

The project specifically works toward progress in four areas (as stated in proposals SRI ISU 71-15, January 25, 1971 and SRI ISU 72-197, December 26, 1972): 3

Develop a solid, prototypical research-intelligence data base over a limited subject domain in an early test case. 3a

Add to or modify the computer aids, developed under ARPA sponsorship, that will be used to support RINS processes. 3b

Integrate the data base and tools of RINS into the working life of ARC researchers and other communities of users. 3c

Develop augmented management and operations for running the research-intelligence process. 3d

What follows is a viewspec-oriented analysis of the steps in a total intelligence system, and areas of present strength and weakness at ARC. Top level statements are steps in a system, second level statements are areas of activity related to these steps in the system. Subordinate numbered statements are specific aspects and examples. Lowest level statements are comments on strengths (S) and weaknesses (W) of ARC in relation to these specific examples. 4

OUTLINE OF ANALYSIS 5

To merit the term "system" a group of processes should combine to form an orderly working totality. A number of information-processing capabilities developed in areas of accidental interest will not necessarily form a system. The truism that one cannot automate a system until the system can be run manually is applicable, but more importantly, a system cannot be said to be augmented until a true system exists. 6

(I) Dynamic, aggressive, means of intelligence collection 7

(II) Capture of intelligence collected 8

(III) Processing of intelligence for initial dissemination 9

(IV) Means of dissemination to groups and individuals 10

(V) Processing of intelligence for reference and retrieval 11

(VI) Means of retrieval 12

ANALYSIS 13

(I) Intelligence collection 14

Much intelligence can be gathered passively. Among the passive means: 14a

Papers by and from close friends 14a1

S - DCE is a prominent figure in information science and receives many valuable works from author friends 14a1a

Papers from colleagues who habitually record and distribute 14a2
S - ARC is an established address which is on many distribution lists 14a2a
Reports received thru exchange agreements 14a3
W - ARC prepared few reports or papers, is in a weak position to attract exchange 14a3a
News spread by correspondence and phone in the invisible college 14a4
S - DCE and other ARC people are members of relevant invisible colleges and have friends who could keep them apprised. 14a4a
W - ARC members are not prompt active correspondents who elicit more information. 14a4b
S - DCE and some other ARC members converse by phone. 14a4c
W - ARC has had an introspective attitude which has not sought news from the community. 14a4d
News from visitors to site 14a5
S - ARC has many informed visitors. 14a5a
S - Recently a log form has been used by DCE and others to record information received from vistors in a form from which it can be retrieved by subject analysis. 14a5b

An adequate body of intelligence, either for a group or an individual, cannot be built passively. Developments of non-friendly rivals and of groups with low publication budgets, with low travel budgets, or general low profile, will be missed. Dynamic means of collection include: 14b

Subscription to and examination of relevant periodicals 14b1
W - Less than a dozen of the periodicals subscribed to by ARC are of research caliber. ARC receives twenty or more controlled circulation and promotional magazines of slight value. 14b1a
Regular examination of announcement and abstract bulletins 14b2
S - For the past year ARC subscribed to the Government Reports Announcement Bulletin, the official source of information on government-funded work. 14b2a
S - For 3 months, ARC contracted with the SRI Library for retrospective search and suggestion of reports 1965-1971, and for clerical work entailed in checking ARC holdings, and in ordering those approved by ARC. 14b2b
W - Cost for this service and lack of precise knowledge of ARC needs on the part of the Library staff makes it inadvisable to buy this assistance. Only one ARC member has been willing to give time to examine the GRA to select publications. 14b2c
Acquisition and examination of lists of publications of other research groups 14b3
W - ARC has no active program of acquisition of such lists. 14b3a

W - Only one member is interested in examining. 14b3b

Visits to other sites 14b4

S - DCE, by virtue of membership on NAS panel on Information Science Technology, visited several information technology sites in 1971. No further visits of any importance have been made. 14b4a

S - NIC personnel have not made visits to ARPANET sites. 14b4b

ARC systems information, folklore 14b5

S - This information is not hoarded, and is willingly shared informally. 14b5a

W - Not all users are in the right place at the right time, and do not get the message. 14b5b

W - Manuals are slow to be written, and do not have links to folklore documents when these are issued. 14b5c

(II) Capture of intelligence collected 15

Conventional means of capture of intelligence should be used until an innovative means is designed and in prototype: 15a

Papers received by ARC members should be channeled through a login process 15a1

S - DCE often wishes to acquire a serial number to use as a link, and relinquishes papers long enough to accomplish this 15a1a

W - Others usually do not submit for recording, possibly because they see little benefit to them. 15a1b

W - Logging alone, without capability to retain a copy in a secure collection, does not cnstitute capture. Often the logged article cannot be retrieved physically. 15a1c

Substantive ARC-related correspondence should be channeled through a login process. 15a2

S - Some of DCE's correspondence receives serial numbers. 15a2a

S - NIC related correspondence passing through the Station is copied if necessary and filed. 15a2b

W - No correspondence received log is maintained, for DCE or others. 15a2c

S - Procedure is written to establish online correspondence log, ready for implementation. 15a2d

Reports and books should receive initial capture processing at the time of receipt if they come unsolicited, or at the time of order if they are ordered. 15a3

S - Procedures are written and have been implemented for report and book processing beginning with the order request. This work is assigned to one person and runs smoothly. 15a3a

Reports of telephone conversations, of conversations at other sites and of information-bearing conversations with visitors to ARC should be collected. 15a4

S - A few of these have been tape-recorded, and the equipment is available. 15a4a
W - Recorded conversations are too lengthy, often low in new information content, and often remain untranscribed, and if transcribed, unread, and if read, unindexed. 15a4b
S - Logs by individuals have been kept recently. 15a4c
W - We could benefit Network users by providing a message recording phone to receive lengthy messages as dictation, in order to have the full text base. 15a4d

Creation of machine-readable documents, in an interactive system or in deferred execution mode, should be practiced. 15a5
S - Display system editing is an augmented system. 15a5a
W - DEX (Deferred EXecution, an ARC-designed method of batch machine input) in its present stage of development seems to offer few advantages over other text editors. 15a5b
W - ARC-developed systems lack some universality. 15a5c
W - Keyboard input is not the natural or preferred method of intelligence recording for many people. 15a5d

New periodical issues should be examined for relevant articles and news. 15a6
S - Procedures exist for this, and some articles are now captured, from the few valuable periodicals received at ARC. 15a6a
W - Only a few journals are examined; no consistent effort is supported to cover ARC's interests. 15a6b

Capture of a reference should not be equated with capture of full text. 15a7
S - Tagging a reference to a publication, by an online citation, for later pursuit is an important capability. 15a7a
W - Inserting an online link which leads to a reference which is in fact only a footnote and does not represent presence of the document is a fallacious link. 15a7b

Augmented means of capture should be devised; capture is one of the greatest lacks in research intelligence flow. 15b

New means of recording and condensing oral information could be pursued. 15b1
W - ARC does not investigate speech compression or other means. 15b1a

Other modes of record than textual and oral could be followed. 15b2
S - ARC now uses a video camera experimentally. 15b2a
W - Training aids in photograph and movie form are not now being used. 15b2b

Copy of published, TTY terminal, manuscript or display text directly to microfiche for storage and all later uses could be considered. 15b3
W - No one at ARC is purposefully following such developments by others. 15b3a

Capture of full documents at ARC usually entails rekeyboarding. 15b4

W - Errors can be, and almost invariably are, introduced in rekeyboarding. The subsequent document cannot be regarded as identical. 15b4a

(III) Processing of intelligence for initial dissemination 16

Initial dissemination, as distinguished from retrieval dissemination, can be treated as serving three functions: giving notices which have time value, disseminating information ostensibly new to a general or specified audience, providing selective dissemination to recipients through a receiver-initiated filter process. Processing the intelligence for these purposes now entails the following: 16a

Meeting announcements, agenda and directions, and transient information such as system status and Network status require quick, accurate processing, including ARC-wide as well as outside dissemination. 16a1

S - We can now provide one-day input-to-output service on hardcopy announcements and such news. 16a1a

W - Journal hardcopy processing takes from 4 hours to several days. 16a1b

Basic documents prepared online and made available online and in hardcopy need occasional updating. Procedures have been worked out to make machine processed editing changes and replacements. 16a2

S - Changes to the online copies are noted in signatures and by changes in number and date. 16a2a

S - Changes to hardcopy are well documented and status reports allow checks on contents. 16a2b

Text with accompanying non-text information should be kept intact for bulk delivery 16a3

S - We can use the Journal system, when it is operating, to hold online and hardcopy information in form for general or specific delivery, such as to Group members 16a3a

W - We cannot keep nontextual material with the textual. 16a3b

Initial processing should eventually be augmented by these capabilities: 16b

Input should be immediately accepted and subsequently available. 16b1

W - We do not have a means for processing transient information, such as the state of nodes on the Network, for automatic or demand dissemination. 16b1a

File should exactly duplicate input. 16b2

W - Facsimile transmission can achieve this; present keyboarding does not allow this. 16b2a

Information should be so tagged upon input that it can be matched with output specifications set by the recipient. 16b3

S - Citations to documents are now being coded by subject to allow matching for retrieval at a later time. 16b3a
S - Online documents and citations can be coded for a specified subcollection, to drop into a retrieval pocket, a facility now used only in a gross way. 16b3b
W - No mechanism is available to watch for key terms to switch messages to user file. 16b3c

(IV) Means of dissemination to groups and individuals 17

An essential activity of the ARPA Network has been dissemination of documents to sites and individuals. ARC has adopted some conventional means and developed some new means. 17a

Hardcopy document distribution in envelopes and bags 17a1
S - Mails well 17a1a
S - Printed material received from others needs no recasting 17a1b
W - Expensive of materials, time, and labor 17a1c
W - Allows error in transmission of material to proper addressee 17a1d

Hardcopy in folded computer printout 17a2
S - Impressive 17a2a
S - Automatic addressing 17a2b
W - Flimsy; mail room warns probably gets torn or lost 17a2c
W - Allows error in transmission to addressee 17a2d
W - For bulk mailing, more expensive than reproduction 17a2e

Development of online directory of recipients 17a3
W - Still unreliable, often unavailable for changes 17a3a
W - For hardcopy dissemination offers no improvement over addressograph 17a3b

Online message and file distribution 17a4
W - Not universally available for either sending or receiving 17a4a
S - When reliable, will allow a means of dissemination system-related to other terminal activities. 17a4b
S - Allows a chain of related dialog to be established, with contributors able to specify relations 17a4c
W - Until online storage capacity is greater, chain is not complete and no improvement over a manual correspondence filing system. 17a4d

Some unconventional but experimental means could be pursued for comparison with the means ARC is using. Incentives for such pursuit are present limitations on speeds and media for present transmission. 17b

Facsimile transmission 17b1
W - Not yet high quality for photographs 17b1a
W - Expensive 17b1b
S - Fast 17b1c
S - More versatile than text-only transmission 17b1d

Picturephone with videorecorder 17b2

S - Total message transmission 17b2a
S - Realtime interaction 17b2b
W - Not yet available to ARC, but only to some other ARPA sites 17b2c
Telesessions 17b3
S - Realtime interaction 17b3a
S - Relative economy 17b3b
Microfiche of documents 17b4
S - Well-established techniques 17b4a
S - Inexpensive for existing fiche documents 17b4b
S - Low storage and use costs 17b4c
W - Expensive production in small quantities 17b4d

(V) Processing of intelligence for reference and retrieval 18

Retrieval requires tagging and storing items of information so that any item, alone or in combination with others, may be called back when it is useful, whether or not its specific identity is known before retrieval. It is important to successful processing to respect the law that no more can be retrieved than was input in processing, a variation of the law of garbage in, garbage out. 18a

Tagging. Capture of an item can be accomplished as described in Section III by a logging operation. However, logging allows retrieval by one entry point alone, serially (date or number). Adding tags to various elements of the item, such as author, recipient (for letters), and such other items as physical form for books and films allows retrieval by any of these points. 18b

An extensive list of codes has been devised at ARC for tagging the elements of information in all types and forms of items received. 18b1

S - This list of codes and the accompanying procedures were worked out on the basis of long experience in information retrieval. The codes have been extended, and sometimes modified, to take care of the many possibilities encountered or expected. 18b1a

W - This list of codes is too complicated for use by persons other than catalogers, and no subset of the codes has yet been identified for use by an individual researcher for his own files, with instructions which will allow an individual to avoid the pitfalls of most individually-maintained files. 18b1b

No authority list has been developed for standardizing the forms of corporate names or of keywords, 18b2

S - No existing authority list was appropriate for the corporate name mix in the ARC files; a tailored list can be formed when the ARC files become large enough to be representative of the collection to be expected. 18b2a

S - No existing keyword list or thesaurus was appropriate for the collection; a tailored list is to be compiled from machine-manipulated keywords entered by the catalogers. 18b2b

W - Retrieval will be incomplete to the extent that variations and inconsistencies in names or subject words are not allowed for by the human searcher. 18b2c

Storing. For machine retrieval, the cataloging information including all the tagged items must be in machine-readable form. This usually means on cards or tape. 18c

At ARC, all catalog files are online or on tape. 18c1

S - Online files are easily modified and updated, with changes which are inherently necessary in catalog files as items are added, superceded, and sometimes deleted. 18c1a

W - Storage space requires that about 80% of the catalog files be on tape, which is retrievable in a few minutes, but updates and modifications to these files must be batched, and online space must be arranged to allow the offline files to be brought online for these changes. 18c1b

An arrangement of articulated files as contrasted to serial files, with construction for table lookup of corporate addresses, could allow a greater number of items to be stored online at one time. 18c2

W - Presently, the input procedures require the entry of corporate addresses for each item as cataloged, and thus the repetitive storing of the same information for many items. 18c2a

(VI) Means of retrieval 19

Retrieval is dependent initially on the capture, tagging and storing of items. Then programs written for retrieval must be based on the rules established for input format. Online retrieval is expensive of computer time and of storage space, and should be compared in efficiency with alternative offline means for retrieval. 19a

Online retrieval of files 19b

Files created online and stored online can be retrieved by a command to load such a file, or by a link placed in another file which acts to load the linked file on command to link to it. 19b1

S - The capability to place and to retrieve by means of links is a powerful one. 19b1a

W - Many links refer to files which have been removed to tape, and cannot be accessed immediately. For reading, an offline copy may be adequate, and faster. 19b1b

Online retrieval of citations 19c

Online retrieval is possible at this time from indexes to document catalogs. 19c1

S - This is an important capability and has a great potential. 19c1a

W - At this time, the citation files are in a format for reproduction, which makes them wrap around on the TTY or the display, and detracts from their readability. 19c1b

W - Lack of capability to keep the indexes updated by new machine runs results in online versions of files being no more uptodate than hardcopy produced and distributed, and removing any advantage to most online files for retrieval. Exceptions are a few files which are updated by keying input. 19c1c

Online retrieval of items of information 19d

Content searches of full text are possible in an online file. 19d1

S - Ability to do this is advantageous in editing, in long text files, and in index files when searching for words not used as index terms. 19d1a

W - This capability cannot be used when the system is heavily loaded. 19d1b

Items of information about individuals can be retrieved from online files of personnel information. 19d2

S - Retrieval of certain items of data about an individual from an online file by giving his last name or machine ident is very useful. 19d2a

S - Retrieval of a mailing list or of addresses of individuals on a machine-generated index list is an important capability. 19d2b

W - No mechanism presently exits for automatic updating of the index files; either the files are no more uptodate than their printed versions or they must be updated by keyed input. 19d2c

Offline retrieval from machine-generated index files 19e

Programs written at ARC for retrieval have been written in conjunction with the codes and their interpretation by catalogers, with numerous iterations to achieve a match of input and output. 19e1

S - Catalog listings and indexes presently produced are very useful. 19e1a

W - Additional programs are needed to produce indexes to other elements presently coded into the online files. For example, no programs have yet been written to produce indexes by contract number, or by keyword. Present programs for author index need revision to format author's first names. 19e1b

Offline retrieval from manual files 19f

Offline files are maintained at ARC for all items of information for which online files are built. These offline files include files of correspondence, documents, author card files, 19f1

S - Offline files of correspondence and other complete documents act to reduce the bulk of information which otherwise would be required online. Offline files of documents which are journalized and stored on tape make reference to these documents as easy as accessing them online, where the offline files are at hand. 19f1a

W - In an ideal system, online access would continue to retrieval of the final product, without exception. 19f1b

W - Maintenance of offline files of author cards is duplication of effort, and maintenance of offline files of cards by coporate agency, by title and by subject, duplicating the online indexes, would not be a feasible activity. 19f1c

16844 Distribution
Richard W. Watson,

A Status Report on RINS Design Considerations
1973

(J16844) 29-MAY-73 15:27; Title: Author(s): Jeanne B. North/JBN;
Distribution: /RWW; Sub-Collections: SRI-ARC; Clerk: JBN;
Origin: <NIC-WORK>SDISBKGDREV.NLS;7, 29-MAY-73 15:12 JBN ;

On RWW's Suggested Revisions to Journal Citations

Comments on RWW's Recommended Changes (IJOURNAL,16786,1:w) to Journal Citation Format (RWW's formats repeated at end of this note.) 1

Points of Agreement: 2

- author and date-time on first line; (include time because of multiple deliveries each day);
- conserve first-line's space by omitting year, and omitting all but first author (six characters maximum), to get as much of title as possible on first line;
- additional information should be delivered as suggested by RWW as substatement of citation; 2a

- messages should be substatements as with comments;
- messages should be marked appropriately to let the reader know its a message; 2b

Suggestions: 3

- titles should carry over immediately to the second line (not indented, in deference to users with slow-speed terminals), with maximum of 50 characters, i.e. about ten words;
- ALL group author(s) should be shown at substatement level, to conserve space in first-line author field;
- appropriate link should be included with messages, to give reader option of deleting the message and referring to Journal for it;
- messages should be limited to 300 characters (about 60 words, or 5 lines);
- for readability, viewspecs when entering NLS should be xbryn for DNLS, xbrym for TNLS;
- the "AUTHOR COPY" message that appears in the author branch citations should be eliminated (it seems to me to be unnecessary);
- the title field ought to be placed in quotes at delivery time; 3a

Recommendation: 4

- I recommend adopting RWW's Format (2) --- see below --- with some changes, principally that the link PRECEED the title, to make jump to link in TNLS work regardless of what parenthetical expression may be in the title. If this recommendation were accepted, then the citation would appear as follows [note that year is omitted, author field is six characters long, the sample title field contains 49 characters (one less than my suggested maximum) plus quotes supplied by the Journal system, and note that with this format and the suggested limits, half the maximum

allowable title fits on the first line]:

4a

RWW* (AJournal,12345,1:w) 23-MAY 14:37 "This is an Example of a More Complicated Citation."

4b

Authors Continued: DSK JEW Distribution: USC-ISI SRL PR BAH JEW Obsoletes: (12345,) (56787,) Updates: (54321,) (65643,) Subcollections: SRI-ARC NIC Keywords: garbage, suggestion, example

4b1

RWW's Alternatives:

5

Format (1):

5a

RWW 23-MAY-73 14:26 This is a sample of a new citation format showing what it would look like for the simplest collection of information.
(KJournal,12345,1:w)

5a1

RWW* 23-MAY-73 14:37 This is an example of a more complicated citation.
(AJournal,12345,1:w)

5a2

Authors Continued: DSK JEW Distribution: USC-ISI SRL PR BAH JEW Obsoletes: (12345,) (56787,) Updates: (54321,) (65643,) Subcollections: SRI-ARC NIC Keywords: garbage, suggestion, example

5a2a

Format (2):

5b

RWW 23-MAY-73 14:26 This is a sample of a new citation format showing what it would look like for the simplest collection of information.
(KJournal,12345,1:w)

5b1

RWW* 23-MAY-73 14:37 This is an example of a more complicated citation.
(AJournal,12345,1:w)

5b2

Authors Continued: DSK JEW Distribution: USC-ISI SRL PR BAH JEW Obsoletes: (12345,) (56787,) Updates: (54321,) (65643,) Subcollections: SRI-ARC NIC Keywords: garbage, suggestion, example

5b2a

On RWW's Suggested Revisions to Journal Citations

Format (3): 5c

RWW 23-MAY This is a sample of a new citation format showing what it would look like for the simplest collection of information. (KJournal,12345,1:w) 5c1

*** 23-MAY This is an example of a more complicated citation. (AJournal,12345,1:w) 5c2

Authors Continued: SRI-ARC Distribution: USC-ISI SRL PR BAH JEW Obsoletes: (12345,) (56787,) Updates: (54321,) (65643,) Subcollections: SRI-ARC NIC Keywords: garbage, suggestion, example 5c2a

16845 Distribution

Richard W. Watson, Don I. Andrews, Judy D. Cooke, Marcia Lynn Keeney, Carol B. Guilbault, Susan R. Lee, Elizabeth K. Michael, Charles F. Dornbush, Elizabeth J. (Jake) Feinler, Augmentation Research Handbook, Kirk E. Kelley, N. Dean Meyer, Kay F. Byrd, James E. (Jim) White, Diane S. Kaye, Paul Rech, Michael D. Kudlick, Ferg R. Ferguson, Linda L. Lane, Marilyn F. Auerbach, Walt Bass, Douglas C. Engelbart, Beauregard A. Hardeman, Martin E. Hardy, J. D. Hopper, Charles H. Irby, Mil E. Jernigan, Harvey G. Lehtman, Jeanne B. North, James C. Norton, William H. Paxton, Jeffrey C. Peters, Jake Ratliff, Edwin K. Van De Riet, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor, Donald C. (Smokey) Wallace

MDK 29-MAY-73 15:20 16845

On RWW's Suggested Revisions to Journal Citations

(J16845) 29-MAY-73 15:20; Title: Author(s): Michael D. Kudlick/MDK;
Distribution: /SRI-ARC; Sub-Collections: SRI-ARC; Clerk: MDK;
Origin: <KUDLICK>CITE.NLS;2, 29-MAY-73 15:12 MDK ;

CHI 29-MAY-73 16:40 16846

HALF-DUPLEX TENEX BUG

John, Your are right, The TENEX we brought up recently initializes NET connectios to HALF-DUPLEX. We will fix this oversight ASAP. -- Charles. 1

16846 Distribution

Jonathan B. Postel, Kenneth E. (Ken) Victor, Donald C. (Smokey) Wallace,

HALF-DUPLEX TENEX BUG

(J16846) 29-MAY-73 16:40; Title: Author(s): Charles H. Irby/CHI;
Distribution: /JBP KEV DCW; Sub-Collections: SRI-ARC; Clerk: CHI;

JBN 29-MAY-73 16:24 16847

Yes, Catalog Entries Cannot be Split Into Two or More Statements

Dave -- Yes, the codes for all elements for a single entry must be in the same statement; otherwise the catalog programs won't work. Have you looked at them? CPPPROGS and CPPTABLES. Let me know how else we can help; catalog making is a good game if you like it. -- Jeanne 1

16847 Distribution
David H. Crocker, Jeanne B. North,

Yes, Catalog Entries Cannot be Split Into Two or More Statements

(J16847) 29-MAY-73 16:24; Title: Author(s): Jeanne B. North/JBN;
Distribution: /DHC NIC; Sub-Collections: SRI-ARC NIC; Clerk: JBN;

I was very dissappointed to receive Walter's resignation announcement. Having had the pleasure of working with him for a year, I have a great deal of respect for him. I'm sure he will be missed, and I would like to wish him the best of luck and happiness with the Institute for Consciousness Evolution. 1

16848 Distribution

Richard W. Watson, Don I. Andrews, Judy D. Cooke, Marcia Lynn Keeney, Carol B. Guilbault, Susan R. Lee, Elizabeth K. Michael, Charles F. Dornbush, Elizabeth J. (Jake) Feinler, Augmentation Research Handbook, Kirk E. Kelley, N. Dean Meyer, Kay F. Byrd, James E. (Jim) White, Diane S. Kaye, Paul Rech, Michael D. Kudlick, Ferg R. Ferguson, Linda L. Lane, Marilyn F. Auerbach, Walt Bass, Douglas C. Engelbart, Beauregard A. Hardeman, Martin E. Hardy, J. D. Hopper, Charles H. Irby, Mil E. Jernigan, Harvey G. Lehtman, Jeanne B. North, James C. Norton, William H. Paxton, Jeffrey C. Peters, Jake Ratliff, Edwin K. Van De Riet, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor, Donald C. (Smokey) Wallace

(J16848) 29-MAY-73 16:12; Author(s): N. Dean Meyer/NDM;
Distribution: /SRI-ARC; Sub-Collections: SRI-ARC; Clerk: NDM;

VGC 29-MAY-73 17:50 16849

LACK OF MESSAGE WAITING NOTIFICATION

I SENT MYSELF A MESSAGE RECENTLY (A COUPLE OF DAYS AGO), AND IT HAS NOT ARRIVED, NOR HAVE IT GOTTEN ANY INDICATION OF MESSAGE WAITING. HAVE YOU DONE AWAY WITH MESSAGE NOTIFICATION??? I HAVE RECEIVED MESSAGES IN THE MAIL WHICH WERE NEVER INDICATED ON-LINE WHEN I LOGGED IN. IS IT POSSIBLE THAT THESE MESSAGES ARE GOING TO MY OLD ID UNDER UCLA-NMC? VINT CERF (VGC) 1

16849 Distribution
Jeanne B. North, James E. (Jim) White,

LACK OF MESSAGE WAITING NOTIFICATION

(J16849) 29-MAY-73 17:50; Title: Author(s): Vinton G. Cerf/VGC;
Distribution: /JBN JEW; Sub-Collections: NIC; Clerk: VGC;

**16850

As the priniciple critic of our hardware troops (surely the least tactfull). I would like to compliment Martin et.al. on the outstanding job they did on the tasker retrofit of last week. If you havent noticed you can actually tell the difference between commas and periods, colons and semicolons. I understand they are not quite done yet but if they sure get my vote on what they have done so far. To use a really worn out one RIGHT ON. 1

16850 Distribution 1

Donald C. (Smokey) Wallace, Richard W. Watson, Don I. Andrews, 1a
Mark Alexander Beach, Judy D. Cooke, Marcia Lynn Keeney, Carol B. Guilbault, Susan R. Lee, Elizabeth K. Michael, Charles F. Dornbush, Elizabeth J. (Jake) Feinler, Augmentation Research Handbook, Kirk E. Kelley, N. Dean Meyer, Kay F. Byrd, James E. (Jim) White, Diane S. Kaye, Paul Rech, Michael D. Kudlick, Ferg R. Ferguson, Linda L. Lane, Marilyn F. Auerbach, Walt Bass, Douglas C. Engelbart, Beauregard A. Hardeman, Martin E. Hardy, J. D. Hopper, Charles H. Irby, Mil E. Jernigan, Harvey G. Lehtman, Jeanne B. North, James C. Norton, William H. Paxton, Jeffrey C. Peters, Jake Ratliff, Edwin K. Van De Riet, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor 1b

(J16850) 30-MAY-73 06:22; Author(s): Donald C. (Smokey) Wallace/DCW;
Distribution: /SRI-ARC; Sub-Collections: SRI-ARC; Clerk: DCW;

KIRK 29-MAY-73 22:09 16851

I need to use the Journal.

I have 75 transmittal letters with pre-assigned journal numbers that I am supposed to journalize, however I keep getting File Busy -- Try again Later. What should I do? 1

16851 Distribution 1

J. D. Hopper, Diane S. Kaye, Harvey G. Lehtman, Charles H. Irby, 1a

KIRK 29-MAY-73 22:09 16851

I need to use the Journal.

(J16851) 29-MAY-73 22:09; Title: Author(s): Kirk E. Kelley/KIRK;
Distribution: /JDH BUGS; Sub-Collections: SRI-ARC BUGS; Clerk: KIRK;

DVN 30-MAY-73 08:28 16852

For Two-Line Journal Citations

We could avoid a lot of the pushing and twisting of text in RWW's(journal, 16844,) and MDK's [IJOURNAL, 16845, 1:w) proposed journal citations by viewing two lines instead of one (viewspec xbr instead of xb). I see no serious objection to seeing two lines when there really seems to be two-lines-worth of information to be sought at a glance. For example I read [journal,tjcat,1:xbr) quite comfortably although it was not designed for suvh viewing. 1

16852 Distribution 1

Michael D. Kudlick, Richard W. Watson, Jeanne B. North, Elizabeth J. (Jake) Feinler, J. D. Hopper, 1a

DVN 30-MAY-73 08:28 16852

For Two-Line Journal Citations

(J16852) 30-MAY-73 08:28; Title: Author(s): Dirk H. Van Nouhuys/DVN; Distribution: /MDK RWW JBN JAKE JDH; Sub-Collections: SRI-ARC; Clerk: DVN;

JEK 30-MAY-73 07:43 16853

AFDSC account

Mike - I used NLS last week under GUEST and am beginning to appreciate its ease as well as its power. 1

One problem is that my files keep being destroyed under GUEST (as is to be expected). 2

I have tried to login under AFDSC, but just get a ? as a response. 3

If you haven't already, could you please install a user AFDSC with password HRP. 4

If you already have, then please leave a message in GUEST for JEK telling how to access AFDSC. 5

Thank You - John Kohl 6

16853 Distribution 1
Michael D. Kudlick, John B. Kohl, 1a

AFDSC account

(J16853) 30-MAY-73 07:43; Title: Author(s): John E. Kohl/JEK;
Distribution: /MDK JEK; Sub-Collections: NIC; Clerk: JEK;
Origin: <GUEST>AFDSCMEMO.NLS;2, 30-MAY-73 07:40 JEK ;

16854

Jake,

Could you please establsih the following names persons as Network Technical Liaisons for their respective sites and put them on the appropriate mailing lists to receive NIC publications. In particular, could you initially send them NIC 7104. Capt. Mark D. Anway informs us that Air Force Systems Command AFSC) will make a decision relative to the referenced site joining the Network by the end of June 1973.

Lt. Richard Woodard
4950/ACDO
Wright-Patterson AFB, Ohio 45433
(513) 255-6248

Lt. David Hyde
Air Force Weapons Laboratory (ADP)
Kirtland AFB, New Mexico (505) 247-1711 x 3811
Mr. Eddie J. Blackwell
HQ ADTC (TSX)
Eglin AFB, Florida 32542
(904) 882-3734

1

16854 Distribution 1

Elizabeth J. (Jake) Feinler, Steve D. Crocker, Jean Iseli, 1a

(J16854) 30-MAY-73 07:44; Author(s): Jean Iseli/JI; Distribution:
/JAKE SDC2 JI; Sub-Collections: NIC; Clerk: JI;

TRANSMITTAL TO: Carlos Lucena

TRANSMITTAL TO: Lt. K. Diane Shaw
Hq. ESD/MC1
Stop 36
L. G. Hanscom Field
Bedford, Massachusetts 01730

FROM: Marcia Keeney (NIC)
Station Agent 1

At the request of Mill Jernigan, I am sending a copy of the TNLS User's Guide NIC 7590. 1a

16864 Distribution
Station Agent,

MLK 14-JUN-73 18:53 16864

TRANSMITTAL TO: Carlos Lucena

(J16864) 14-JUN-73 18:53; Title: Author(s): Marcia Lynn Keeney/MLK ; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

MLK 14-JUN-73 18:57 16866

TRANSMITTAL TO: Gene R. Cacciamani

TRANSMITTAL TO: Gene R. Cacciamani
American Satellite Corporation
20300 Century Blvd.
Germantown, Maryland 20767

FROM: Marcia Keeney (NIC)
Station Agent 1

At the request of Dave Walden, your name has been added to the ARPANET Satellite Systems Group distribution list. Enclosed are back ASS notes; those that are out of date are excluded. You will receive all future notes on regular distribution. 1a

16866 Distribution
Station Agent,

MLK 14-JUN-73 18:57 16866

TRANSMITTAL TO: Gene R. Cacciamani

(J16866) 14-JUN-73 18:57; Title: Author(s): Marcia Lynn Keeney/MLK ; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

NIC 16867
ASS Note 45

David C. Walden
BBN-NET
June 6, 1973 1

NCC&E Talk
Satellite Packet Communications Session 2

The previous speakers gave a brief history of how satellite channels have been used, presented economic and theoretic arguments for how satellite channels should be used, and stated how the governmental agencies and carriers permit satellite channels to be used. Ignoring all that, I will tell you how satellite channels are actually going to be used, in the ARPA Network. To refresh your memories, the ARPA Network consists of a loosely connected collection of nodes which pass packets of data one to the next on the way from a source to a destination. At each node along the way, packets are held until acknowledged by the next node. 3

To use the new packet, broadcast technology discussed by the previous speakers involves several significant changes to the ARPA Network: it requires adjustment of the existing network algorithms to accomodate the special characteristics of a broadcast, satellite channel; and it requires development of a new type of network node in which will be implemented the procedures necessary to operate a broadcast channel -- we call this type of node a Satellite Interface Message Processor, or Satellite IMP. 4

Satellite, broadcast channels within the existant ARPA Network require the present network algorithms to be modified as follows: 5

to take account of the fact that a broadcast, satellite channel must be considered to have a different capacity than conventional ground lines in the network; 5a

to take account of the enormous delay imposed by a satellite channel as compared to the longest ground channel presently used in the network; and, 5b

to take account of the fact that the dynamic, adaptive routing algorithms at present used in the network expect there to be but one node at the other end of a channel. 5c

Construction of the Satellite IMP entails hardware additions to the standard IMP which, through accurate time stamping of packets, facilitates maintenance of a slotted channel of the type analyzed by Abramson and assumed by Roberts and Kleinrock. The Satellite IMP also requires the addition of sufficient core memory to buffer packets from the time they start up over the 1/4 second satellite hop until the time about 1/2 second later when an acknowledgment for the

packet is returned. Construction of the Satellite IMP further entails software to implement a broadcast protocol such as the Slotted ALOHA system of Abramson or the Reservation system of Roberts. 6

The development of the Satellite IMP is quite far along. Two machines with the necessary additional core are on the floor of our "factory." The slotting hardware has been built and is presently being checked out. Sufficient software to run a conventional (random) ALOHA channel has almost all been written and checked out. Software to operate a Slotted ALOHA channel will be the next step. Implementation of software for a broadcast reservation system awaits the final stages of the comparative analysis of the several reservation systems under consideration; although, even without implementation of the final broadcast reservation system, the first two Satellite IMPs soon will be ready for field installation and production use. 7

Once the first pair of Satellite IMPs are ready for field installation, the question arises of where the first broadcast, satellite channel is to be operated. Obvious possibilities are: 8

between Europe (or the middle east) and the east coast of the U.S. -- the first two European nodes of the ARPA Network are being installed in Oslo and London this month; 8a

between Hawaii and the west coast of the U.S. -- there is already a conventional, point-to-point, satellite link between Abramson's group at the University of Hawaii and the rest of the ARPA Network on the continent; and, 8b

finally, a broadcast, satellite channel entirely within the continental U.S. using one of the proposed domestic satellites -- use of a domestic satellite would have the advantages that there is already lots of traffic to use it, it would be a good "laboratory" as it is imbedded in the conventional ground-based network, and there would perhaps be fewer political toubles than with an international connection. 8c

As we get close to having available the technology necessary to implement a broadcast, satellite channel, two interesting issues arise. First, the high degree of control required by the Satellite IMP over the satellite channel (for instance, to do accurate time keeping and to turn transmitter carrier on and off) necessitates the Satellite IMP being located in the satellite ground station. Additionally, locating the Satellite IMP in the ground station will enable flexible fan-out of low speed lines from the Satellite IMP to the land-based network. Unfortunately, the concept of locating a piece of customer equipment such as a Satellite IMP within the

satellite ground station is quite outside the satellite carriers' conventional way of doing things, although COMSAT has agreed to plead our case for Satellite IMPs within the ground station with INTELSAT. Second, the concept of multiple users sharing a common channel for both transmission and reception is quite alien to any established tariff known to satellite carriers or governmental regulatory agencies. 9

Nonetheless, we expect solutions to all such problems to be found; and, by the end of the year, we expect at least one broadcast, satellite channel to be in routine operation somewhere within the ARPA Network. And by the end of next year, I expect a significant portion of the ARPA Network traffic to be routinely flowing via broadcast, satellite channels, at a cost and in a manner which will clearly substantiate the economic and technical advantages of broadcast, satellite communications predicted here today. 10

DCW2 27-JUN-73 17:42 16867

NCCSE Talk,Satellite Packet Communications Session

(J16867) 27-JUN-73 17:42; Title: Author(s): David C. Wood/DCW2 ;
Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

MLK 14-JUN-73 18:58 16868

TRANSMITTAL TO: Frank S. Cooper

TRANSMITTAL TO: Frank S. Cooper
Haskins Laboratories
270 Crown Street
New Haven, Connecticut 06510

FROM: Marcia Keeney (NIC)
Station Agent 1

At your request, I am sending the following SUR notes: 1a

SUR #40
49
53-60
67
70
75
78 1a1

I was unable to locate #77 but will continue the search. 1b

MLK/kk 1c

16868 Distribution
Station Agent,

MLK 14-JUN-73 18:58 16868

TRANSMITTAL TO: Frank S. Cooper

(J16868) 14-JUN-73 18:58; Title: Author(s): Marcia Lynn Keeney/MLK ; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

TRANSMITTAL TO: Carlos Lucena

TRANSMITTAL TO: Carlos Lucena
UCLA - Network Measurement Center
Computer Science Department
3732 Boelter Hall
University of California at Los Angeles
Los Angeles, California 90024

FROM: Marcia Keeney (NIC)
Station Agent 1

Your name was entered today in the IDENTFILE of the Network Information Center. Enclosed is a copy of that entry. It will appear as such in the next update to the Network Directory (NIC 5150). If anything in the entry is incorrect, please notify Marcia Keeney at the NIC and she will correct it. 1a

16869 Distribution
Station Agent,

MLK 14-JUN-73 18:52 16869

TRANSMITTAL TO: Carlos Lucena

(J16869) 14-JUN-73 18:52; Title: Author(s): Marcia Lynn Keeney/MLK ; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

MLK 14-JUN-73 18:50 16870

TRANSMITTAL TO: Ing. G. Puccioni

TRANSMITTAL TO: Ing. G. Puccioni
Ital Cable
Direttori Central
Via Calabri 46
Rome
ITALY

FROM: Marcia Keeney (NIC)
Station Agent 1

Your name was entered today in the IDENTFILE of the Network Information Center. Enclosed is a copy of that entry. It will appear as such in the next update to the Network Directory (NIC 5150). If anything in the entry is incorrect, please notify Marcia Keeney at the NIC and she will correct it. 1a

16870 Distribution
Station Agent,

TRANSMITTAL TO: Ing. G. Puccioni

(J16870) 14-JUN-73 18:50; Title: Author(s): Marcia Lynn Keeney/MLK ; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

MLK 14-JUN-73 18:50 16871

TRANSMITTAL TO: Mauro F. Ballabeni

TRANSMITTAL TO: Mauro F. Ballabeni
Ing. C. Olivetti & Co. S.p.A.
I-10015 IVREA (To.)
Via Jervis No. 11
ITALY

FROM: Marcia Keeney (NIC)
Station Agent 1

Your name was entered today in the IDENTFILE of the Network Information Center. Enclosed is a copy of that entry. It will appear as such in the next update to the Network Directory (NIC 5150). If anything in the entry is incorrect, please notify Marcia Keeney at the NIC and she will correct it. 1a

16871 Distribution
Station Agent,

MLK 14-JUN-73 18:50 16871

TRANSMITTAL TO: Mauro F. Ballabeni

(J16871) 14-JUN-73 18:50; Title: Author(s): Marcia Lynn Keeney/MLK ; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

MLK 14-JUN-73 19:16 16872

TRANSMITTAL TO: Connie D. Rosewall

TRANSMITTAL TO: Connie D. Rosewall
Computer Systems Laboratory
Univ. of California at Santa Barbara
Santa Barbara, California 93106

FROM: Marcia Keeney (NIC)
Station Agent 1

At your request, I am sending NIC 15541. NIC 14702 must be ordered from University of Maryland, Computer Science Center, College Park, Md., as we do not distribute it. 1a

MLK/kk 1b

16872 Distribution
Station Agent,

MLK 14-JUN-73 19:16 16872

TRANSMITTAL TO: Connie D. Rosewall

(J16872) 14-JUN-73 19:16; Title: Author(s): Marcia Lynn Keeney/MLK ; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

MLK 14-JUN-73 18:57 16873

TRANSMITTAL TO: TIP and USER Liaisons

TRANSMITTAL TO: TIP and USER Liaisons

FROM: Jake Feinler [NIC)
Coordinator, Resource Notebook 1

Enclosed is the current draft copy of your site's section in the Resource Notebook. Please check it over and fill out any missing information. We hope to publish a complete up-to-date version soon and therefore request that you return additions and corrections by June 29 so that they may be included. 1a

JAKE/kk 1b

16873 Distribution
Station Agent,

MLK 14-JUN-73 18:57 16873

TRANSMITTAL TO: TIP and USER Liaisons

(J16873) 14-JUN-73 18:57; Title: Author(s): Marcia Lynn Keeney/MLK ; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

MLK 14-JUN-73 18:59 16875

TRANSMITTAL TO: Ing. G. Puccioni

TRANSMITTAL TO: Ing. G. Puccioni
Ital Cable
Direttori Central
Via Calabri 46
Rome
ITALY

FROM: Marcia Keeney (NIC)
Station Agent 1

At the request of Vint Cerf, your name has been added to the INWG mailing list. 1a

Enclosed are all back issues of INWG Notes, excluding 1, 3, 7, 8, 9, and 11, which are out of date. 1b

New members in the INWG group also receive background documents thought to be useful to the INWG members. They are as follows: 1c

NIC 7104 Current Network Protocols
NIC 9926 A Proposed Experiment with a Message Switching Protocol
NIC 10510 Function-Oriented Protocols for the ARPA Computer Network
NIC 11626 Improvements in the Design and Performance of the ARPA Network 1c1

16875 Distribution
Station Agent,

MLK 14-JUN-73 18:59 16875

TRANSMITTAL TO: Ing. G. Puccioni

(J16875) 14-JUN-73 18:59; Title: Author(s): Marcia Lynn Keeney/MLK ; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

TRANSMITTAL TO: Mauro F. Ballabeni

TRANSMITTAL TO: Mauro F. Ballabeni
Ing. C. Olivetti & Co. S.p.A.
I-10015 IVREA (To.)
Via Jervis No. 11
ITALY

FROM: Marcia Keeney (NIC)
Station Agent 1

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NIC 9926 A Proposed Experiment with a Message Switching Protocol
NIC 10510 Function-Oriented Protocols for the ARPA Computer Network
NIC 11626 Improvements in the Design and Performance of the ARPA Network 1c1

16876 Distribution
Station Agent,

MLK 14-JUN-73 19:14 16876

TRANSMITTAL TO: Mauro F. Ballabeni

(J16876) 14-JUN-73 19:14; Title: Author(s): Marcia Lynn Keeney/MLK ; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

MLK 14-JUN-73 19:00 16877

TRANSMITTAL TO: Steve D. Crocker

TRANSMITTAL TO: Steve D. Crocker
Advanced Research Projects Agency
1400 Wilson Boulevard
Arlington, Virginia 22209

FROM: Marcia Keeney (NIC)
Station Agent 1

Enclosed is a copy of a letter from Ray Ware. Let me know if you want us to send him the documents he requests. 1a

16877 Distribution
Station Agent,

TRANSMITTAL TO: Steve D. Crocker

(J16877) 14-JUN-73 19:00; Title: Author(s): Marcia Lynn Keeney/MLK ; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

TRANSMITTAL TO: Ray W. Ware, M.D.

TRANSMITTAL TO: Ray W. Ware, M.D.
Associate Chief of Staff for Research
Veterans Administration Hospital
Lexington, Kentucky 40507

FROM: Marcia Keeney (NIC)
Station Agent 1

I have forwarded your request to Steve Crocker at the Advanced Research Projects Agency. He must OK the distribution of the particular documents which you request. 1a

MLK 27-JUN-73 17:58 16878

TRANSMITTAL TO: Ray W. Ware, M.D.

(J16878) 27-JUN-73 17:58; Title: Author(s): Marcia Lynn Keeney/MLK ; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

MLK 14-JUN-73 19:18 16879

TRANSMITTAL TO: Robert H. Thayer

TRANSMITTAL TO: Robert H. Thayer
Rome Air Development Center (ISIM)
Griffiss Air Force Base
Rome, New York 13440

FROM: Marcia Keeney (NIC)
Station Agent 1

Your name was entered today in the IDENTFILE of the Network Information Center. Enclosed is a copy of that entry. It will appear as such in the next update to the Network Directory (NIC 5150). If anything in the entry is incorrect, please notify Marcia Keeney at the NIC and she will correct it. 1a

16879 Distribution
Station Agent,

MLK 14-JUN-73 19:18 16879

TRANSMITTAL TO: Robert H. Thayer

(J16879) 14-JUN-73 19:18; Title: Author(s): Marcia Lynn Keeney/MLK ; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

MLK 27-JUN-73 17:57 16880

TRANSMITTAL TO: Frank J. Tonaini

TRANSMITTAL TO: Frank J. Tonaini
Rome Air Development Center (ISIM)
Griffiss Air Force Base
Rome, New York 13440

FROM: Marcia Keeney (NIC)
Station Agent 1

Your name was entered today in the IDENTFILE of the Network Information Center. Enclosed is a copy of that entry. It will appear as such in the next update to the Network Directory (NIC 5150). If anything in the entry is incorrect, please notify Marcia Keeney at the NIC and she will correct it. 1a

MLK 27-JUN-73 17:57 16880

TRANSMITTAL TO: Frank J. Tomaini

(J16880) 27-JUN-73 17:57; Title: Author(s): Marcia Lynn Keeney/MLK ; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

Transmittal to Station Agents -- 89 NIC 16881
Jeanne North 28 JUN 73 1

1a

Enclosed: 1b

NIC 16445 *NWG/RFC #514 NETWORK MAKE-WORK;
W. Kantrowitz (LL TX-2). 1b1

NIC 16446 *NWG/RFC #515 Specifications for Datalanguage,
Version 0/9; R. Winter (CCA). 1b2

NIC 17033 *NWG/RFC #522 Traffic Statistics (May 1973);
A. McKenzie (BBN-NET). 1b3

NIC 17048 *NWG/RFC #523 SURVEY is in Operation Again; Abhay K.
Bhushan (MIT-DMCG). 1b4

1c

*sent to Liaisons 1d

MLK/kk 1e

16881 Distribution
Station Agent, Michael D. Kudlick, James E. (Jim) White,

Transmittal to Station Agents -- 89

(J16881) 26-JUN-73 17:04; Title: Author(s): Jeanne B. North/JBN ;
Distribution: /SA MDK JEW ; Sub-Collections: NIC ; Clerk: KIRK ;

MLK 27-JUN-73 17:59 16882

TRANSMITTAL TO: Paul Berman

TRANSMITTAL TO: Paul Berman
Harvard University
Aiken Computation Lab 207
Cambridge, Mass. 02138

FROM: Marcia Keeney (NIC)
Station Agent 1

At your request, I am sending NIC 11983 and NIC 13630. 1a

MLK/kk 1b

MLK 27-JUN-73 17:59 16882

TRANSMITTAL TO: Paul Berman

(J16882) 27-JUN-73 17:59; Title: Author(s): Marcia Lynn Keeney/MLK ; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

MLK 27-JUN-73 17:58 16883

TRANSMITTAL TO: Paula Kazanjian

TRANSMITTAL TO: Paula Kazanjian
Advanced Research Projects Agency
1400 Wilson Boulevard
Arlington, Virginia 22209

FROM: Marcia Keeney (NIC)
Station Agent 1

Enclosed are TIPUG Notes 1-11 excluding number 4 which I couldn't find in our files. I've written to Mike Padlipsky, the author, to send another copy. When he does, I'll forward one on to you. 1a

MLK 27-JUN-73 17:58 16883

TRANSMITTAL TO: Paula Kazanjian

(J16883) 27-JUN-73 17:58; Title: Author(s): Marcia Lynn Keeney/MLK ; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

NIC 16884 Marcia Keeney (SRI-NIC)
Tealwing Net Note 1 23 JUN 73

1

Procedures for Distributing Tealwing Net Notes

1a

The Network Information Center (NIC) provides document distribution service for the Tealwing Net Group. The NIC will reproduce documents submitted by members of the group and distribute copies to all members. 1a1

Preparation 1b

Each document should have on it a Tealwing Net Note number, a NIC number, the author's name and affiliation, the date, and a title. (See above.) These items are necessary for proper cataloging of the note. 1b1

To obtain NIC and Tealwing Net Note numbers call NIC at (415) 329-0740, or use your Enterprise number if you have one. If calling is not practical, leave room on the original so that the NIC can type in the numbers. 1b2

If you have online access and can prepare the document using NLS, put the document into a file and send a Journal message to Marcia Keeney at NIC. The file will be given a heading and printing directives as necessary, and a master made for reproduction and distribution. 1b3

Distribution 1c

Send the original, a good copy, or a Journal message about the file, to NIC: 1c1

ARPA Network Information Center
c/o Ms. Marcia Keeney
Augmentation Research Center
Stanford Research Institute
Menlo Park, California 94025 1c1a

NIC will distribute copies to all Tealwing Net Group members. 1c2

Names to be added to the distribution list should be submitted to Charles J. Shoens (SRI). 1c3

16884 Distribution

John E. Winter, Allen M. Peterson, Robert S. Leonard, C. Tucker Battle, Charles J. Shoens, Robert B. Wagner, Stanley J. Goodman, J. Neil Birch, David L. Anderson, Carroll Wayne Keilers, A. J. Deex,

Resource Accounting Group Note 1

NIC 16885 Marcia Keeney (SRI-NIC)
Resource Accounting Group Note 1 23 JUN 73 1

Procedures for Distributing Resource Accounting Group Notes 1a

The Network Information Center (NIC) provides document distribution service for the Resource Accounting Group. The NIC will reproduce documents submitted by members of the group and distribute copies to all members. 1a1

Preparation 1b

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To obtain NIC and Resource Accounting Group Note numbers call NIC at (415) 329-0740, or use your Enterprise number if you have one. If calling is not practical, leave room on the original so that the NIC can type in the numbers. 1b2

If you have online access and can prepare the document using NLS, put the document into a file and send a Journal message to Marcia Keeney at NIC. The file will be given a heading and printing directives as necessary, and a master made for reproduction and distribution. 1b3

Distribution 1c

Send the original, a good copy, or a Journal message about the file, to NIC: 1c1

ARPA Network Information Center
c/o Ms. Marcia Keeney
Augmentation Research Center
Stanford Research Institute
Menlo Park, California 94025 1c1a

NIC will distribute copies to all Resource Accounting Group members. 1c2

Names to be added to the distribution list should be submitted to Bert R. Sutherland (BBN-TENEX). 1c3

16885 Distribution

T. E. Cheatham, Steve D. Crocker, Anatol W. Holt, Thomas M. Marill, Allen Newell, M. W. Pirtle, Edward P. Schelonka, Daniel L. Slotnick, Bert R. Sutherland,

NIC 16886 Marcia Keeney (SRI-NIC)
Weather Data Base Working Group Note 1 23 JUN 73 1

Procedures for Distributing Weather Data Base Working Group Notes 1a

The Network Information Center (NIC) provides document distribution service for the Weather Data Base Working Group. The NIC will reproduce documents submitted by members of the group and distribute copies to all members. 1a1

Preparation 1b

Each document should have on it a Weather Data Base Working Group Note number, a NIC number, the author's name and affiliation, the date, and a title. (See above.) These items are necessary for proper cataloging of the note. 1b1

To obtain NIC and Weather Data Base Working Group Note numbers call NIC at (415) 329-0740, or use your Enterprise number if you have one. If calling is not practical, leave room on the original so that the NIC can type in the numbers. 1b2

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Stanford Research Institute
Menlo Park, California 94025 1c1a

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Names to be added to the distribution list should be submitted to Dale H. Stern (CCA). 1c3

16886 Distribution

Bill Aldridge, Ralph E. Huschke, Roy L. Jenne, Grady F. McKay, John S. Perry, George N. Petregal, Dale H. Stern,

MLK 27-JUN-73 18:01 16891

TRANSMITTAL TO: Robert Reininger

TRANSMITTAL TO: Robert Reininger
Systems Control, Inc.
260 Sheridan Ave.
Palo Alto, Ca. 94306

FROM: Marcia Keeney (NIC)
Station Agent 1

At your request, I am sending information on services provided by SRI-ARC to Net users (NIC 14228). This document is a section from the Network Resources Notebook (NIC 6740). 1a

MLK/kk 1b

MLK 27-JUN-73 18:01 16891

TRANSMITTAL TO: Robert Reininger

(J16891) 27-JUN-73 18:01; Title: Author(s): Marcia Lynn Keeney/MLK ; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

MLK 27-JUN-73 18:00 16892

TRANSMITTAL TO: Don D. Cowan

TRANSMITTAL TO: Don D. Cowan
University of Waterloo
Department of Computer Science
Waterloo, Ontario, CANADA

FROM: Marcia Keeney (NIC)
Station Agent 1

At your request, I am sending a copy of the MACSYMA Users Manual, NIC 11772. 1a

MLK/kk 1b

MLK 27-JUN-73 18:00 16892

TRANSMITTAL TO: Don D. Cowan

(J16892) 27-JUN-73 18:00; Title: Author(s): Marcia Lynn Keeney/MLK ; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

TRANSMITTAL TO: Francis Dickson

TRANSMITTAL TO: Francis Dickson
Collins Radio Co.
Mail Station 401-122
Dallas, Texas 75207

FROM: Marcia Keeney (NIC)
Station Agent 1

At your request, I am sending NIC 16087 (Packet Radio Temporary Note #49) The Spatial Capacity of an Aloha Channel. 1a

MLK/kk 1b

MLK 27-JUN-73 18:02 16893

TRANSMITTAL TO: Francis Dickson

(J16893) 27-JUN-73 18:02; Title: Author(s): Marcia Lynn Keeney/MLK ; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

MLK 27-JUN-73 18:01 16894

TRANSMITTAL TO: Ari A. J. Ollikainen

TRANSMITTAL TO: Ari A. J. Ollikainen
UCLA Computer Science Department
3732 Boelter Hall
Los Angeles, California 90024

FROM: Marcia Keeney (NIC)
Station Agent 1

I have received word from Steve Crocker of ARPA concerning your request to remain on the mailing list. You can retain an account at SRI-ARC and can request specific documents from the NIC; Crocker does not, however, feel that it is feasible for you to remain on our regular list except for the ARPANET news. 1a

MLK/kk 1b

MLK 27-JUN-73 18:01 16894

TRANSMITTAL TO: Ari A. J. Ollikainen

(J16894) 27-JUN-73 18:01; Title: Author(s): Marcia Lynn Keeney/MLK ; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;