

Scheduled Software Maintenance

This is a reminder that Network Software Maintenance is scheduled between the hours of 0700 and 0900 (Eastern Time) on Tuesday, 9 April 1974. Although software releases are checked out as much as possible in the BBN test cell, there are sometimes problems of scale which are not detected until after a release; hence there is a small but finite possibility that the software will be troublesome for a few hours after the scheduled release.

Sincerely,

Alex McKenzie (for the Network Control Center)

Scheduled Software Maintenance

(J30406) 4-APR-74 08:01; Title: Author(s): Alex A. McKenzie/AAM;
Distribution: /NLG RADC; Sub=Collections: NIC NLG RADC; Clerk: AAM;

istaffnotes/4 April

Don,t be late on AFSC due dates 1

There are 12 engineering slots gs-11 in NCA 2

The replies on the IG no notice inspection are due to aggie by 11 April Tom you will have to push us 3

We have been advised to start the paper work on RAY he may make it before JULY and shortly after looks like a for sure 4

We have to brief Helimier here on the 15 and 14 of May and the 5550 program or 6,3 in Washington on the 9th I belivie. 5

In that regard the steering committee has been abolished and RADC/IS is in charge of the project, 5a

The question as to what is the purpose of next weeks briefing on security was brought up,It may be a must for someone like Bill Rzepka to attend along with roger , 5a1

It was also stressed that a Col Whitcaker is really pushing for a heavy program in Software reliability and production,he works for Helimier and feels that our 6,3 program should be just that. 5b

I brought up the question of who was going to do the penetration studies for the Multics plan 6

A Barnum insist that we will provide the people but ESD must provide the direction Bill and I will have to work this one out, 6a

The radc mis was brought up .The div wants a transition meeting where the facility can insure us that every thing is working on the CMS and PMS files, 7

I brought up for instance that it was my understanding that the terminals had some han ups Capt Stinson insure me that the problem has been resolved, 7a

We will be asked by Dan Richards for sure to provide inputs to him on what we have done or could do for the spo programs as they are briefed at AFSC headquarters,It seems that the SPO dir4ector is required to have a special slide is all of his r3views,They have a schedule which will be put in the system,I think we will make To responsible to remind us which program is being briefed 8

Apparently,Roger Shell is trying to get us to sponser some work by Cheetam in OS dev.As every one know we have been drummed out of there a number of times Bill patterson has to prepare a reply which should reflect our postion not only for us but AFSC in general whatever we

istaffnotes/4 April

say, He will contact Bill Rzepka possibly for his opinion or any one else that wants to take a shot at it. After my stint i Boston i am not so sure our current postion of hands off the os is very realistic as about every pne but us makes allkinds of MODS to their OS.

9

Does anyone have a report on a system called MIDIMS by GE, Bill . Patterson has lost it and it belongs to the library.

10

istaffnotes/4 April

(J30407) 4-APR-74 10:14; Title: Author(s): John L. McNamara/JLM;
Distribution: /RADC; Sub-Collections: RADC; Clerk: JLM;
Origin: <MCNAMARA>STAFFNOTES,NLS;2, 4-APR-74 10:08 JLM ;

test of mail system

(J30409) 4-APR-74 14:42; Title: Author(s): John R. Pickens/JRP;
Distribution: /JRP; Sub-Collections: NIC; Clerk: JRP;

Table of Contents View of Sorted Home T/A Comments

I thought you might be interested in seeing these (?) The comments themselves are in files (useques,) and (impacts,). I can't believe how much time we could have saved if we'd done it right the first time.

Table of Contents View of Sorted Home T/A Comments

Impact-type questions : Table of Contents	1
(*50) Would your available leisure time tend to increase or decrease if this service were available ?	1a
(*51) Would this service encourage you to stay at home or encourage you to get away from the home?	1b
(*52) Would the relationship between your gainful employment and your recreation become more similar or dissimilar?	1c
(*53) Would you tend to spend more or less money on protecting the privacy of your household information ?	1d
(*54) Would your respect for the privacy of others tend to increase or decrease ?	1e
(*55) Could you estimate the severity of a temporary but complete breakdown in the privacy of the information in this service ?	1f
(*56) Would you tend to see more or less of your OLD friends and acquaintances if this service were in widespread use ?	1g
(*57) Would you tend to make many more new acquaintances (or much fewer) if this service were in widespread use ?	1h
(*58) Would your relationships with other people become more formal or more informal ?	1i
(*59) What would be the impact of a temporary, but complete, disruption of the basic service ?	1j
Use-Type Questions : Table of Contents	2
ENTERTAINMENT-ON-DEMAND	2a
INCREASING USE	2a1
LOW PENETRATION	2a2
QUALITY	2a3
SPORTS	2a4
uOTHER	2a5
VARIETY	2a6
INFO ON COSTS	2a7

Table of Contents View of Sorted Home T/A Comments

EDUCATION-ON-DEMAND	2b
GENERAL	2b1
LOW	2b2
HIGH	2b3
AMOUNT OF MATERIAL COVERED	2b4
ADULT-ESSENTIAL	2b5
GENERAL	2b6
GOV'T SPONSORED	2b7
OTHER SPONSORED	2b8
HOUSEHOLD INFORMATION SERVICE	2c
GENERAL	2c1
IN FAVOR	2c2
OPPOSED	2c3
>10 TIMES	2c4
SUITABILITY-GENERAL	2c5
BABYSITTING	2c6
SUITABILITY	2c7
SUBSTITUTION	2c8
DEDICATED NEWS SERVICE	2d
GENERAL	2d1
LOW USE	2d2
HIGH USE	2d3
SUBSTITUTION-NEWSPAPER	2d4
SUBSTITUTION-RADIO	2d5
SUBSTITUTION-MAGAZINES	2d6

Table of Contents View of Sorted Home T/A Comments

REMOTE BANKING	2e
GENERAL	2e1
SUBSTITUTION=0	2e2
SUBSTITUTION->20	2e3
OTHER SUBSTITUTIONS	2e4
INCREASE COST	2e5
DECREASE COST	2e6
USE OF CASH	2e7
SECURITIES	2e8
REMOTE WORK CENTER	2f
ENCOURAGE	2f1
DISCOURAGE	2f2
GENERAL	2f3
REMOTE MEDICAL DIAGNOSIS	2g
IN FAVOR	2g1
AGAINST	2g2
ROLE OF DOCTOR	2g3
HELP	2g4
HEALTH	2g5
PSYCH,	2g6
DOCTORS	2g7
(GOVT INS.)	2g8
COST	2g9
REMOTE POLITICAL PARTICIPATION	2h
REC'S., GEN'L,	2h1

Table of Contents View of Sorted Home T/A Comments

ENCOURAGE	2h2
DISCOURAGE	2h3
HOME SURVEILLANCE SYSTEMS	2i
OPPOSED	2i1
EQUIPMENT	2i2
ACCIDENT	2i3
GENERAL	2i4

Table of Contents View of Sorted Home T/A Comments

(J30410) 4-APR-74 15:13; Title: Author(s): Michael T. Bedford/MIKE;
Distribution: /LHD MIKE; Sub-Collections: NIC; Clerk: MIKE;

Chagne to Telenet INWG mailing list

Larry, Chris, Barry:

1

I am pruning INWG list a little and wondered if it is sufficient to include Barry only (or Larry or Chris), or whether you all feel the need to get the INWG stuff direct? Reply to CERF@ISI or via NIC [ident VGC]. Unless I hear otherwise, I will leave Larry and Chris off.

1a

Vint

1b

VGC 4-APR-74 18:26 30411

Chagne to Telenet INWG mailing list

(J30411) 4-APR-74 18:26; Title: Author(s): Vinton G. Cerf/VGC;
Distribution: /LGR CBN BDW; Sub-Collections: NIC; Clerk: VGC;
Origin: <SU-DSL>MSG,NLS;2, 4-APR-74 18:25 VGC ;

BNR INWG mailing list change

Larry, Chris, Barry:

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I am pruning INWG list a little and wondered if it is sufficient to include Barry only (or Larry or Chris), or whether you all feel the need to get the INWG stuff direct? Reply to CERF@ISI or via NIC [ident VGC]. Unless I hear otherwise, I will leave Larry and Chris off.

1a

Vint

1b

Ottfried and Bill:

2

Is it sufficient for Alex Curran to be on the INWG mailing list or should I keep your names on also? If I hear nothing, I will keep Alex Curran only.

2a

Vint Cerf

2a1

VGC 4-APR-74 18:31 30412

BNR INWG mailing list change

(J30412) 4-APR-74 18:31; Title: Author(s): Vinton G. Cerf/VGC;
Distribution: /OR WWC; Sub-Collections: NIC; Clerk: VGC;
Origin: <SU-DSL>MSG,NLS;2, 4-APR-74 18:25 VGC ;

Changes to INWG list (idents left out)

Marcia, retain lgr, or, wwc, cbn, wbb, until further notice and
cancel Keith Sandum (KNS). I have sent messages to lgr, et al to ask
whether i can take them off the list, Vint

1

Changes to INWG list (idents left out)

(J30413) 4-APR-74 18:33; Title: Author(s): Vinton G. Cerf/VGC;
Distribution: /MLK; Sub-Collections: NIC; Clerk: VGC;

CCL comments

To the members of CCL:

I have made a few comments of the previous discussion. They may be found in day-ccl,nls or day-ccltext.txt both under the illinois directory. Actions are desired.
John

1

DAY 4-APR-74 19:33 30414

CCL comments

(J30414) 4-APR-74 19:33; Title: Author(s): John D. Day/DAY;
Distribution: /CCL; Sub-Collections: NIC CCL; Clerk: DAY;

Request for evaluation of three UTAH people

Barry: Can you give me a capsule comparison of the academic and research capacities of Jim Clark, Ed Catmull and Fred Parke? They are being considered for Stanford Appointments and we can use some further opinion of these three candidates. Thanks, Vint [CERF@ISI]

1

VGC 4-APR-74 20:55 30415

Request for evaluation of three UTAH people

(J30415) 4-APR-74 20:55; Title: Author(s): Vinton G. Cerf/VGC;
Distribution: /BDW; Sub-Collections: NIC; Clerk: VGC;

For Subcollection and Comments Commands in Forward

I just had occasion to add a recently sent journal item to a subcollection, if I could, I can't tell you how many time I have had that wish before. Likewise when I have sent something to some one by secondary distribution I have wished to explain who sent it and why.

1

On occasion I have resubmitted a journal item, giving it a new number, in order to distribute it with an explanation or to get it into a subcollection, but that strategy seems awkward and expensive.

2

This is a plea that "forward" in "readmail" include a subcollection and a comments field.

3

DVN 5-APR-74 11:54 30416

For Sucollection and Comments Commands in Forward

(J30416) 5-APR-74 11:54; Title: Author(s): Dirk H. Van Nouhuys/DVN;
Distribution: /NEWNLS MDK JBN JEW; Sub-Collections: SRI-ARC NEWNLS;
Clerk: DVN;

funds

Barnum, Nelson & Panara had a meeting on 2 April regarding main thrust of the reply.

funds

Subject: Allocation of funds for PE63728F (samso/dyt Ltr dtd 26 mar 74)

To: SAMSO/(dyt/lt col butler) Los Angeles AFS, po box 92960
Worldway Postal Center Los Angeles, CA 90009

The effort RADC proposed for Aerospace Corp, for software error data collection and analysis is a necessary basic ingredient of our long range objective to establish an Air Force Software Error Analysis Facility. We are particularly interested in analyzing the error classification system developed by Aerospace Corp.

As Mr. Tomaini and Mr. Nelson of the Information Sciences Division discussed with SYT personnel and Dr. H. Hecht at SAMSO during the week of 18 March, a positive source of error data has been identified by RADC. This source is TRW and there is no reluctance on their part to supply this data since the recipient has been identified as Aerospace Corp.

We are aware of your interest in modifying for JOVIAL/J-4 the automatic verification system being developed by RADC and intend to propose it as new effort during our internal program review. Since our funds are limited, we suggest you also try to find a fund source at SAMSO and keep us informed of your progress.

RADC welcomes any further discussion you may desire on the above subject; however, we are convinced that our proposed approach will indeed serve to meet Air Force requirements.

Our coordination with SAMSO on the Aerospace efforts was accomplished with your predecessor, Lt Col T. Yamamoto and the DYT contact, Maj L. Fry. We feel that our discussions with you since your arrival have been necessary to insure continuity when the 63728F funds become available.

FOR THE COMMANDER cy AFSC/(DLCE/Lt Col McGinnis
AFSC/XRF
SAMSO/(TM/Mr. Aichinger)

Subject: Allocation of funds for PE 63728F

To: RADC/IS

Your letter, 13 Feb 74, to SAMSO/TM started a planned allocation of resources for Aerospace MTS contract services for FY 75. This office has serious reservations as to the desirability of expending the limited resources of PE 63728F on an effort with the high risk and limited benefit offered by continuation of the Aerospace effort. During FY 74, this effort produced no practical

funds

results due to the complete absence of data to input to an analysis. Unless a positive source of error data can be identified by RADC, the FY 75/76 results can be expected to be the same.

4a

In SAMSO's limited evaluation, other efforts in the V and V area do offer more positive benefits. The channeling of additional funds into the procurement of tools should be discussed before positive decisions are made.

4b

Responsible personnel in SAMSO/DYT have not coordinated on the proposed 63728 actions. (Reference paragraph 2, of attached letter.) Recommend a review of this overall effort be conducted to determine the proper allocation of resources to meet the Air Force requirements.

4c

funds

(J30418) 5-APR-74 13:34; Title: Author(s): Joe P. Cavano/JPC;
Distribution: /ARB(Please review and comment on reply to SAMSO letter.
Should DO be on coordination? Copy also sent to Tomaini/Nelson for
comments.) FJI(Please forward to Dick Nelson for his comments.);
Sub-Collections: RADC; Clerk: JPC;
Origin: <CAVANO>ANYTHING.NLS;1, 5-APR-74 12:25 JPC ;

Marcia--

I would appreciate it if you would send me one copy each of NIC #14135, 21256, and 22152 (RFC's 451, 608, and 625). Thanks much.

--Mark

1

MCK 5-APR-74 14:12 30419

(J30419) 5-APR-74 14:12; Title: Author(s): Mark C. Krilanovich/MCK;
Distribution: /MLK; Sub-Collections: NIC; AccessList: MLK MCK; Clerk:
MCK;

incasting

TITLE:
 COMMENT:
 AUTHOR(S):PF
 DISTRIBUTION:
 SUBCOLLECTION:
 CLERK:PF
 GO.

1

TITLE:
 COMMENT:
 AUTHOR(S):PF
 DISTRIBUTION:
 SUBCOLLECTION:
 CLERK:PF
 GO.

2

from PF to LHD, re:incasting audio-visual.....WDEA, KSH, Charlie Harris and I saw the audio-visual from 3:00 to 4:00 on Fri., April 5. Harris mentioned that the producer's quoting of Bell that the telephones could be used for polling very easily was not attributable to him. Anderson brought out the point that he was skeptical whether we could get away with 1% sample. Harris thought maybe we could just tell the public that we can't go to 100% penetration. KSH brought out the possible negative implications and mentioned that possibly we should get Naisby to try to arrange possible field trial in conjunction with boadcasting industry. In light of this unexpected audience with 2 vp's I'll keep the projectors here another few days in case word of mouth brings us some more viewers of the presentation...Phil

3

incasting

(J30420) 5-APR-74 14:41; Title: Author(s): Phil Feldman/PF;
Distribution: /PF LHD; Sub=Collections: NIC; Clerk: PF;

test of newsndmsg

1 2 3 4

1

John

2

JRP 5-APR-74 16:47 30421

test of newsndmsg

(J30421) 5-APR-74 16:47; Title: Author(s): John R. Pickens/JRP;
Distribution: /RFB; Sub=Collections: NIC; Clerk: JRP;

msg to day

John, who do I call to find out about availability of an ANTS
interface (hardware and/or specs.) ? Rosy

1

AJR 6-APR-74 13:01 30422

msg to day

(J30422) 6-APR-74 13:01; Title: Author(s): Al J. Rosenfeld/AJR;
Distribution: /DAY; Sub-Collections: NIC; Clerk: AJR;

THIS IS A DEMO MESSAGE TO TRY TO SEE IF THE NETWORK MAIL DELIVERY
WILL WORK, THIS MESSAGE WAS SEND ON 05-APR-74 1517 BY GSG...OUR
SYSTEM SEEMS TO BE UP AND RUNNING TSO I HOPE IT GETS THERE AT ONE
TOME OR ANOTHER, IF WE ARE UP WHEN IT HAPPENS..WELL, GOOD LUCK...BYE

1

(J30423) 6-APR-74 15:21; Title: Author(s): Geoffrey S.
Goodfellow/GSG; Distribution: /GSG; Sub-Collections: NIC; Clerk: GSG;

Hi Jennings, I am trying something new here, from the computer center here in menlo park at sri-ai, where i am doing things now. I hope that you were not scard when you saw this letter, and probly had no idea that it was from me....I sent an artical earlier this week from and ACT progam that isaw that last time I was up to S.f. It tells about Hong Kong from the turis point of view, and has some spcial sections on shoping, thaat I knew that you wold be interested in seeing, also some tips about spending mony are included along with the rest...Please write as soon as you get this letter, so that I know that it got there, this is the first time that i have tried it, and hope that it will work...I was windering, did you ever get my 2 cassette tapes that I sent over to you at Christmas time? i have head no word from you about them, and was wondering if they got swpied in the mail, oh andDon and me sent some more of your stuff over by sea mail last week, hope it makes it...last week the drama club did this years melodrama, it was fantastic, of course i got front row seats, and we even invied Joe to come down and see it also, which of course he did, but we also asked FR. John to join us also, but it was suppose to be a surpize that Jow was coming, and Bering spoild it all by telling him, and he wouldn't sit with us...Also, how lucky you are tht you did not come back, now you don't have to do the history term paper, that is duw on the 23rd of April. and of course more than half the class has not even started yet...Well, i better get back to work, write soon and take care...

[Geoff]

1

(J30424) 6-APR-74 15:35; Title: Author(s): Geoffrey S.
Goodfellow/GSG; Distribution: /JKU; Sub-Collections: NIC; Clerk: GSG;

Alan -- where is the current draft of the Helpdoc report? Dave,

1

(J30425) 6-APR-74 15:44; Title: Author(s): David H. Crocker/DHC;
Distribution: /ARH; Sub=Collections: NIC; Clerk: DHC;

SUBMISSION OF MESSAGE THROUGH SNDMSG.

IS IT POSSABLE?

1

2

3

GSG 6-APR-74 15:45 30426

SUBMISSION OF MESSAGE THROUGH SNDMSG.

(J30426) 6-APR-74 15:45; Title: Author(s): Geoffrey S.
Goodfellow/GSG; Distribution: /GSG; Sub-Collections: NIC; Clerk: GSG;

Changing Byte Size and Link Number

Jon and others,

I don't exactly think the suggestion to allow changing byte size and link number is wonderful, especially given the potential races and other difficulties which Jon has documented. I also don't see any great and pressing need for the mechanism anyhow. Still... its an intreguing idea.

Regards,

Alex

Changing Byte Size and Link Number

(J30427) 8-APR-74 06:27; Title: Author(s): Alex A. McKenzie/AAM;
Distribution: /CSK VGC DCW3 SDC2 BPC JDB DHC MAP JBP AAM;
Sub-Collections: NIC; Clerk: AAM;

5 April Meeting with Comm on AKW

This was the action I had to take as a result of our 3April meeting.

5 April Meeting with Comm on AKW

I met with Keynon & Crowley on 5 April and discussed with them our problem of submitting the NLS Utility as a new start for Jan 75. Keynon has ordered 3 TIs which he expects in shortly. Crowley is in the process of setting up his organization and I gathered that Keynon has just about sold him on the value of using AKW as a tool to help him satisfy his reporting & documentation requirements in a timely manner.

I told them of the degradation in response time we were experiencing during the busy hours and that we also planned to submit a new start for the mini investigation. They said that we could use them as potential users on both 77's. I told them we would coordinate on 77's before forwarding them to operations.

We discussed training of their troops and we agreed that "now" is a good time to initiate the training. Crowley thinks it would be an excellent time because he has assigned a Major who is also familiarizing himself with all the documentation requirements for ATEC.

I discussed the meeting with Ed Kennedy and he will prepare the 77's. We did not discuss the coordination and I assume he will accomplish this after reading this document. I also strongly recommend that we start a program to train their people and cooperate with them as much as possible in their AFBITS work. I think that we can get Operations to consider AKW (&/or the AKW/ARPANET combination) to be a facility like the 635 with a couple of users. (I also understand that Operations may be getting interested in the tickler and "calender" (Stoney's idea) capability - we all know where this can lead once they start looking into other uses.)

In summary:

- a. We have two 77's to coordinate with Comm/ Keynon & Crowley,
- b. We should begin training their troops.
- c. We should cooperate with them in AFBITS when possible.
- d. If we get the utility thru this way as a new start, I think we are on our way to getting the utility to be considered as a facility similar to the 635 and therefore we will not have to do battle yearly. I also think it could lead to a RADC-Office-1,

5 April Meeting with Comm on AKW

(J30428) 8-APR-74 06:52; Title: Author(s): Roger B. Panara/RBP;
Distribution: /JLM EJK DLS JPC ELF; Sub-Collections: RADC; Clerk: RBP;
Origin: <PANARA>COMMMTG,NLS;1, 8-APR-74 06:40 RBP ;

NOTE TO ROSY

Rosy,

Good to hear from you. To find out about an ANTS interface and ANTS itself call Mike Sher at (217) 333-2979.

John

DAY 8-APR-74 08:03 30429

NOTE TO ROSY

(J30429) 8-APR-74 08:03; Title: Author(s): John D. Day/DAY;
Distribution: /AJR; Sub-Collections: NIC; Clerk: DAY;

Jon: I talked to Diana about about your copy of your thesis and she said that she was sending one to you. Intend to write letters. I am really busy at work. Documentation backlog like you woun'dn't believe. Forget-me nots. lynn

1

LYNN 8-APR-74 11:11 30430

(J30430) 8-APR-74 11:11; Title: Author(s): Lynn A. Rossiter/LYNN;
Sub-Collections: NIC; Clerk: LYNN;

HELLO YOGEN,
THE WEATHER IN CLEVELAND IS PREDICTABLY HORIBLE. BUUT II
AM ENJOYING THE VISIIT WITH MY FAMILY. THIIIS IS MAINLY A T ESDT TO
SEE IIF THE ONLIINE MAILBOX DEAL IS WORKING. SEE YOU WED OR THURS.
CARL

1

(J30431) 8-APR-74 11:40; Title: Author(s): Carl A. Sunshine/CAS;
Distribution: /; Sub-Collections: NIC; Clerk: CAS;

ONLINE MAIL TEST FROM CARL

HELLO YOOGEN,

I AM ENJOYING MY VISIT TOP CLEVELAND AND THE FAMILY
ALREIGHT. THIS IS PRIMARILY A TEST TO SEE IF OUR MAILBOXES HAVE BEEN
PUT ONLINE YET. SEE YOU WED OR THURS. CARL

1

CAS 8-APR-74 11:50 30432

ONLINE MAIL TEST FROM CARL

(J30432) 8-APR-74 11:50; Title: Author(s): Carl A. Sunshine/CAS;
Distribution: /YKD; Sub-Collections: NIC; Clerk: CAS;

CARL'S CLEVELAND TRIP

DEAR VINT,

I ARRIVED IN CLEVELAND ALRIGHT, AND AM HAVING ANICE VISIIT WITH MY FAMILY. I ALSO HAD A SHORT TALK WITH AL ROSENFELD ABOUT THE SITUATION AT CASE-10 WHICH WAS INTERESTING. THE ONLY PROBLEMS SO FAR IS THAT MY GRANDMOTGHER, WHO HAS BEEN ILL HERE IN CLEVELAND FOR A LONG TIME, DIED SUNDAY. SO I WILL BE GOING TO NEW YOORKFOR THE FUNERAL TUESDAY. AS I SAID ,SHE WAS ILL AND MY FOLKS ARE TAKING THINGS PRETTY WELL. I STILL HPE TO RETURN WEDNESDAY, BUT MAY NOT MAKE IT IN TIME FOR THE SEMINAR. MORE THEN. CARL

1

CAS 8-APR-74 12:01 30433

CARL'S CLEVELAND TRIP

(J30433) 8-APR-74 12:01; Title: Author(s): Carl A. Sunshine/CAS;
Distribution: /VGC; Sub-Collections: NIC; Clerk: CAS;

alex:

the suggestion about change byte size and change link number were made mostly in fun, so dont worry about my trying to get them into any protocol spec.

1

(J30434) 8-APR-74 13:28; Title: Author(s): Jonathan B. Postel/JBP;
Distribution: /AAM; Sub-Collections: NIC; Clerk: JBP;

Outline for a Form 77 if you need one.

FORM 77	1
SAMPLE	1a
CODE NR(DD1630)	1a1
OBJECTIVE	1a2
FOLLOW-ON FUNDING NEXT FY FY FY TPO NR	1a3
APPROVAL	1a4
SIGN IS ISI ENGR TYPED NAME IS ISI ENGR & TEL NR	1a5
COORD REG YN DONE YN DOD ARPA NSA USER OTHER	1a6
RESOURCES REQUIRED YN AVAIL YN GFP GLP FACILITIES OTHER	1a7
RC/CC	1a8
FREQ REG YN COORD/W TSTS YN	1a9
D&F REG YN APP	1a10
LAB DIR IDENT NR	1a11
TERM OF CONTRACT MOS	1a12
RADC FORM 77 DATE YEAR DAY	1a13
UNSOLICITED PROP	1a14
SOLE SOURCE COMPANY	1a15
CONTRACT NR	1a16
JOB ORDER NR	1a17
ACCESSION NR	1a18
WORK DATE YEAR DAY	1a19
TYPE CONTRACT NEW CONT OPEN BID NEW CONT SOLE SOURCE CONT CHGS MOD EXT ADD FUNDS ONLY OVERRUN SPARE PARTS	1a20
BUYING AGENCY LOCAL PM TRAVEL SUPLIES/EQUIP TDR'S BASE BUY OA OUT PD OUT	1a21
TITLE	1a22

Outline for a Form 77 if you need one.

FY	1a23
BPAC	1a24
PEC	1a25
FUND USER	1a26
LEAD DIV	1a27
PROJ	1a28
TASK	1a29
LINE NO	1a30
SOURCE	1a31
FUNDS	1a32
PR NO	1a33
CHG	1a34

Outline for a Form 77 if you need one.

(J30436) 8-APR-74 15:15; Title: Author(s): Edmund J. Kennedy/EJK;
Distribution: /DLS RBP JPC ELF RJC AAC; Sub-Collections: RADC; Clerk:
EJK;

Recommendations of the ANTS Advisory Committee

Tom Boynton
 Jerry Burchfiel
 Dave Crocker
 Ken Pogran

25 January 1974

1

Recommendations of the ANTS Advisory Committee

2

This report is the result of a three-day meeting between the authors (the ANTS Advisory Committee, commissioned by Steve Crocker of ARPA-IPT) and the Network Terminal Systems (NTS) ANTS development group at the University of Illinois,

3

It should be noted that all participants felt that the meeting was exceptionally productive, especially when considered in light of the original sense of pessimism -- due to a history of poor communication -- with which we all entered the meeting.

4

The focus of the report is upon ANTS development, as related to its general usefulness to the ARPA community. We do not express any opinion concerning NTS general research into such areas as networking, distributed computation, or operating systems.

5

We believe that ANTS is an excellent general purpose Network access device and that it offers a good base upon which to build specialized network access facilities.

6

Ideally, we would like ANTS to become a highly developed and extremely reliable system with full exploitation of its potential. We believe that the community of potential ANTS users, outside of ARPA, should share in the costs of ANTS development. We strongly recommend, however, that ARPA at least provide sufficient support to the ANTS project to insure that the Network access needs of the ARPA community are met.

7

As this implies, we feel that ARPA's investment to date, in ANTS, will be justified when the initial Mark II ANTS is delivered. The Committee was favorably impressed with the ANTS system design.

7a

It is recommended that a second ANTS Users Meeting take place two months after UCLA-NMC accepts delivery of it's Mark II Telnet ANTS system, with the acceptance criterion to be a maximum of two software crashes per 24 hour period.

7a1

The development of the PEESPOL language is felt to have contributed greatly to the cleanliness and extensibility of the system.

7b

The minimally complete ANTS project effort, that we strongly advise be supported, is detailed below. We would like to see the additional support that will make the system considerably more useful to the ARPA community.

8

Some sites acquiring ANTS will have requirements beyond the basic ANTS system. Sites should individually contract for PDP-11 hardware, any ANTS system software extensions -- such as device drivers not part of the standard system -- and, after fiscal 1974, actual ANTS system distribution/acquistion.

8a

We suggest that it be made very easy for sites to access UCSD, so that, as an alternative to contracting with Illinois, they can create their own ANTS modules. Modules developed by individual sites should be maintained in a library at UCSD.

8b

We recommend that ANTS development activities, for the rest of fiscal 1974, be ranked in priority as follows:

9

Terminal Handler (Ascii), Ersatz Machine Protocol, NCP, Telnet, ICP, FTP (User & Server), NETRJE, cross-net Debugger, Device drivers for RF11, DH11, RK11, Gould 5000, LP11, DL11, DC11, DJ11, TM11, Gould 4800, CD11, and a limited TC11, Extended Telnet, Documentation, 2741 handler, Fancy terminal support, Command completion, Extension to PEESPOL (separate module compilation, taking advantage of processor model, and padding branches), Extended FTP, and an Imlac device driver.

9a

PDP-11 code for the cross-network debugger is currently available from BBN. Documents created and/or completed should cover the ANTS User Interface, an overview of the ANTS system, an ANTS Programmer's Guide -- to include a list of system primitives -- an ANTS Operator's Manual, an ANTS Installation Manual, a "How to get started at UCSD" Cookbook, a PEESPOL reference manual -- to include a complete index and an alphabetized BNF listing -- and continued production of the ANTS User Group Newsletter.

9b

In addition, we strongly recommend a two-year follow-on contract at a level of 6 1/2 to 8 3/4 total person years. However, we feel that a total support level up to 17 1/2 person years would be justified. Approximately two-thirds of the recommended ARPA contract effort should occur during fiscal 1975.

10

Since the recent Advisory Committee meeting with the ANTS group proved to be quite valuable, we recommend future meetings, semiannually.

10a

Supported activities should include: 11

	total person Yrs. -----	12
--	----------------------------------	----

- | | | |
|----------|--|-----|
| 1, 2 | Documentation and user support of ANTS group activities. | 12a |
| 2, 1 1/2 | Changes and future developments to Network protocols, including Host-Host, ICP, Telnet (user), FTP (user & server), RJE (user), NGP, and others to be specified by the Advisory Committee. | 12b |
| 3, 1 | ANTS reliability enhancements. (A maximum rate of one software crash per three weeks is desired.) Development of diagnostics tools should be part of this effort. | 12c |
| 4, 1/2 | Improvements to the UCSD PEESPOL compiler, in order to improve ANTS code efficiency. The range of work we would like to see includes creating the ability to compile modules separately (probably available by fiscal 1975), modifying the compiler to generate clean PAL code, as well as to generate Network standard (yet to be defined) object code file, and the writing of a PEESPOL-to BCPL conversion program. | 12d |
| 5, 1/2 | Reporting to a standard data-base, ANTS utilization and performance metering of such things as bandwidth limits by line and by entire system, connect hours, and ports used. Expertise available from other Network projects (such as the Tenex and Multics groups) should be exploited. | 12e |
| 6, 1/2 | ANTS group involvement in Network-wide PDP-11 developments, such as specification of a standard object-file format and standard cross-network debugger. | 12f |
| 7, 1/2 | Researching and utilizing Network system support facilities (e.g., develop, with TIP group, conventions for reloading and reporting; use of Network Control Center). | 12g |

And hopefully will support: 13

- | | | |
|--------|--|-----|
| 1, 1/2 | Performance enhancements, as dictated by activities in items 5, 6 and 7 above. | 13a |
| 2, 1/4 | Involvement in any network activities in accounting and authorization. | 13b |
| 3, 1/2 | Enhancements to user-level terminal support (e.g., automatic paging and simulated form-feeds). | 13c |

4. 1/4 Improvements to the PDP-11 Imp interface and transfer of fabrication and maintenance to DEC (though it would be convenient for the ANTS group to have supply of all three varieties of interfaces on hand, 13d
5. 1 Device drivers for DEC RP03, XY11, Versatec, PLATO and others to be specified by the Advisory Committee 13e

We believe it is not immediately critical that ARPA centrally support: 14

1. An ANTS directory file system. 14a
2. General PEESPOL language developments, except as directly useful for ANTS performance improvements. 14b
3. Host service functions (RJE, Mail, Telnet servers). 14c
4. Front-end development. 14d

The Committee would like to see a general increase in, or creation of, Network-wide activity in the following: 15

1. A PDP-11 Interest Group. Examples of its concerns would be standardized network loaders, Object-file format and Cross-compilers, as well as organization of a software library. 15a
2. Expansion of the role of the Network Control Center, to include its monitoring of ANIS, Tenex and other service sites. 15b
3. Network System Reliability Interest Group (invitation to Telnet and PCI should be considered). 15c
4. A Network User's Introduction (the New User's handbook recommended by USING). 15d

Recommendations of the ANTS Advisory Committee

(J30437) 8-APR-74 19:53; Title: Author(s): Thomas L. Boynton, Jerry D. Burchfiel, David H. Crocker, Kenneth T. Pogran/TLB2 JDB DHC KTP;
Sub-Collections: NIC; Clerk: DHC;

CCN NETED - AN INVITATION

Greeting, fellow NETEDers-- 1

CCN'S NETED is (hopefully) debugged, and implementing the current 2
spec in full, I would like to encourage one and all to log on and 3
let me know the results. The logon procedure is as follows: 4

... 5

you: (connect to UCLA=CCN) 6

US: ENTER SERVICE OR 'HELP' 7

you: tso 8

US: ENTER LOGON 9

you: logon arp/arpa 10

US: READY 11

you: neted 12

US: ENTER FILE NAME: 13

you: (It should be familiar from here on...) 14

... 15

A help listing may be obtained by entering HELP after the monitor 16
prompts READY. Once in NETED, H =commandname= will provide help on 17
request syntax. 18

Please let me know if you have any problems, suggestions, etc. 19

C h r i s T h o m a s a t C C N 19a

CST2 8-APR-74 20:52 30438

CCN NETED - AN INVITATION

(J30438) 8-APR-74 20:52; Title: Author(s): Christopher S.
Thomas/CST2; Distribution: /NETED; Sub-Collections: NIC NETED; Clerk:
CST2;

Extra Initial files in <USING>

Please delete your initial files from the using directory at office-1. We are very low on disk space, and have exceeded allocation more than once. Unless you can present me a very good reason for their remaining around, I will wipe out any I find still there by next Monday, April 15. Nancy

1

Extra Initial files in <USING>

(J30439) 9-APR-74 08:56; Title: Author(s): Nancy J. Neigus/NJN;
Distribution: /CAG JI LCR JAKE MEJ; Sub-Collections: NIC; Clerk: NJN;

INFORMAN Report draft

INFORMAN group--

We have got a draft ready for you to read and improve (hopefully).
the NLS version is (using, info-draft, 1: w) and the text version is
<USING>INFO-DRAFT.TXT;1. PLEASE COMMENT. This is your report too,

1

INFORMAN Report draft

(J30440) 9-APR-74 09:07; Title: Author(s): Nancy J. Neigus, David
H. Crocker/NJN DHC; Distribution: /INFORMAN; Sub-Collections: NIC
INFORMAN; Clerk: NJN;

Problems and Progress with JOVIAL Manual

I printed (carrier,contest,) via a normal output processor file. The file is online at Office-1 as <vannouhuys>jovcom,print;1.

1

There do seem to be some problems. One is page number™ which seems to restart at random numbers and occasions...although it is really hard for an outsider to tell what's right and what's wrong. Something seems to have gone wrong in the page 29 under section 2.1.10. On the page 29 under section 2.4.1 a Pxp directive is printing. On the last page 22 a Grab directive is printing.

2

I have sent a copy to Dean and will send a copy to Duane today.

3

DVN 9-APR-74 11:15 30441

Problems and Progress with JOVIAL Manual

(J30441) 9-APR-74 11:15; Title: Author(s): Dirk H. Van Nouhuys/DVN;
Distribution: /DLS NDM; Sub-Collections: DPCS; Clerk: DVN;

Following precedent, the "CONUNION" initial report will
be a little late. Three drafts do exist, though, so it's
only a matter of my trying to see if I can keep the weak
promise I made to attempt some sort of "collation" on them
which is the blockage. Am guessing two days to two weeks,
with the likelihood being somewhere in the middle.

apologies and cheers, map

1
2
3
4
5
6
6a

(J30442) 9-APR-74 11:53; Title: Author(s): James E. (Jim) white/JEW;
Distribution: /JEW; Sub-Collections: SRI-ARC; Clerk: JEW;

How to Create Distribution Lists for Sndmsg, Training Memo 3

For experiences NLS Users (Answer to Mike Bedford's request)

How to Create Distribution Lists for Sndmsg, Training Memo 3

In order to create distributions for sndmsg, you must first create a file. This file will contain nothing but the names of the people you wish to be in a particular distribution. 2) Then you insert one statement in the file and in it put the names of the receivers just as you would in sndmsg (lastname,lastname, etc.). 3) Check to see if the statement is longer than one line. If it is find the lastname before the end of the line and insert a literal carriage return after the comma. This way of noting each line with a CR is necessary when a string of names is more than one line long. 4) Update the file and then position the pointer so it is at the beginning of statement 1. 5) With your marker at the beginning of the statement and statement numbers turned off (with viewspecs), do an Output Sequential (no forced upper) to Filename.sav CR. 6) To use the distribution list file, merely type a control B in sndmsg when it asks you for USERS: and enter the filename.sav <esc> CR. This may take more than one try, but should work in a way similar to using control b to submit a TXT file as the Message.

1

How to Create Distribution Lists for Sndmsg, Training Memo 3

(J30443) 9-APR-74 16:27; Title: Author(s): James H. Bair/JHB;
Distribution: /KWAC BELL-CANADA CKM(May be good for your ARPA people);
Sub-Collections: SRI-ARC KWAC BELL-CANADA; Clerk: FEED;

NETED SUGGESTION: BEFORE IT'S TOO LATE

----- 1
THE IDEA OF NETED SOUNDS GOOD, BUT I'M ENOUGH OF A PESSIMIST 2
TO PREDICT THAT AFTER A SHORT WHILE THERE WILL BE AS MANY 3
DIFFERENT VERSIONS AS THERE ARE IMPLEMENTORS. THEREFORE, I 4
WOULD SUGGEST THAT SOME CHARACTER (EG., "X") BE RESERVED AS 5
A PREFIX CHARACTER FOR ANY AND ALL SITE DEPENDENT COMMANDS, 6
THAT ONE RULE WOULD LET ME, AS A NET USER, KNOW WHAT TO 7
AVOID, AND AS A HACKER, KNOW HOW TO ADD GOODIES WITHOUT 8
INCURRING THE WRATH OF MAP ET AL. 9

----- 10

CME 9-APR-74 20:21 30444

NETED SUGGESTION: BEFORE IT'S TOO LATE

(J30444) 9-APR-74 20:21; TITLE: AUTHOR(S): CARL M. ELLISON/CME;
DISTRIBUTION: /NETED; SUB-COLLECTIONS: NIC NETED; CLERK: CME;

DLS 10-APR-74 09:19 30446
BRIEFING SYNOPSIS

Bobbie,..Print branch .0 to see the directives used. See me
any questions. We might want to set up similar directives for
other goodies going to the Commander. Come see me and I'll
explain them to you.

As of: 11 APR 74

Prepared by: RADG

A Tool for Data Base Management System Implementation

BRIEFER

William E. Rzepka, GS-12, X7011, RADC/ISIM

LENGTH OF BRIEFING

Twenty minutes.

PURPOSE OF BRIEFING

To familiarize the Commander with the ideas contained in the technical paper generated by ISIM.

BACKGROUND

The technical paper has been accepted for presentation at the NATO Defense Research Group, Seminar on the Design and Evaluation of Information Systems to be held in Athens, Greece on 23-26 April 1974.

SUMMARY OF BRIEFING

A software Tool for the implementation of data base management systems is described. The need for such a development stems from current operating system technology which, in general, provides data base implementers with only basic operations whose appeal is quite universal and whose refinement for a specific problem solution is usually quite demanding. The objectives of the Tool are to reduce the costs and time involved in the implementation of data base management systems and to demonstrate the feasibility of incorporating this concept into the design specification of future operating systems.

RECOMMENDED ACTION

Not applicable.

As of: 11 APR 74

Prepared by: RADC

DLS 10-APR-74 09:19 30446
BRIEFING SYNOPSIS

(J30446) 10-APR-74 09:19; Title: Author(s): Duane L. Stone/DLS;
Distribution: /RJC WER; Sub-Collections: RADC; Clerk: DLS;
Origin: <STONE>BRIEF,NLS;3, 4-APR-74 06:09 DLS ;

AS of: 11 APR 74

Prepared by: RADC

DLS 10-APR-74 09:22 30447
BRIEFING SYNOPSIS

Bobbie,,second use of directives for formating purposes,,see

As of: 11 APR 74

Prepared by: RAD

Generation of an Information System

BRIEFER

Joseph P. Cavano, GS-09, X3857, RADC/ISIM

LENGTH OF BRIEFING

Twenty minutes.

PURPOSE OF BRIEFING

To familiarize the Commander with the ideas contained in the technical paper generated by ISIM.

BACKGROUND

The technical paper has been accepted for presentation at the NATO Defense Research Group, Seminar on the Design and Evaluation of Information Systems to be held in Athens, Greece on 23-26 April 1974.

SUMMARY OF BRIEFING

As organizations and the problems that face them have grown ever larger and more complex, there has been an increasing need for new tools that would present a unified view of the organization and its problems. A computerized information system does this to help management make decisions under uncertainty by providing integrated information and incorporating techniques of management science.

This paper examines the rationale behind the need for an on-line, integrated information system and the services it should provide. It formulates a comprehensive definition of the components and the functions of such a system in terms of meeting these needs and services.

RECOMMENDED ACTION

Not applicable.

As of: 11 APR 74

Prepared by: RADC

DLS 10-APR-74 09:22 30447
BRIEFING SYNOPSIS

(J30447) 10-APR-74 09:22; Title: Author(s): Duane L. Stone/DLS;
Distribution: /RJC JPC; Sub-Collections: RADC; Clerk: DLS;
Origin: <STONE>CAVBRIEF,NLS;1, 4-APR-74 06:10 DLS ;

As of: 11 APR 74

Prepared by: RADC

this is test message no. 2

1

(J30448) 10-APR-74 14:08; Title: Author(s): Virginia L. Kallal/VLK;
Distribution: /VLK; Sub-Collections: NIC; Clerk: VLK;

This is a resend of a March 26 to MEH (JJOURNAL, 30299,1)

We would like your reaction to this proposal.

1

MIKE 10-APR-74 14:43 30449

This is a resend of a March 26 to MEH (JJOURNAL, 30299,1)

(J30449) 10-APR-74 14:43; Title: Author(s): Michael T.
Bedford/MIKE; Distribution: /MEH FEED JCN; Sub-Collections: NIC; Clerk:
MIKE;

Tickler for Week of 15 April 1974

oMain Concern for next week is ISI Confessions!

Tickler for Week of 15 April 1974

(am3) 15 April - Monday	1
Col Thayer - Leave	1a
0830 hrs, Branch Chief's Meeting	1b
PMP requested in Form 56 must be forwarded to DO for coordination with 3 cys of AF 725 and RADC Form 7 for repro & distribution	1c
Due Date - ISIM/LaForge/Liuzzi - Review of System Development Notifications (SDNs - 427M)	1d
(at3) 16 April - Tuesday	2
Col Thayer - Leave	2a
Collect topic write-ups today by noon for confessions,	2b
(aw3) 17 April - Wednesday	3
Col Thayer - Leave	3a
ISI Confessions 0830 hrs,	3b
R & T Selection of the Month is due in ISI. (KJOURNAL,19531,1:w)	3c
Due Date - ISIM/McNamara & ISIS/S. DiNitto - IR&D (GE)	3d
(ath3) 18 April - Thursday	4
Col Thayer - Leave	4a
0830 hrs, Branch Chief's Meeting	4b
Laboratory Activity Reports due today: Bucciero must have them by 1000, ISM must have them by 1100, and DOT must have them by 1600,	4c
(af3) 19 April - Friday	5
Col Thayer - Leave	5a
Bobbie; Travel figures due by noon.	5b

Tickler for Week of 15 April 1974

(J30450) 11-APR-74 07:25; Title: Author(s): Roberta J. Carrier/RJC;
Distribution: /RADC; Sub-Collections: NIC RADC; Clerk: RJC;

Secondary distribution

- - - -

1

2

Mike--

3

How do little (non-wheel) people do secondary distribution of journal items they receive. I looked all through my NLS manuals and tried online querying, but I couldn't find any information. Maybe you could give me a pointer. Are there any complications in this process (like does it work at all) if the journal item originates at ARC and I want to distribute it at OFFICE-1?

4

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--Nancy

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Secondary distribution

(J30451) 11-APR-74 08:35; Title: Author(s): Nancy J. Neigus/NJN;
Distribution: /MDK; Sub-Collections: NIC; Clerk: NJN;

Comments on INFORMAN report

Rather than force some fairly lengthy comments on the INFORMAN draft 1
on all of you without warning, I'll just mention that some of you 2
might be interested in <MIT=MULTICS>MAPINFO,RUNOUT (on OFFICE=1, 3
suitable for TYPEing or FTPing). What's there is actually the draft 4
I submitted to the committee long about half-past February. Although 5
many of the ideas in it seem to have found their way into the report 6
(or to have been arrived at independently by the reporters), I feel 7
the major point it made has been underplayed almost to the point of 8
invisibility in the report as it now stands. As I am still quite 9
fond of that main point, though, I'd like to submit it to the 10
collective wisdom of USING. The reason for not simply abstracting it 11
out is that the draft as a whole was meant to be about it, and 12
contains
the reasoning which supports it. By the way, not to be mysterious 13
about "it": the point I'm concerned with is the "certification 14
board" mentioned in passing at the end of the report. (In case 15
anybody's curious, the "Section 2" refers to the original working 16
model Nancy suggested of having volunteers from the committee each do 17
a draft on one of several sections/topics she'd come up with; don't 18
be too frightened, though, I only came up with 3+ single-spaced 19
pages.) I'd like to see a consensus emerge from the Group around one 20
of three poles: 1) the Network Editorial Board is a good idea and 21
should be incorporated much more strongly into the report; 2) the 22
Board is such a good idea that it should be treated fully in an 23
appendix to the report (based on my draft, iff you like); or 3) it's 24

Comments on INFORMAN report

not a good idea, and I/we should forget it. The third one 25
wouldn't hurt my feelings irreparably, but as I said, I do like the 26
idea enough myself that I'd like to see what the whole Group thinks, 27
cheers, map 27a
p.s. the CONUNION committee report is in final proofreading, and 28
should be ready any day now. 29

Comments on INFORMAN report

(J30452) 11-APR-74 10:00; Title: Author(s): Michael A.
Padlipsky/MAP; Distribution: /USING; Sub-Collections: NIC USING; Clerk:
MAP;

Letter to Mellen

To KSH, From PF.....The following is a draft letter on incasting from KSH to GHM. Depending on the extent of changes desired, you may find it more convenient either for me to work on a marked up version of the hard copy or for Mary to directly edit the draft on the computer. (April 8, 1974)

G. H. Mellen, General Manager

(Government and Computer Communications)

BNR in SER 131 has described a domestic polling network that uses existing subscriber loops. The telephones can be in an on or off hook position and the network is not adversely affected by the introduction of pulses emitted to a central counter. The audio visual describing this incasting process has been seen by Don Chisholm, Bill Anderson, Charlie Harris and your Steve Naisby and Noe Love.

Though many of the ultimate uses will only become apparent in field trial stages, we can identify two basic types of applications at the present. First, incasting can be used to infer reactions, feelings, and general responses from a viewing audience. Second, incasting can be used to stimulate the sense of participation of a viewing audience. Two examples of audience participative programs are: Quiz (home versus studio panel); and, Entertainment (results interpreted as applause). Two specific examples which could conceivably be popular are selection of the best player in a hockey or football game and selection of winners of awards that are typified by the annual Oscar presentations.

From what we have determined, there is an interesting potential for possible new types of service offerings but because of the commitment that would have to be made, much more groundwork remains to be done. We are currently funding more research at BNR to look into behavioural and technical considerations with a view to having sufficient information on which to base a field trial prospectus within a year. In addition, however, we agree with your people that it would be valuable to sound out people in the broadcast industry to see whether they think organizations would be willing to pay for one minute incast para-commercials and indeed, whole programs that are based on audience feedback. These people could also provide other important feedback as to potential required service features for incasting-type offerings.

Of course, it should be pointed out that the possibility of an offering is still tentative. In addition, it would take about one year to arrive at an initial trial, and several years at the least for widespread availability. We do think, however, that such

Letter to Mellen

discussions would help us since there are a few basic questions which still must be answered. As presently conceived, inferencing capability is possible with a small random distribution of reply keys, however it is conceivable that there might be public and governmental pressure to expand to blanket coverage once the product was on the market. Though preliminary cash flows on both configurations have been worked out, we are presently funding a more detailed estimation. In addition, more technical development work is underway at the BNR labs to determine the technical feasibility of switching from one configuration to the other.

8

Since this is one of the first cases of "wired city" services that could be offered by Bell, we would ideally like to examine the interrelationships of automatic meter reading, smoke and fire detection, USP, incasting, and other associated services to see whether common technology and hence some costs could be spread out over two or more potential offerings; however, if CATV interests might pre-empt our position, we may want to get in rather quickly. It seems to me that joint discussions with people in the broadcast industry with a specific offer to go to field trial within one year would elicit some valuable information. I would appreciate any inputs from your staff and, if you are able to see the audio visual, I would be interested in your preliminary reactions to the service concept.

9

Letter to Mellen

(J30453) 11-APR-74 11:42; Title: Author(s): Phil Feldman/PF;
Distribution: /KSH PF; Sub-Collections: NIC; Clerk: PF;

Your message 30319

- - - -

Alex,

That message was dated 28-Mar-74 07:10

about Net Work to be done 2-APR-74 07:00-EDT

It was postmarked 8-APR-74

and arrived today.

Perhaps it would be better if you sent these messages

a week or two earlier, assuming you want to keep sending them.

Carl

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CME 11-APR-74 12:35 30454

Your message 30319

(J30454) 11-APR-74 12:35; Title: Author(s): Carl M. Ellison/CME;
Distribution: /AAM; Sub-Collections: NIC; Clerk: CME;