JDH 18-JAN-74 11:44 30000

Surprise

Just thought I'd try this out. 1

30000 Distribution
James C. Norton, Ferg R. Ferguson, A. Jim Blum,

JDH 18-JAN-74 11:44 30000

Surprise

(J30000) 18-JAN-74 11:44; Title: Author(s): J. D. Hopper/JDH;
Distribution: /JCN WRF JIMH; Sub-Collections: SRI-ARC; Clerk: JDH;

DLS 22-JAN-74 17:04 30001

PROPOSED TRAVEL REQUEST

You may fill out this form by printing out a hard copy and filling it out by hand and giving it to any of the secretaries, or by making a new file and copying the form into it and filling it out on-line.

PROPOSED TRAVEL REQUEST

PROPOSED TRAVEL REQUEST...Fill out this form by inserting text at the end of each statement containing a :. This can be done by first positioning the command marker at the first statement to be filled out. Do this by typing <SP>.name<CR>, where <SP> means the space key and <CR> means the carriage return key. 1

Then type it> <CR> Which means insert text at the end of the statement. 1a

Then type <LF>...hit the line feed key...which means print the next statement, and repeat the step above. 1b

Cycle through the above 2 steps until the form is completely filled out. Then update the file by saying u<CR> Link to Bobbie or send her a message using the sndmsg subsystem at TENEX level and tell her you have completed a Proposed Travel Request form and give her the file name you have assigned it. She will delete it from your directory, or notify you when its OK to delete it. 1c

(Serial) number: 2

(Name)(s) of Traveler(s): 2a

(Symbol): 2b

(Date) of Departure: 2c

(Number) of days: 2d

(Clearance): 2e

(Destination): 2f

(Purpose) of Trip: 2g

(Person)(s) Contacted: 2h

(Mode) of Travel: 2i

Govt: 2i1

Comm: 2i2

Priv: 2i3

(Project) Number: 2j

(Directed) by or non-directed: 2k

PROPOSED TRAVEL REQUEST

(Cost) estimated	2l
(Air) fare:	2l1
(Car) rental:	2l2
(Per) diem:	2l3
(Auto) Personal:	2l4
(Total):	2l5
(Advance):	2l6
(Time) and Date of Meeting:	2m

PROPOSED TRAVEL REQUEST

(J30001) 22-JAN-74 17:04; Title: Author(s): Duane L. Stone/DLS;
Sub-Collections: RADC; Clerk: DLS;

DLS 23-JAN-74 09:52 30002

Submitting Documents to the Journal

I am trying this on office-1, before it is really released. Will be interesting to see what it does with this file.

Submitting Documents to the Journal

Ref your message below 1

You are essentially right in your interpretation of what happens when you submit something other than a message to the Journal. Try typing Execute Journal Submit ? This will give you all the options which are available at this point in the syntax. For a whole document you type File....not document. One of the Journal subcommands is Distribution, where you type in the idents of individuals and/or groups you wish to send the file to. In my case I sent it to my bosses here at work, Jim Bair (I think), and you. Since the Journal program which makes the delivery uses a lot of computer time, the delivery will not actually be made until the system load is low..usually overnight. 1a

Delivery is in the form of a reference, as you saw, rather than the entire document. Having only one "frozen" copy of the document with references placed in all addressees' initials file obviously saves a lot on file space. The reference is then to do with as you wish, delete it, move it, reformat it, whatever. To see the full text of the document move the command marker to the statement containing the link and type <SP>↑<CR>...that's the space, ↑, carriage return keys. This is the same thing as typing Load File <filename><CR>, only easier. This will take you to branch 1 of the journal file. You can then do any of the print commands. If you are interested in seeing who else received the file, move to statement 0 and print it out. Some where in all the garbbage, you will find idents of the other receipients. 1b

DUANE: 2

SINCE I HAVE BEEN LOGGING INTO SRI FAIRLY FREQUENTLY SINCE OUR TRIP, MESSAGES SENT THERE ARE FINE. I HAVE BEEN LUCKY - MY TRIP REPORTS HAVE ALL BEEN VERBAL - SO I REALLY DON'T HAVE ANYTHING WRITTEN TO HELP YOU RETRACE YOUR STEPS. MY IMMEDIATE BOSS IS CONVINED THE WHOLE TRIP WAS ONE BIG PARTY AND ANY SERIOUS ATTEMPTS I'VE MADE TO TELL HIM ABOUT HOW LONG AND HARD WE WORKED HAVE BEEN MET WITH A KNOWING SMILE. 2a

COULD YOU TELL ME EXACTLY WHAT YOU DID WHEN YOU SENT ME A LINK ABOUT THE TRIP REPORT? YOU WENT INTO THE JOURNAL SYSTEM AND SUBMITTED A DOCUMENT, RIGHT? DID I GET NOTIFICATION OF THE LINK INSTEAD OF THE WHOLE DOCUMENT BECAUSE YOU USED "SUBMIT DOCUMENT" INSTEAD OF "SUMITED MESSAGE"? 2a1

CONNIE 2a1a

Submitting Documents to the Journal

(J30002) 23-JAN-74 09:52; Title: Author(s): Duane L. Stone/DLS;
Distribution: /EJK CKM JHB; Sub-Collections: RADC; Clerk: DLS;
Origin: <STONE>CONNIE.NLS;2, 23-JAN-74 09:48 DLS ;

My sortkey, smaller,vannouhuys,cutprog,3)whicch has run many a time at ARC just bombed me into exec with illegal instrecutin and all kinds of shit. 1

(J30003) 23-JAN-74 20:36; Title: Author(s): Dirk H. Van Nouhuys/DVN; Distribution: /JDH; Sub-Collections: SRI-ARC; Clerk: DVN;

JDH 25-JAN-74 01:09 30005

Test message to new users

Test to New Users moved as of Friday, Jan 25 1973 1

JDH 25-JAN-74 01:09 30005

Test message to new users

(J30005) 25-JAN-74 01:08; Title: Author(s): J. D. Hopper/JDH;
Distribution: /RADC BELL-CANADA; Sub-Collections: SRI-ARC RADC
BELL-CANADA; Clerk: JDH;

RJC 25-JAN-74 07:48 30006

Tickler for Week of 28 January

Please note that confessions is this week (supposedly), Form 2s are due this week, Officer's Commander's Call is this week and a few other odds and ends are going on...

RJC 25-JAN-74 07:48 30006

Tickler for Week of 28 January

(jm5) 28 January - Monday 1

0830 hrs. Branch Chief's Meeting 1a

Due Date - ISIS/ISIM - Excess Prperty List - Completed 1b

IR Division PAR Briefing - 0830 hrs. Bldg. 240, Conference Room A - Topics include; "Project 2106" - J. Diello; "Complex Graphics Composer" - Lt. Klotz; "Plume Structure" - D. Dylis 1c

Due Date - ISIM/E. Kennedy - Evaluation of USAF ROC 17-73 - Project ADMIN (AFR 57-1) 1d

(jt5) 29 January - Tuesday 2

Collect topic write-ups for ISI Confessions by noon. 2a

(jw5) 30 January - Wednesday 3

ISI Confessions - 0830 hrs. 3a

(jth5) 31 January - Thursday 4

Laboratory Activity Reports due today: Bucciero must have them by 1000, ISM must have them by 1100, and DOT must have them by 1600. 4a

0830 hrs. Branch Chief's Meeting 4b

Officers Commander's Call - 0900 - 1000 hrs. - bldg. 106 - Auditorium 4c

Form 2's (employee time expenditures) are due today. 4d

Form 6's (projected manpower) are due today. 4e

(ff1) 1 February - Friday 5

action Item for Col Thayer - Review of ISIM Mission, its R&D Program and any expected applications of MIS technology to users. 5a

Action Item for Col Thayer - Review Use of DRIPS for Software Demonstration - The use of DRIPS should provide a window into software systems. Request a proposal to IS (in coordination with ISC and ISF) on how this can be done. 5b

Timecards due today 5c

News Brief items due into Becky Today. 5d

RJC 25-JAN-74 07:48 30006

Tickler for Week of 28 January

Bobbie: Travel figures due by noon.	5e
Bobbie: Personnel Strength Rpt. due.	5f
General Alder this month - Re: ULC (Tom)	5g
Due Date - ISIM/ISIS - HIS 6180 Update of IS Computer Facility	5h

RJC 25-JAN-74 07:48 30006

Tickler for Week of 28 January

(J30006) 25-JAN-74 07:48; Title: Author(s): Roberta J. Carrier/RJC;
Distribution: /RADC; Sub-Collections: NIC RADC; Clerk: RJC;

RJC 25-JAN-74 07:59 30007

tickler

I sent you all the tickler (the WHOLE thing) for this week as quite a few things are going to be happening...so would you please read it??? 1

tickler

(J30007) 25-JAN-74 07:59; Title: Author(s): Roberta J. Carrier/RJC;
Distribution: /RADC; Sub-Collections: NIC RADC; Clerk: RJC;

DLS 25-JAN-74 08:24 30008

Dialogue and Links for RADCMIS Proposal Effort

This represents the final act as unofficial secretary for the illfated RADCMIS proposal team. This file contains all kinds of sndmsg's Journal links, individual comments and references to finished products that occurred during the 2 month exercise. I need the file space and also would like to resign from the team, so bye-bye

Dialogue and Links for RADCMIS Proposal Effort

(product)..links to finished products that came out of this team effort. 1

DLS 19-DEC-73 05:45 20967
Executive Summary for Initial RADC-MIS Proposal
Location: (MJOURNAL, 20967, 1:w)
*****Note: Author Copy*****
1a

Comments: Who knows, maybe we can dig this up in a couple of years and shove it back into the system. 1a1

DLS 19-DEC-73 06:28 20969
The Initial RADC MIS Proposal
Location: (MJOURNAL, 20969, 1:w)
*****Note: Author Copy*****
1b

Comments: This is the way the proposal finally looked (for those of you who have not seen it). Its 50 pages, so see me for hard copy if interested. This is the one that Gabe rejected, wlthough he did not see it. I am journaling it in the hopes that we can use it later in the game...like maybe 20 years 1b1

(cavano,afsc-mis,1:w) initial draft of proposal sent to Gabe. 1c

(dialog) 2

DLS 19-DEC-73 06:22 20968
Notes from Meeting with John Nicholas--PRC
Location: (MJOURNAL, 20968, 1:w)
*****Note: Author Copy*****
2a

Comments: for the record 2a1

JPC 19-DEC-73 07:38 20971
Some Old Thoughts on IDS
Location: (MJOURNAL, 20971, 1:w)
2b

DLD2 18-DEC-73 05:29 20939

Location: (MJOURNAL, 20939, 1:w)
2c

Info on military users of IDS and comments on PRC visit..particularily the data flow analysis. 2c1

JPC 12-DEC-73 13:44 20860

Dialogue and Links for RADCMIS Proposal Effort

I MAY BE WRONG BUT...
Location: (MJOURNAL, 20860, 1:w)

2d

Comments: These are my thoughts on our current situation after the meeting with Gabe on Dec. 11 on MISes (for RADC & AFSC). 2d1

13-DEC-73 0834-PST CAVANO: comments on the stone bigpic
cc: panara, kennedy, iuorno, tomaini
Received 13-DEC-73 08:34:19 2e

1). You have concisely described the problem we are trying to solve for the Center (limited people working in inefficient ways to accomplishment R&D management). I shudder to think what Gabe's reaction would be to the sad picture you painted of RADC. Obviously, manager's don't want to hear about things like that. If we are to move anywhere in this direction, I ttthink w are going to have hard facts on hand to support the hypothesises you have arrived at (and which I agree with). No one is going to listen to us wild-eyed mad scientists until we do have some kind of prof. 2). The fact remains that the problem that Gabe is addressing is not the one you have aluded to...despte his declaration that you knows what a MIS should do for an organization and that he knows it also, the capabilities he wants do not and cannot meet the test required of them to perform the services we envision. We must finally face the light of day and say "Alright, Gabe, we are going to build a really neat databse for you under IDS for a few bucks and then you are going to have the best, damn MIS in tha Air Force." 3). As part of any proposal to do what Gabe wants, we should have a 'flyer' attached to it, requesting funds to work toward a longer ranged solution to the problem we think we see but that no one else does. Then our management must stick firm in requiring that we will not undertake the Center DMS (not MIS) unless these other funds are available for development work in other, related areas that we feel are necessary. 2e1

DLD2 16-NOV-73 05:46 20329
RADCMIS
Message: I have given some though to our proposal related to contracting for maintenance and applications programmers. We should bare in mind that we have valuable experience in writing programs within a time frame that proves exceptional by comparison to other programmers. Certainly we would be getting ourselves into the same old bag of relying on contractors to do work we may never be able to understand. In other words contracting 30 to 40K dollars to me seems a mistake. I have given suggestions in a file (daughtry,radcmis,1) that I have prepared. Please read it and consider some of the thoughts there. As I have said before, use consultants to advise programmers but PLEASE not to actually do our

programming....HOW can you debug contractor work that may be misunderstood? Also the concept of updating such a large data base may not be feasible. Case in point....we have written a program to update theree records (travel, trip, trip-info) on a field basis. It turns out that the code necessary amounts to as much as other programs updating as many as six records (depending on the number of fields per record). The idea deserves more though, as well as our accomplishments so far. daughtry 2f

JPC 6-NOV-73 10:57 20069
A Proposed Outline for the MIS Proposal
Location: (LJOURNAL, 20069, 1:w) 2g

Comments: Give this your attention and feed back to me any objections, dissatisfactions,or conradictions, Otherwiase, I'll take it to be acceptable to all by WED NOON. 2g1

(From Daughtry 19 Oct 73) I have been working on a file in bethke's directory titled appropriately RADCMIS. It concerns itself only with the MIS as it pertains to I-D-S. Please feel free to make suggestions related to this file. 2h

4-OCT-73 0707-PDT CAVANO: ejk guidance on radcmis
cc: kennedy, panara 2i

(1) although we can tap Joe Femia and even Roger Weber for discussions of FEMIS and its present role in the scheme of things, one of our own boys should present what we decide to present on Femis. (2) The Transaction Procesor (TPE) has given an on-line capability and multi-user capability to DM-1. It is a separate software package available from Honeywell and could be hooked up to IDS the same way it was hooked up to DM-1. It is NOT ,however, called WWDMS and it has NOTHING to do with WWMCCS. WWDMS = World Wide Data Management System = it is based on an evolution of Advisor and IDS and its final form is not certain yet (atleast to me). WWMCCS = World Wide Military Command & Control System = is an operating system (like TENEX or GCOS). 2i1

1 October 73 - Daughtry I-D-S proposal outline 2j

I have submitted a rough outline of a planned approach to the design of an I-D-S DMS for RADC. The outline is inserted in section labeled (proposal). I do feel that I-D-S can be a very good candidate for a RADC MIS. In that sense we should remember that it is not a system that is still in a quasi-developemental state. Major companies in the private sector have been using it extensively and consider it a viable DBMS. Consider also what

impact that the WWMCCS buy can have on further developement in such areas as I-D-S Data Query (possibly an on-line update capability in the future), also the proposed Integrated Date Network (IDN), which is similar to the ARPA-type network....Please reply to the proposed outline and the above argument. 2j1

27-SEP-73 0905-PDT KENNEDY: RADCMIS
cc: cavano, iuornc, bergstrom, kennedy, panara, lawrence 2k

for: Luizzi La Forge Anyone else interested. Among other things - with respoect to a RADCMis proposal FJT would like to get a list of potential contractors. The possibilities should be structured in terms of familiarity with the ARPAnet, IDS/COBOL,AKW and GCOS . I understand from fjt that any potential contractor should know all or at least most of those areas fairly well and inaddition, should expect that much of the work done under the contract will be accomplished at RADC. Frank suggested a get together of Luizzi, bergstrom and cavvano. Comment ?? 2k1

27-SEP-73 0602-PDT CAVANO: What I almost forgot
cc: kennedy, panara 2l

I gave Bob Muhlhauser a copy of my MIS study and he will be back shortly to discuss MIS's with us. Naturally, this will be slanted toward DM-1 utilization but remember..for a final system, DM-1 can supply a lot more for us than IDS can. Anyway, Bob is sure to come up with some helpful suggestions (at government expense, of course). 2l1

27-SEP-73 0558-PDT CAVANO: RADC/MIS
cc: kennedy, panara, iuorno 2m

I attended a demonstration given by Data General about their Nova minicomputers. I was interested in exploring the possibility of a minicomputer application in the area of interfacing IDS to the ARPA Network. We obtained some documentation and a promise for more. Once we have had a chance to peruse that, we would like to invite these guys back for the help in formulating the role that minis might play in our MIS plans. Ironically, Gableman once called one of these guys, Dan Oliver, asking about using minis for a Center MIS. That was last spring and the Novas have come out with some new features , so this man is ready to talk turkey (and its not even Thanksgiving 9. 2m1

25-SEP-73 0842-PDT CAVANO: MIS-Center
cc: kennedy, panara, cavano 2n

See (cavano,mis-jpc,1) where I have institued a general plan of attack that we might follow in creating our proposal. I did not

include it in Stoney's joint file because I was not sure where it would fit there. I think a plan like this would be good to follow instead of just blindly striking out with no direction. Of course, it is open to debate and discussion. I would like to see us decide on some grand strategy before we becme too engrossed in the details of the job. 2n1

This file is now located at statement named gen-plan in this file. 2n1a

(DLS)..For a proposed philosophy to guide the development of this proposal (needs some modifications for the problem at hand) see (mjournal,18725,2:yg). 2o

(DLS)..Some of the categories in which we will have to dig up data, make estimates, etc for both development and operation (for both IDS and NLS) are:..any others? 2p

hardware 2p1

software 2p2

communication 2p3

terminals 2p4

computer time/load 2p5

personnel 2p6

training 2p7

privacy/security 2p8

timing/phasing 2p9

(DLS)..one of the problems we will have to face sooner or later is sizing of the user population. A quick scan of the RADC org chart reveals 39 offices in the staff and 19 in the line divisions down through branch level. 58 terminals, user ID's etc seems excessive..at least to begin with. I have no immediate way of excluding any of these offices; except by personal bias. Perhaps we could rank order them in some manner and propose to include more critical offices in phase 1, less critical in phase 2 etc. 2q

20-SEP-73 1045-PDT KENNEDY:
Party 2r

Sorry I missed the party, but, on the other hand I'm not

especially sorry I missed the confessions. Now that you are back your opinions are solicited on the RADC MIS proposal. First, much as the idea may be distasteful, we need to have a meeting with ourselves. Personally I need to digest some of the reams of paper that have been tossed at me first. Second, we must decide on a date for a pitch to IS, to present a 'plan' and a draft or at least an outline of a workstatement. Third we must come up with a method of procedure. Frank has proposed to assign the responsibility to everyone. I would like to get your reaction to this. My own feeling is that this would be an exercise in futility. Perhaps the whole thing is, but I hope not. 2r1

I suggest that we get together tomorrow 21 sep at 1000. To save the load on the comm system I shall assume concurrence unless I hear otherwise. 2r2

Date: 17-SEP-73 1155-PDT CAVANO: Generaltion of an Information System 2s

You will shortly receive a printer copy of a report/proposal I have written entitled "Generation of an Information System". Many of you have probably seen this document at various stages of its develpment (in fact, Roger has probably seen it more than he would like to) but this is now the final version. It is intended to provide some background on what an information system is, how it should be used, what a MIS does, what components it is made up of, etc. I have also proposed how we could go about setting up our own version of such an animal (without too much cost or trouble) in order to demonstrate its feasibility. Parts of the system I have described are still down the road a bit and what we could easily build would by no means be operational. However, I think it is the beginning of a good target spec for MIS. THE TIMING FOR THIS RELEASE IS ALSO VERY FORTUNATE...WITH THE LATEST CALL FOR A RADC CENTER MIS PLAN. Before you can give a first cut proposal, you must first define what you are talking about. This paper is geared for that if nothing else. 2s1

EJK 12-SEP-73 07:40 18994
RADC MIS Plan 2t

Message: Just rec'd a request from FJT. He wants a first -cut proposal from us for a Center MIS. The whole cluge: contracts, equipment,training, organiztion of info and data base, cost, schedule and what have you. He knows that the statement has already been made that there is no loot available but apparently they want to spell out specifically what they do't want to pay for. In any event I feel that just perhaps this might be used as the basis for really selling a MIS. At least we can give them the chance to put their money where their mouth(s) are. I must give

Dialogue and Links for RADCMIS Proposal Effort

Frank a date for when the plan can be pitched. Due Friday.
HOHOHOHO 2t1

Related work. 3

FILES: 3a

(bethke,radcmis,) 3a1

(PANARA,MIS-RBP,) 3a2

(STONE,PAPER,) 3a3

(BETHKE,FINAL,) 3a4

(CAVANO,GIS,) 3a5

LINKS: 3b

(JJOURNAL, 19296, 1:w) 3b1

(gen-plan) by Cavano 4

We are now engaged in a Management Information System generating process. This phase encompasses planning, developing, operating and improving as we replace the present system with a new information system. To accomplish this sucesssfully, we must approach this task with a scientific outlook and a carefully formulated plan. The initial study phase is by far the most imortant part of the whole job. The best software/hardware system in the world won't help much if it is founded on unsound underlying principles. On the other hand, if we can correctly determine what needs to be done, we could probably withstand many inadequencies in hardware/software and still get the job done. 4a

Our present job should be broken up over three areas: System Planning Activity, System Developing Activity and System Life Cycle Activity 4b

SYSTEM PLANNING ACTIVITY - to determine what the information needs are and how to satisfy them. 4b1

We must study the information needs of the Center and its problems. We must also survey the envirinment - the organization structure, the operating procedures and objectives. After we accomplish this, we should be able to summarize this analysis into a blueprint of what we are trying to achieve. This sounds a bit unnecessary to some people

because everyone seems to think that they know intuitively what the problems are but if this is the case, they should be able to produce this summary right now. What this phase is really doing is defining the problem and then writing it up. 4b1a

Once this is finished, we can begin building a System Concept by formulating conclusions for recommending courses of action. This is the main brunt of the proposal itself and would do three things: 4b1b

(1) Describe solutions in terms of needs that will be met, working environments, resource requirements, timing, costs, contracts, consultation, and alternative options. 4b1b1

(2) Validate the preliminary concepts by presenting them to potential users, to personnel who will operate the system and even to personnel who will provide interfaces to the system. 4b1b2

(3) Prepare Final Concept with advantages and disadvantages. 4b1b3

SYSTEM DEVELOPING ACTIVITY - to develop the system that will satisfy the user's information needs. 4b2

After we define the system concepts in terms of specific requirements, we can organize the components of the MIS (as viewed in <cavano>gis) in relation to the requirements that will meet. In the definiton phase of System Planning, we determined current operations, procedures and responsibilities in the user organization, so now we can proceed to: 4b2a

(1) Delineate all output requirements expected of the system, all inputs, and all data calculations. 4b2a1

(2) Precisely define hardware, software and personnel components requirements. 4b2a2

(3) Define system training to include type and scope and when and to whom. 4b2a3

Within this activity we would now undergo a Design P hase that would specify the components in terms of manpower, funding and time considerations. The goal here would be to develop specs for each system component in accordance with the approved system requirements. 4b2b

The components can then be produced according to the specs developed above. Next we test each of the produced (or

obtaained) information system components- correcting all system discrepencies and obtaining user acceptance of system subsequent to a final comprehensive test. At the end, we simply install system and implement a personnel training program. 4b2c

SYSTEM LIFE CYCLE ACTIVITY - to continuosly satisfy user's needs with new or improved information systems. 4b3

This activity must provide users with system operation, maintenance (certainly by a contractor), performance testing, additional training and correcting system discrepencies as they occur. 4b3a

An evolution phase becomes critical here, especially since we are only proposing an interim system. So we must constantly be on the lookout for providing users with new, more effective or more efficient means to satisfy their changing needs (although a good MIS should be able to adapt to changing needs). 4b3b

(problems) by Cavano 5

Rather than just proposing how we should be attacking this MIS question, this section is a reflection on the work we did with the late attempt to implement some kind of an information system for the branch; what problems we ran into, what we did right, what wrong, and why the effort met with some failures. Hopefully, a review like this should help avoid the same mistakes with the current project. 5a

To begin with, I think it is important for us to decide exactly what the scope of this system is going to be. A lot of work goes into building a MIS before anything concrete can show. If the Center is serious about having us provide an information system, then we should be looking at the long range picture and our proposal should reflect this. If the Center wants only limited capabilities and if the groundrules dictate that we must prove our system along the way, then I think we are in a very tenuous position because the Center might be better off with something like FEMIS or DATA CENTRAL. When a contractor is given the job of providing the Air Force with something like an airplane, I imagine he verifies the concepts of the plane by prototypes or something. But when he delivers the final product, it has to be an airplane that flies ... and this isn't done until he has a finished and completed product.If the contractor isn't forced half way through his work to prove his plane will fly when it still only has one wing, then I wonder why we should be put into that kind of situation. If this MIS is going to fly, it will make it only if the right amount of effort is placed on the system before it is expected to prove its worth. The validity of our proposal can be judged by an examination of the work we have done in the branch with both AKW and our IDS database and our presentation of the concept we will present.

The point I am trying to make is this: we should sell the Center on a long term MIS and make them buy off on this concept. Then even though we may deliver on a step-by-step basis , we shouldn't have to keep justifying our work every inch of the way. 5b

After finalizing our long term plan and objectives, we can then turn to the next problem of determining exactly what work areas or problems are system is supposed to help solve. We must identify everyone who is going to use the system and what the nature of their work is. Once we find out what their problems are (now and in the future), how they operate now, why they are dissatisfied, etc. then we can pick some subset of their more important problems (or the ones we can solve the easiest) and decide ourselves how our system should handle them. Ideally, these problems should be of such a nature that batch programs could be applied. Then we would have a concrete vehicle to demonstrate part of our system relatively early in the game. By applying ourselves to the database design and handling some large basic problems, we should be pretty close to the logical concepts involved and by default, we would be in a good position to handle ad hoc queries and problems later. 5c

The next problem that faces us is the selection of a data administrator. The importance of this position is paramount for this is the person who will be responsible for maintaining the database, validating the data, interfacing with the users, writing SOPs, etc. The individual chosen should be knowledgeable about data management (but not necessarily IDS) yet even more importantly, he must KNOW the organization of RADC - how everything fits together, the people, how they work and more. The data administrator must be selected as soon as possible and he should be intimately involved with the other stages of development. 5d

Another potential problem that I see looming on the horizon is our choice of a query language for our system. Although we are committed to AKW and IDS (forced or whatever), we still have a choice of query languages and a decsion must be made soon. I have a contact with Honeywell who is going to give me an up-to-date status on query languages for IDS. So far we know of two, both of which are currently operating here and can be demonstrated but there might be others. One that we have is Data Query, a time-sharing subsystem. We must determinee how and when and in what ways it is going to progress. Right now, Data Query is unacceptable for our purpose and unless we find out that Honeywell is going to upgrade its capabilities, we had better look elsewhere. The elsewhere is probably ICL, a remote access system. Although ICL isn't supported directly by Honeywell, it would be a good way to rope them in with database consultation and programming support. If we choose ICL, serious thought must be given to enhancing its capabilities and response times (there is a parellel effort underway with Ray for building a general interface for GCOS

based programs such as ICL being hooked up to the Transaction Processor and this, itself, may solve the response time problem). Finally, we will be open for examining other languages that we know nothing about right now though I think this avenue is the least likely. 5e

(proposal) 6

(stone,misprop,1) 6a

(stone,bigpic,) 6b

JPC I would like to see this section beefed up considerably. It should be a detailed plan of the steps that we must follow in creating a IDS database. My own views on the steps involved in seeting up a MIS are on a higher level and should be common to any MIS. This section might concern itself with how IDS would operate under such a plan. The concept of database must also be addressed: the CMS and PMS files are truly databases in the IDS mode and cannot be used as such. Although we have neither the incliation or manpower to implement databases for the Center, we can with consulting assistance determine the design for such a database. and from that point, someone else must see to it that the database is set up and maintained. 6c

OUTLINE OF IDS-DMS PROPOSAL (Daughtry) 6d

Integrated Data Store (I-D-S) Concepts 6d1

Impact of I-D-S on Air Force/WWMCCS 6d2

DMS Design Approach on RADC 6d3

Existing-data Flow Study 6d3a

Present-future Data Requirements 6d3b

Model Organizational Sturcture 6d3c

Data Base Sub-divisional Features/aspects 6d3d

Resources Required 6d4

Data Base Administration 6d4a

Initial/Data Base Creation 6d4a1

Data Base maintenance 6d4a2

Dialogue and Links for RADCMIS Proposal Effort

necessary we can use Joe Femia's services for briefings, discussions etc. 8a3

According to Frank, Ray Liuzzi has prepared a note on a transaction processor that can go on line with DM-1. It can work with IDS-COBOL. It's called WWDMS under the WWMCS. We can draft Liuzzi for discussions etc. When WWDMS becomes viable - we can bring it into the RADCMIS. 8a4

EJK notes on Meeting one with FJT 8b

What is needed is a proposal to the Division on a Center Management Information System. The proposal should included provision for contractor support. 8b1

ground rules - Basic conditions of the proposal. The ARPANET and anything that is reasonabley available on the netshall be used in the Management Information System. Existing Computer system ie. the HONEYWELL shall be used, as well as the UTILITY. The basis of the sytem will be IDS - COBOL 8b2

IDS - COBOL is here, the NLS utility is almost here. Both of these have sufficient merit for non-military purposes that much of the work will be done by the contractor independently of our need and our support. 8b3

We must prepare a draft work statement for a contractor. The starting point is what we have NOW. We do not start a new system. 8b4

Formatted files - available down to Branch level..Inputting capability - one per Division. 8b5

What does it take? $200,000/year for several years to develop. The type and number of people should be determined by study. 8b6

Cost estimates must be made for implementing the Management Information System for the entire center. But, in order to get anything started, Phase one must be a cheapie. 8b7

Frank, in describing how he visualizes the development is thinking in terms of a takeoff on the way I once described the growth of NLS. He envisions a currently small group of users(us) with a tentacle or finger going up one or two levels of command. The first stage of a center Management Information System, would be some broadening of the base ie. our Branch possibly the whole division. Other lines going up in the other division and in all divisions up to the commander and selected elements of staff. The next phase would include a broadening at the lowest level to give the peons in the other divisions some capability to use the system

and in that way broaden the data base. Additionally there will be a broadening at the top to include the rest of the staff. As the final phase, there will be a proliferation through the Center (Frank says from the top down). 8b8

Primary concern of the immediate effort has to be the first phase, but we should remember that this is to be a continuing effort and consideration must be paid to continuing costs. 8b9

The plan must account for Cost, Time, Impact, and facilities. For impact, tradeoff dollars for people (contract - reduces impact on ISI) 8b10

We should take a look at the study that was done under contract for Roy Allen. 8b11

Frank is frankly scared at the idea of wasting our people working on a bunch of vertical files instead of an integrated Management Information System. 8b12

FJT 25-SEP-73 12:03 19296
Letter from Commander on Center Computer Support
Location: (JJOURNAL, 19296, 1:w)
8c

Dialogue and Links for RADCMIS Proposal Effort

(J30008) 25-JAN-74 08:24; Title: Author(s): Duane L. Stone/DLS;
Distribution: /JLM EJK RFI JPC RBP ELF DLD2; Sub-Collections: RADC;
Clerk: DLS;
Origin: <STONE>RADCMIS.NLS;1, 25-JAN-74 08:17 DLS ;

DLS 25-JAN-74 09:00 30009

Initial Thoughts for AKW Direction in CY-74

This document plus Joe's formed the beginning thinking on where the AKW group should go in 74. A highly disorganized meetion was subsequently held. The result of this meeting was that Stone would prepare an initial plan, to make the direction more explicit. This is in Journal (,30010,).

DLS 25-JAN-74 09:00 30009

Initial Thoughts for AKW Direction in CY-74

Thoughts for planning 74 course of action with NLS at RADC. 1

Mac..from our brief conversations, I have distilled this picture of the organizational situation: 1a

It is apparent that we need to become more "customer oriented" during this year, if we are to have a continued NLS program at RADC. 1a1

IR is pointed to, as the leader in the way we should operate within the Center. Go out and get user dollars to do your R&D. (even though, talking with IR troops, they will readily admit that their R&D is minimal) 1a2

These forces eminate from the Commander's office, where apparently there is a generally bad feeling toward IS, toward ISI in particular. Within ISI, ISIM is in more trouble than ISIS..perhaps because ISIS's program is more readily understood in terms of "Cost Reduction" R&D; where as ISIM's efforts are aimed at increasing the scope of services provided by a computer..in AKW's case, primarily to non-programing personnel. 1a3

It seems that not only is the commander unsympathetic with ISI's problems, but that his advisors, Gabe and Dr. C, are also less than supportive. 1a3a

Given this basically hostile environment, and a general shortage of funds in 5581 and 5550, what can we do to assure that NLS survives, and perhaps even prospers. 1b

Sometimes I feel that there isn't really a "shortage" of funds, so much as a lack of a clear definition of priorities. This was apparent in the program review this fall, in preparation for the TPO briefings. If you look at the scanty statements of priorities in the TPO-11 and in a blurb prepared for visiting fireman, they certainly favor Nelson's type work. 1b1

"The general objectives of this TPO are to develop techniques to improve the reliability, reduce the cost and increase the usefulness of computer systems to the Air Force." (LJOURNAL, 19611, 1c:w), TPO-11 (11 OCT 73) 1b1a

FJT 19-NOV-73 06:31 20368
Summary of Accomplishments for ISI (past 5 years)
Location: (IJOURNAL, 20368, 1:w) introduction contains some remarks by FJT on the priority of problems being tackled by ISI, for Dr. LeBerge Visit. 1b1b

About five years ago, the computer was emerging from

a period where it was used as a stored program adding machine in support of scientific calculation and business accounting, to a period of development as an indispensable tool for Air Force resource management, battlefield deployment and weapon utilization. When the computer was used, primarily in support of accounting and scientific functions, it was operated solely by specialists called analysts and programmers. For these essentially civilian computer applications ease of operation, speed, on-line interaction, reliability, and even cost were not critical. 1b1b1

For military applications, however, these are important and accordingly, five years ago the priority list of Air Force Information Processing research goals read: 1b1b2

Ease of Operation 1b1b2a

On-Line Interaction 1b1b2b

Speed 1b1b2c

Reliability 1b1b2d

Cost 1b1b2e

Security 1b1b2f

It was recognized that if the computer is to be used as a real-time aid to the military decision maker, the decision maker himself must have direct access to the computer. 1b1b3

Today, five years later, the list of goals is still valid. However, the priority has changed because of accomplishments related to ease of operation, on-line interaction and hardware reliability, to: 1b1b4

Reliability (Software) 1b1b4a

Security 1b1b4b

Cost 1b1b4c

Speed 1b1b4d

On-Line Interaction 1b1b4e

Initial Thoughts for AKW Direction in CY-74

Ease of Operation 1b1b4f

The future emphasis will be toward less labor-intensive operations of the Air Force* and, accordingly, there will be a trend toward more automation. This will result in a desire for more automation,and accordingly result in the acquisition of more and more computing power and an attedant dramatic increase in the cost of software. 1b1b5

From brief talks with Frank, he apparently feels that NLS is doomed if we don't get support from outside the Branch. He feels that the recent go-around with Fred Diamond and company of the comm division was an attempt to do this. He also feels that he has done his part in bringing together the principle people involved, and that it is up to the engineers to follow through with further sales pitches, plans, pushes, etc. 1b2

MY CONCLUSION FROM ALL THIS IS THAT WE HAVE TO IMPROVE OUR CREDIBILITY WITH FRANK, BEFORE WE CAN EVER HOPE TO EXPOSE OURSELVES TO THE OUTSIDE WORLD. AFTERALL, HISTORY TELLS US THAT IT HAS BEEN FRANK WHO HAS GIVEN US MONEY SO FAR. 1b3

74 may very well be the "year of the huckster." 1c

My concern is that if we can't somehow carve out a couple of men for basic work with NLS, that we will have nothing to sell, save computer time. Internal (to the group) expertize has barely kept up with system changes over the past year. Still no one who knows anything about L-10. No concrete plan for bringing up Nelson's section. The evaluation aspect of the project has fallen by the wayside. No one is concentrating on developing procedures for using the system within the branch. We are completely dependent upon SRI for everything, from training to new system software. 1c1

Following is Joe's basic outline: 1c1a

1) Where we are now... in terms of money, people, knowledge, commitments, systems, etc. 1c1a1

2) Discovering the direction we want to move in 1c1a2

3) And explicitly defined objectives of exact positions we want to be in the future...so that we can adequately judge our accomplishments it terms of meeting these objectives. 1c1a3

1) Where we are now... 1d

Initial Thoughts for AKW Direction in CY-74

HARDWARE..we seem to have a pretty good complement of terminals/periphials, communications and computer time. 1d1

TERMINALS 1d1a

20 TI's Execuports 1d1a1

5 TYCOMS (for better or worse) 1d1a2

2 line printers 1d1a3

3 IMLAC's 1d1a4

4 Termicette Digital recorders 1d1a5

COMMUNICATIONS 1d1b

15 dial up lines to the TIP 1d1b1

can have XX direct connect within a week or so notice.. 1d1b2

The ARPANET may be saturated, but we can only bitch if this becomes really troublesome. 1d1b3

COMPUTER TIME 1d1c

We have purchased access to a PDP-10X running NLS for about 5000 hours; spread over 16 hours a day, 6 days a week, for a year. During this time we can have an estimated minimum of 5 users on at any one time. 1d1c1

PEOPLE..We are weak in project people and have made modest gains in the user population. We have limited access to SRI troops, primarily for training and general support. 1d2

PROJECT 1d2a

5 people on paper..Kennedy, LaForge, Panara, Cavano, and Stone....plus 2 helpers Bobbie and Anna. My subjective assessment of the actual amount of time each has to spend on project work is: 1d2a1

Kennedy .. about 75%, the rest is spent in interfacing with FJT, front office, and other potential RADC users. 1d2a1a

LaForge .. about 50%, which really means that I don't know. 1d2a1b

Panara .. about 25%, due to his work on 5550. 1d2a1c

Cavano .. about 25%, due to involvement with IDS and Center MIS. 1d2a1d

Stone .. about 75%, some amount of contractual overhead, sales, pitches etc. 1d2a1e

Bobbie .. about 50%, due to her role as "girl Friday" to Frank and support to TJB. 1d2a1f

Anna .. about 0% right now because of support to DLD and IDS update, I can't estimate when she might be free again to work on NLS. 1d2a1g

I feel that if someone can't spend at least 50% of his time on project, then he really can't contribute much to the advancement of the cause. This means that we have only 2 manyears..2 1/2 if we count Bobbie, that might be available to move us ahead in some way. If Joe could wiggle out of IDS in some way, then this might go to 3. 1d2a2

USERS..besides the project people, there are only 7 other who use the system with any degree of regularity.....Bergstrom, Daughtry, Rzepka, Lamonica, McNamara, Lawrence and Liuzzi. 1d2b

Following is a sort by CPU HOURS on RADC user statistics for a couple of weeks ago...as soon as they send me the last week in the year, I will compile stats for the last 6 months of this year and have a better idea of the actual users. 1d2c

NAME DIR	CPU HRS	CON HRS	CPU/CON	% SYS	CON/CPU:1
WINGF 10	.002	.095	.021	.004	47.500
LAFOR 27	.026	2.002	.013	.053	77.000
MCNAM 95	.027	1.334	.020	.055	49.407
BERGS 70	.040	1.312	.030	.081	32.800
TOMAI 25	.041	1.158	.035	.083	28.244

THAYE 8	.052	3.808	.014	.106	73.231 1d2c7
IUORN 38	.067	3.561	.019	.136	53.149 1d2c8
DAUGH 53	.085	4.971	.017	.173	58.482 1d2c9
KENNE 72	.091	4.132	.022	.185	45.407 1d2c10
CARRI 22	.120	5.224	.023	.244	43.533 1d2c11
LAWRE 91	.121	3.982	.030	.246	32.909 1d2c12
PANAR 103	.130	7.987	.016	.264	61.438 1d2c13
LIUZZ 76	.187	8.235	.023	.380	44.037 1d2c14
CAVAN 124	.234	11.053	.021	.476	47.235 1d2c15
STONE 167	.483	22.608	.021	.982	46.807 1d2c16

There is almost no "organizational" use of the system outside the project group. It is being used by non-project people primarily as a personal aid..very little for inter/intra group communication. 1d2d

KNOWLEDGE..includes working knowledge of the system and of the RADC environment. Necessary before we can translate thoughts into plans into deeds. 1d3

My subjective rank order of the project peoples' relative knowledge of the system (with Marcel as 0 and Norton as 10). It would be interesting to have everyone in the group rate the rest of the group. 1d3a

Kennedy..3..lacks experience with DNLS, but has gotten into user progs and cross file goodies 1d3a1

LaForge..1..a relatve beginner 1d3a2

Panara..2..beginning DNLS, could use split screen, calculator, and cross file things. 1d3a3

Cavano..4..the L-10 expert 1d3a4

Stone..5..has most time in grade. 1d3a5

I guess we all know something about how RADC operates, but I'm not sure that it is that relevent to the problem at hand. 1d3b

DOLLARS..Frank will have to come up with $100K in FY-75, to complete the funding of RADC's portion of the Utility. Beyond that its anybody's guess as to whether we get any more from Frank. 1d4

3) explicitly defined objectives of exact positions we want to be in the future...so that we can adequately judge our accomplishments it terms of meeting these objectives. 1e

I have put this second, feeling that if we could define reasonable objectives, we could perhaps find at least one path from here to there. 1f

By the end of 1974, I would like to see: 1g

everyone in Tomaini's Branch (and a couple of people at Division level) using the system on a daily basis 1g1

the replacement of conventional techniques of communication and documentation with those availible in NLS....even to the point of doing things which are not quite "natural" with NLS. 1g2

a PSO consisting of Bobbie, Buccerio, Marcel, and Carm....possibly in one office 1g3

smoothly running procedures for organizational use of the system, including the collection of data pertainent to dollar and manpower expenditures. 1g4

the development of L-10 programming capability in-house. 1g5

a document describing in some detail the cost and benifits associated with the use of the system. 1g6

a general attitude of acceptance of the system at Division level. 1g7

2) Discovering the direction we want to move in 1h

DLS 25-JAN-74 09:00 30009

Initial Thoughts for AKW Direction in CY-74

(J30009) 25-JAN-74 09:00; Title: Author(s): Duane L. Stone/DLS;
Distribution: /EJK JLM RFI RBP ELF JPC FJT(for your information);
Sub-Collections: RADC; Clerk: DLS;
Origin: <STONE>74.NLS;2, 25-JAN-74 08:52 DLS ;

Mr. Aaron Navarro of PRC has requested a short meeting on 31 Jan (Thur) at 1430 hours. The purpose is to discuss the nearly completed contract to imbed software Monitors in a DMS (I-D-S). The underlying reason for Aaron and his Department Manager wanting the meeting may be to look for ways of extending the contract to transfer the effort to other DMS's. Please let me know if you can attend or if another time of the day would be more appropriate. I hope Sliwa could attend also.....Dave Daughtry. 1

(J30010) 25-JAN-74 08:48; Title: Author(s): David L. Daughtry/DLD2;
Distribution: /RFI FPS RAL MAW; Sub-Collections: NIC; Clerk: DLD2;

DLS 25-JAN-74 09:41 30011

Initial Plan for 74 AKW Activity

This plan was reviewed by AKW group and JLM & RFI in an informal manner. Stone appointed himself implementer, with assurances from JLM that management directives would be issued to implement each package as it passed review and initial test.

Initial Plan for 74 AKW Activity

This document is not intended to be a exhaustive plan for integration of NLS within the ISI organization, but hopefully will stimulate contributions which will lead to such a document over the next month or so. 1

Assumptions: 2

NLS definately will not survive and grow at RADC if we cannot demonstrate its utility within the ISI branch. 2a

This implies that everyone in the Branch is using it for individual and organizational activity whenever possible. This means that NLS will be the principle/primary means of communication and documentation, and not just used occasionally by some people. 2a1

Any interest in the technology and our findings from outside the branch, will increase the chances for survival and growth, especially if the interest is accompanied by dollars. 2b

Sufficient NLS capability, terminals, computer time and communications are available now to allow use of the system to its fullest within the Branch. 2c

A number of goodies that are not now available via the net will be made available on OFFICE-1...runfile, superwatch, absentee user, NLS programming, L-10 programming, queueing of print files, catalog preparation. 2c1

The primary activity of the AKW group this year will be to make the application happen and to document the benefits and costs of applying the technology. 2d

Without the full support of management at all levels from group leader through branch chief, the efforts described below will only be an exercise. 2e

Development: 3

PSO..People Support Organization..We need to develop an active PSO which is recognized and used on a regular basis by the branch. Its duties are a combination of a clerk, typist, librarian, editor, expeditor, etc. So much of the procedure development and actual operations which follow are dependent on setting up this organization. It should consist of Becky, Tom, Bobbie, Anna, Marcel, Carm and UC/highschool temporary help. I would like to see them eventually end up in the same physical location. We should start with a core of Bobbie, Anna, and Tom. I am tempted

also to include Marcel, since I fear she will never learn the system otherwise. 3a

Procedures..The principle development activity this year should be concentrated on developing files, procedures, methods, etc for integrating the system within the ISI organization. I feel that NLS itself has more capability than we can intelligently use right now. There is no need to wait for the query system, forms generation package, interface to a data managment system, or line drawing. These systems are all coming, roughly in the order listed above. 3b

Tracking technical effort 3b1

I think that the effort writeups should be reinstituted, that the group leaders should assume the responsibility of assuring that they are current, that they be aligned with the TPO tech areas where possible, that the PSO print out key branches during the last week of each month for update by the project responsible engineers. 3b1a

In addition , I think that the form 30's, 30a's and TPO writeups should be retained in the system in an orderly manner. The form 30's and the TPO should be "live" documents, that reflect the direction and priorities of the technical efforts in the Branch at any given instant in time, not just a once a year burdensome exercise. 3b1b

Project documentation, MASIS reports, and other one time requests from management could be satisfied to a large degree, by extracting data from the above documents. 3b1c

A trip report file should be started and a visit report file, to record verbal interchanges between branch members and the outside world. I would also like to see a demo/pitch file created for AKW group. So that we can have a listing of potential customers, their interest in the technologhy and their potential for funding contributions. At least at the end of the year we could point to it and say "see, look at all the effort we have spent in seeking outside support". 3b1d

Tracking Dollar expenditure 3b2

Form 77's, 73's, etc should be entered into the system and procedures established for the PSO to extract data from them for maintaining files that are currently kept by TJB for FJT. They should be directly linked to the 30a's. They could be entered by the engineer and/or the admin office.

They should be updated when a contract is awarded with the actual dollar amount. 3b2a

A contract file should be set up, which reflects the actual expenditure of funds. Data from the CMS can be used in the begining to update them. 3b2b

Travel is a special case of dollar expenditure, which should be tracked separately. Froms should be established for the estimated travel expense, travel request, the trip report and copies of the voucher returned to the branch, for update of the actual expenditure file. 3b2c

Other catagories of fund expenditure for schooling, etc will be considered later. 3b2d

Tracking Manower expenditure 3b3

Existing catagories of manpower expenditure can be used..alla job order numbers..form 2. Procedures should be set up for collecting the data daily, probably initially in hard copy form. Files should be established for listing the data and performing calculations on it. From 2's should be filled out for the individual by the PSO, and brought to him for verification...likewise time cards. Later on we can develop more sophisticated time accounting categories. 3b3a

Contract Folders 3b4

Each engineer who has a contract should be required to maintain the equivalent of a contract folder on the system. It may contain only links to the actual documents, memos etc, but should include 77's, workstatements, evaluations, memos to and from procurement and/or sponsors/users, MASIS reports, etc. 3b4a

Operations: 4

Maintenance 4a

The facility should be given complete responsibility for maintenance. Steps have been made in this direction, but they have not completely followed through. Stickers are not on the terminals. Clean procedures are not set up between Buccerio and Rossi. Paul Riely still has my name for maintenance contact on most efforts. 4a1

Inputing 4b

The PSO should be trained in DEX for inputing of documents, files etc, where the individual is too busy, can't type, is lazy etc. The PSO should also be able to take a rough draft of any document and edit it for typos, grammar, misspellings, format. Procedures for priority processing within the PSO need to be established. Perhaps a form to be filled out by the individual submitting the document to the PSO indicating file name, timing , etc...take a look at SRI's procedures in this area. 4b1

Printing 4c

The PSO should take care of printing finished memos and getting the appropriate signitures on the hardcopy. 4c1

They should maintain a Journal hardcopy library and indecies. Maybe even run the catalogue processes in off hours. 4c2

They should also print out monthly status reports for the engineers to update, for management to read when updated etc. 4c3

The tickler file shoud be refined, procedures for entering data into it developed, and selective dissemination of the contents. 4c4

Training 4d

I view SRI as the prime source of initial training. The new HELP subsystem should take care of the situation where the user knows about a command, but isn't sure of the options or format of input expected. However, there are N levels of training required beyond that. Jim Bair has defined these levels to some degree. There are also procedure type things that can be taught. 4d1

We need a regular monthly meeting of all NLS users, where everyone is systematically exposed to new goodies and procedures. 4d2

Analysis: 5

We need to take a systematic look at the evaluation problem. Outside influences indicate that we should concentrate on manpower savings. Some thinking has been done along this line by me in the RADCMIS proposal. Perhaps we should amplify on this and at least do some pencil and paper projections for the Center as a whole. What offices could be eliminated or drastically reduced by implementing NLS through out the Center? Within our branch for example, I would guess that all the admin activity could be handled by 2-3 people, instead of the 7 people we now have. The

Base comm study has made these types of projections, as will the SADPR-85 study group. The exercise of trying to make these projections can reveal the areas in which we are most lacking in knowldege, and could thus be used to guide any evaluation efforts we can make with our limited resources. 5a

Costs..The costs of the system and its related components is fairly well know. SRI is doing a good job of making these explicit. One area which I feel they are deficient is in the training costs. I view the introduction of Nelson's shop to NLS as an excellent chance to determine some of these costs..ie, manpower time of trainer and trainee and system time to get a user to some initial level of proficiency. We won't know if Sylvia Mayer's SCHOLAR is competitive, if we don't have some handle on these costs. Neither can we intellighently advise potential users without this data. I think BCM and SADPR have ignored these aspects of the automation game (probably on purpose). 5b

DLS 25-JAN-74 09:41 30011

Initial Plan for 74 AKW Activity

(J30011) 25-JAN-74 09:41; Title: Author(s): Duane L. Stone/DLS;
Distribution: /JLM EJK RBP TFL JPC ELF RFI FJT(I hope to accomp. most of
these in next 1-2 mos.); Sub-Collections: RADC; Clerk: DLS;
Origin: <STONE>PLAN.NLS;8, 21-JAN-74 11:22 DLS ;

JHB 25-JAN-74 10:12 30012

Resend of Transfer Annoucnement to Bell-Canada

Please read to find out about trouble shooting and feedback.

JHB 25-JAN-74 10:12 30012

Resend of Transfer Annoucnement to Bell-Canada

For some reason this did not reach Bell users, so here is the second try: 1

ANNOUNCEMENT: TRANSFER OF USERS TO THE UTILITY, OFFICE-1. 2

OFFICE-1 is now ready to accept users. We have completed a 6 day trial period with better than the required 90% up-time. 2a

You may begin using the new system on: 2b

FRIDAY JANUARY 25 at 8 AM EDT 2b1

by calling (408) 996-2300, typing a "control C", and logging in. 2b2

The entire contents of all directories will be transferred to Office-1 the evening of Thursday, 24 Jan. by Utility staff. Thus, all your work will exist at Office-1 as you left it Thurs. afternoon. PLEASE LEAVE ALL FILES UPDATED 2c

Your directory name will be retained at ARC (host 2) for the time being so that you may continue to receive messages at that host from users who are not aware of the change. 2d

HOWEVER, YOU WILL NOT BE ABLE TO DO ANY WORK AT ARC after Thursday evening. 2d1

Effect on Send Message: You may sndmsg to ARC personnel by entering THEIRNAME@SRI-ARC. 2e

Effect on the Journal: The Journal will continue to operate as if there were one system. This will be done by running duplicate Journal Systems at each host. The systems will update each other daily. There will be no change in the way Journal items are sent or in the distribution, catalogging, etc. of them. 2f

RADC and Bell Canada are the first groups to use OFFICE-1, ARC's first experiment in offering NLS as a subscription service. There probably will be bugs involved with bringing up a new system, so please bear with us. Thank you for your patience and welcome. 2g

PROBLEMS AND COMMENTS: 2h

Operational problems: Link to (Martinez or Blum) or call the operator at Tymshare, Inc. ((408) 257-6550, ask for operations -- have them page the computer operator). They will be responsible for restoring files, crashes, and other computer operator kinds of problems. 2h1

Resend of Transfer Annoucnement to Bell-Canada

Send all other comments or problems to the Feedback directory at OFFICE-1. SNDMSG (for immediate action) to FEEDBACK; Journal (for most problems/comments) to the idant FEED. This will be reviewed daily, and your messages answered. 2h2

JHB 25-JAN-74 10:12 30012

Resend of Transfer Annoucnement to Bell-Canada

(J30012) 25-JAN-74 10:12; Title: Author(s): James H. Bair/JHB;
Distribution: /PAN PF JHK2 PIW IMM LHD MIKE DMA RLT DLH;
Sub-Collections: SRI-ARC; Clerk: JHB;
Origin: <BAIR>MOVE.NLS;1, 25-JAN-74 10:07 JHB ;

JHB 25-JAN-74 10:18 30013

Test of Ident Bell-Canada

This is a test of the Group Ident BELL-CANADA. Inez Mattiuz: Please respond by checking to see if all your people get this Journal message. I have specified the ident BELL-CANADA in the distribution...if it works it can be very useful to you for sending mail to the entire BPG group. Please let me know, Thanks, Jim. 1

Test of Ident Bell-Canada

(J30013) 25-JAN-74 10:18; Title: Author(s): James H. Bair/JHB;
Sub-Collections: SRI-ARC; Clerk: JHB;

DLS 25-JAN-74 14:24 30014

///edactron

This is the message as I received it. Certainly I would be nnm or than happy to % (3 4(% 2%0/24 /. ???(4)3 (00%.).' 1

25-JAN-74 10:18:55,281 1a

------- 1b

Date: 25-JAN-74 1018-PST 1c

From: MCNAMARA 1d

Re: redactron 1e

- - - - 1f

I have a Mitre guy here who wants to load a file into my directory and have me ship to Charlie Strom by having someone like you output it on the pronter% (3 4(% 2%0/24 /. ???(4)3 (00%.).' 1g

------- 1h

There should be no problem in printing it out and sending it to charlie Strom....If you can get into the system. 2

///edactron

(J30014) 25-JAN-74 14:24; Title: Author(s): Duane L. Stone/DLS;
Distribution: /JLM; Sub-Collections: RADC; Clerk: DLS;
Origin: <STONE>MAC.NLS;1, 25-JAN-74 14:16 DLS ;

Top Secret clearance for WWMCCS personnel

RADC/ISIM/2672 28 January, 1974

Clearance for WWMCCS Support Personnel

RADC/ISI / IS in turn

1. Reference RADC/ISIM letter same subject, dated 10 May 1973.

2. RADC/IS is expecting to be tasked to provide technical support to the WWMCCS community as required by User Sites and AFSC. As stated in the referenced letter, personnel requiring access to WWMCCS sites will need top secret clearance.

3. It is requested that the following RADC personnel be processed for top secret clearance in addition to those listed in the referenced letter.

Nelson, Richard

Elefante, Donald

Motto, Richard

White, Douglas

Iuorno, rocco

Bergstrom, Deane

Normand, Fred

Vito, Armand

Kesselman, Murray

Waldon, Robert, sgt

Top Secret clearance for WWMCCS personnel

23

24

David L. Daughtry 25

Info Mgt Section 26

Info Processing Branch 27

DLD2 28-JAN-74 07:25 30015

Top Secret clearance for WWMCCS personnel

(J30015) 28-JAN-74 07:25; Title: Author(s): David L. Daughtry/DLD2;
Distribution: /FJT RFI RHT2; Sub-Collections: NIC; Clerk: DLD2;
Origin: <DAUGHTRY>620TRNG.NLS;1, 28-JAN-74 07:19 DLD2 ;

MIKE 28-JAN-74 10:26 30016

problem with journal index links

I find that a get messages telling me that there are no journal indexes on-line, and even that the userguides links to the indexes are missing.....a temporary oversight, I presume, unless I've made some drastic false assumptions. 1

MIKE 28-JAN-74 10:26 30016

problem with journal index links

(J30016) 28-JAN-74 10:26; Title: Author(s): Michael T. Bedford/MIKE; Distribution: /FEED MIKE IMM; Sub-Collections: NIC; Clerk: MIKE;

MIKE 28-JAN-74 12:29 30017

Comparison of Hazeltine and Delta Data as used by ARC staff

This will fill you in on developments to date, and also give Penny some practice in the Journal system.

Comparison of Hazeltine and Delta Data as used by ARC staff

Mike: Here is the data we have compiled so far comparing Hazeltine's 2000 display terminal to Delta Data's 5200. 1

CONTENTS: 1a

(RECOMMENDATIONS): -- Delta Data 5200 or Hazeltine 2000 2

We here at ARC prefer the Hazeltine terminal because of COST, SPEED, TV-OUTPUT, and the fact that, to us, the text appearance (aesthetics) is satisfactory, even though it is not as good as Delta's. 2a

(SPEED): -- screen operations 3

Hazeltine's screen operations are very much faster; we have made some meaningful comparisons, and do feel that Hazeltine's faster screen operations are a definite advantage. Both will run up to 9600 baud. 3a

(COST): -- comparison 4

Hazeltine is much less expensive. 4a

(With upper-lower case and remote monitor options and enough memory for a full screen of text): 4a1

Hazeltine 2000:	$3,595.	$87/mo /yr.	4a1a
Delta Data 5200:	$4,950.	$220/mo /yr.	4a1b

Comparison of Hazeltine and Delta Data as used by ARC staff

(AESTHETICS): -- text appearance 5

1. Delta has the best text appearance. -- Hazeltine's screen is physically smaller and can display only 72 characters across, Delta Data is an nice size screen and can display 80 characters across. The Hazeltine character matrix is 5 x 7 where Delta Data's is 7 x 9, which yields better character registration. 5a

2. Hazeltine's characters are somewhat out of focus at the edges. They use a long persistence tube which further degrades focus and leave a mouse trail when ever the Mouse is moved. 5b

(CURSOR): -- tracking appearance 6

Delta Data has the best cursor tracking. Hazeltine's is sloppier, and has extraneous movements to the edges, but is quite usable. Both have a blinking cursor, but can be ordered non-blinking. 7

(KEYBOARD): -- comparison 8

1. Hazeltine's keyboard is detachable, Delta's is not. 8a

2. Hazeltine's key action feels snappier. 8b

3. The repeat key function for Hazeltine requires the operator to depress a repeat key in addition to the character key. On the Delta terminal it is a time function -- if you hold any key down for more than a half second it sends repeat characters, which is extremely annoying. 8c

(TERMINAL-POWER-UP): -- comparison 9

The Hazeltine power-up sequence is: power on, (shift)CLEAR; Delta Data's, power on, Reset, tty mode, clear mem, online. We plan to incorporate this sequence into the power-up sequence of the line processor, however, so in the future this won't be a consideration for the user. 9a

(NOISE): -- fan 10

The fan noise in the Hazeltine is quiet. Delta tells us their new terminals are also, but we do not have one here yet to test. (Expect one by the end of the month.) 10a

(TV-OUTPUT): -- specifications and monitor requirements 11

Hazeltine uses standard 525 TV line rate with EIA sync, which can drive any standard 525 TV monitor. Delta's line rate is: 720 TV lines. -- This means that in order to display Delta's text on a

remote monitor the remote monitor must be able to sync on 720 lines. Conrac makes such a monitor (RQA series). Costs in the $1,500 range. By comparison, a typical good quality standard 525 monitor cost about $500 or $600. 11a

(LINE-PROCESSOR): -- related capabilities 12

In the Hazeltine there is no bug selection marking capability and we will use a "flashing cursor" technique. Delta Data allows underlining or blinking characters which we will use to show bug selections. We feel that the underlined character is more successful. 12a

MIKE 28-JAN-74 12:29 30017

Comparison of Hazeltine and Delta Data as used by ARC staff

(J30017) 28-JAN-74 12:29; Title: Author(s): Michael T. Bedford/MIKE;
Distribution: /PAN IMM; Sub-Collections: NIC; Clerk: MIKE;

RADC TIP BUFFER ALLOCATION -#2

#	PORT #	OUTPUT (bps)	INPUT (bps)			OUTPUT (wds)	INPUT (wds)	TOTAL (wds)	
1	1	9600	2400**	no hunt	direct	390	20	410	3
1	2	9600	2400**	no hunt	direct	390	20	410	4
1	3	9600	2400**	no hunt	direct	390	20	410	5
1	4	1200	110	no hunt	direct	160	10	170	6
1	5	4800	110	no hunt	direct	310	10	320	7
3	6-8	300	300	hunt	direct	30	30	180	8
12	9-20	300	300*	hunt	dial	30	10	480	9
1	21	1200	110	no hunt	private	160	10	170	10
2	22-23	300	300*	hunt	dial	30	10	80	11
1	24	1200	1200*	no hunt	direct	160	10	170	12
2	25-26	300	300*	hunt	dial	30	10	80	13
10	27-36	300	300*	hunt	unused	30	10	400	14
27	37-36	300	300*	hunt	unused	20	10	810	15

4090 17

* Inputs to the TIP from these devices are via keyboard therefore the input buffer allocation should be less than that dictated by line speed alone. 18

** Inputs to the TIP from these terminals are via keyboard, keyset and mouse. The mouse input requires a larger input buffer than keyboard or keyset. The TIP rejects from 5 to 10 characters from the mouse input if the input buffer is the same as is currently allocated to keyboard devices. 19

Joel, 20

The enclosed table outlines my second attempt at TIP buffer allocation. 20a

Could you send me a list of actual buffer allocation if it differs from this table. 20b

Tom Lawrence
RADC/ISCA
Griffiss AFB, NY 13441
(315)-330-7746 21

RADC TIP BUFFER ALLOCATION -#2

(J30018) 29-JAN-74 07:19; Title: Author(s): Thomas F. Lawrence/TFL;
Distribution: /JHM2; Sub-Collections: RADC; Clerk: TFL;
Origin: <LAWRENCE>PORT.NLS;10, 28-JAN-74 11:49 TFL ;10-JAN-74 12:22
TFL ;-

MIKE 29-JAN-74 08:15 30019

Bell Canada Group protection of Files - Proposal

Some time ago I talked with Jim Nortn abot the possibility of seeting up a user group consisting of all the Bell Canada USERS (for the purpose of protection on files.) We would lke to have these following users identified as one group: 1

Day, Bedford, Feldman, Kollen, Weintraub, Mattiuz, Napke. 1a

Bell Canada Group Protection of Files - Proposal

(J30019) 29-JAN-74 08:15; Title: Author(s): Michael T. Bedford/MIKE; Distribution: /RLM2; Sub-Collections: NIC; Clerk: MIKE;

RJC 29-JAN-74 11:22 30020

reminders

This is remind you that CONFESSIONS is tomorrow (Wednesday)...also, remindng you about form 2s!!! 1

reminders

(J30020) 29-JAN-74 11:22; Title: Author(s): Roberta J. Carrier/RJC; Distribution: /RADC; Sub-Collections: NIC RADC; Clerk: RJC;

RJC 29-JAN-74 11:46 30021

reminder

Due Date - ISIM/Liuzzi/Wingfield - Draft AFROTC ROC for a Mgt Info System/Decision Model 1

RJC 29-JAN-74 11:46 30021

reminder

(J30021) 29-JAN-74 11:46; Title: Author(s): Roberta J. Carrier/RJC; Distribution: /MAW RAL; Sub-Collections: NIC; Clerk: RJC;

MIKE 29-JAN-74 11:50 30022

Query on User-programs ?

When can we expect to get the user-programs put on-line ? Also, what sort of schedule are you following for introduction of other things like the USERGUIDES,etc. ? 1

Query on User-programs ?

(J30022) 29-JAN-74 11:50; Title: Author(s): Michael T. Bedford/MIKE; Distribution: /FEED IMM; Sub-Collections: NIC; Clerk: MIKE;

Additions to the Bell Canada USER group.

We would like the following individuals entered into the Bell Canada group of USERS: 1

Mr. K.S. Hoyle 1a

Assistant Vice President - Planning; Bell Canada 1a1

Room 1105 - 620 Belmont Street; Montreal, Quebec, Canada 1a2

Telephone - Office: (514) 870-3549 1a3

Tentative Ident: KSH 1a4

Diane Day 1b

Address: 12461 Richer Avenue; Dollard des Ormeaux, Quebec, Canada 1b1

Telephone - (514) 684-7207 1b2

Tentative Ident: JDD 1b3

MIKE 29-JAN-74 12:22 30023

Additions to the Bell Canada USER group.

(J30023) 29-JAN-74 12:22; Title: Author(s): Michael T. Bedford/MIKE;
Distribution: /FEED IMM; Sub-Collections: NIC; Clerk: MIKE;

MIKE 29-JAN-74 12:24 30024

Query re the Masterfile fr Idents

What are the reasons underlying the decision to prohibit users from entering or modifying the records in the Ident Masterfile for this system? 1

Query re the Masterfile fr Idents

(J30024) 29-JAN-74 12:24; Title: Author(s): Michael T. Bedford/MIKE; Distribution: /FEED IMM; Sub-Collections: NIC; Clerk: MIKE;

H.Q. Planning Camera Week

In order to meet the growing number of requests for "demonstrations" of Englebart or OFFICE-1, we feel that we had better prepare some sort of canned package for showng to sevearal different groups over some uncertain time period. 1

The concept of a LIVE demo, or of a video-tape of a live demo spring naturally to mind, but the cold facts of the matter are that he stupid system doesn't lend itself to demonstrating (WHY ? Good qestion for further research - might tell us something about the system itself if we could answer it.), and further more, even if it were demonstratable (apologies to JHK), the physical demonstration of the system (wth all its tricks, short-cuts, etc.) would take away from the underlying concept of the system - its ability to permit different members of a knowledge community to share information to an extent never before possible. 2

That last statement is a little bit long for a message of this type. 2a

Consequently, we have decided to go the route followed by Gord Thompson in preparing a number ofslides which describe the concepts of intellect augmentation in visual, poetic terms, and accompany their presentation with an audio track (verbal plus musical, where appropriate.) 3

I suggest we have a sort of a Wide-open Camera Week at BPG, starting next week, if possible. 4

Range of Slide Subject Matter 5

classic situations in pre-augmented days 5a

Wasted paper, time, man-hours, dollars, etc. 5a1

low level of communication within the group / between this and other groups 5a2

trying to make one document serve several purposes/audiences 5a3

conditions with OFFICE-1 (hopefully different) 5b

typical workspace, examples of materials stored, examples of different types of interaction possible; 5b1

it's important to realize that these "examples" of workspaces, etc., must be more than pictures of display information; the information must be in a visual, poetic form if it is do more than the accompanying words or a LIVE demo of the system could do. 5b1a

Good luck with your photography, and thanks for your cooperation. (P.S. Since this presentation will be viewed by some very senior managers in the company, let's keep the pornography to a minimum.) 6

H.Q. Planning Camera Week

(J30025) 30-JAN-74 13:46; Title: Author(s): Michael T. Bedford/MIKE; Distribution: /LHD PIW MIKE IMM; Sub-Collections: NIC; Clerk: MIKE;

you are quite welcome...Duane did hand the documents to me several days ago...I do use the nls system often to create files of work related info; however I do not see the value, or, its effective use as a communication tool within the structure (organization) here. Important messages are never seen and action items are disregarded. The old method of handing the boss a hard copy works and action is taken.....My regards ....Dave Daughtry 1

(J30026) 30-JAN-74 13:49; Title: Author(s): David L. Daughtry/DLD2; Distribution: /JHB JHB; Sub-Collections: NIC; Clerk: DLD2;

DLS 31-JAN-74 13:48 30027

PROPOSED TRAVEL REQUEST

Create a new file, call it travel, trip, etc. Copy the contents of the file indicated in the link above into the newly created file. Instructions for filling out the file are contained therein. Sndmsg or link to Bobbie when you have completed filling out the form. Don't delete the file, until Bobbie gives you the word.

PROPOSED TRAVEL REQUEST

Fill out this form by inserting text at the end of each statement containing a :, except for the statement named (Serial), which is a control number assigned by Bobbie. This can be done by first positioning the command marker at the first statement to be filled out. Do this by typing <SP>.name<CR>, where <SP> means the space key and <CR> means the carriage return key. 1

1. Then type it> <CR>.....text.....<CR> Which means insert text at the end of the statement. 1a

2. Then type <LF>...hit the line feed key...which means print the next statement, and repeat the step above. 1b

Where multiple entries are required (as in more than one traveler or more than one desination), complete the first entry, type ↑V<CR>, (that's control V followed by carriage return) and make the second entry...same for third, fourth etc. When completed with all entries for a single data element, finish the insert text command with a <CR>. 1b1

Cycle through the above 2 steps until the form is completely filled out. Then update the file by saying u<CR> Link to Bobbie or send her a message using the sndmsg subsystem at TENEX level and tell her you have completed a Proposed Travel Request form and give her the file name you have assigned it. She will notify you when its OK to delete the file. 1c

(Serial) number: 2

(Name)(s) of Traveler(s): 2a

(Symbol): 2b

(Date) of Departure: 2c

(Number) of days: 2d

(Clearance): 2e

(Destination): 2f

(Purpose) of Trip: 2g

(Person)(s) Contacted: 2h

(Mode) of Travel: 2i

Govt: 2i1

PROPOSED TRAVEL REQUEST

Comm:	2i2
Priv:	2i3
(Job) Order Number:	2j
(Directed) by or non-directed:	2k
(Cost) estimated	2l
(Air) fare:	2l1
(Car) rental:	2l2
(Per) diem:	2l3
(Auto) Personal:	2l4
(Total):	2l5
(Advance):	2l6
(Time) and Date of Meeting:	2m
(Special) travel arrangements..instructions to the secretary etc:	2n

DLS 31-JAN-74 13:48 30027

PROPOSED TRAVEL REQUEST

(J30027) 31-JAN-74 13:48; Title: Author(s): Duane L. Stone/DLS;
Distribution: /RADC; Sub-Collections: RADC; Clerk: DLS;

RADC TIP DIALUP NUMBERS

TIP NUMBERS: 1

- 4172 1a
- 4173 1b
- 4174 1c
- 4175 1d
- 4176 1e
- 4177 1f
- 4293 1g
- 4777 1h
- 2073 1i
- 2884 1j
- 3300 1k
- 3302 1l
- 3600 1m
- 3613 1n
- 3733 1o

RADC TIP DIALUP NUMBERS

(J30028) 31-JAN-74 08:53; Title: Author(s): Thomas F. Lawrence/TFL;
Distribution: /RADC; Sub-Collections: RADC; Clerk: TFL;
Origin: <LAWRENCE>NUM.NLS;2, 31-JAN-74 08:51 TFL ;

ELF 31-JAN-74 11:32 30029

testes

test of directory. tell me if you don't gt this 1

testes

(J30029) 31-JAN-74 11:32; Title: Author(s): Edward F. LaForge/ELF;
Distribution: /AAC; Sub-Collections: RADC; Clerk: ELF;

DLS 31-JAN-74 13:57 30030

EXPERIMENTAL TRAVEL PACKAGE PROCEDURES FOR ISI

Additional information for those that wonder what is going on behind the scenes.

EXPERIMENTAL TRAVEL PACKAGE PROCEDURES FOR ISI

This document contains a set of procedures (NLS and people) for handling the travel documentation and management information requirements of the ISI Branch. It is planned to set up these procedures, test them and with the necessary modifications to implement them as SOP's for the Branch. 1

It does not consider the interface with IDS at this time, however, this should be a straight forward process when the IDS coordinator has been appointed. 1a

The travel system will serve several functions 2

document proposed travel, estimated funding and trip reports 2a

allow for approval of proposed travel in a timely manner 2b

establish roles and responsibilities of ISI personnel with regard to travel documentation, approval, control and filing. 2c

provide for orderly interface to IDS when necessary. 2d

The above should be accomplished with minimum burden on the traveler. It should be possible to supplement the searching provided by IDS, with existing tools in NLS. 3

Four types of people are recognized in this document: the traveler, the controler, the approver and the typist. 4

The traveler is anyone in the Branch who wishes to travel or who has just returned from travel. 4a

The controller is a person in the Branch Admin office (Bobbie for the time being), who has responsibility for making sure the documents submitted to her are in proper format and contain the correct information. In addition she maintains all the necessary files in the system, and assures that NLS and ISI procedures are being followed. 4b

The approver is Frank Tomaini or his designated substitute in his absence. 4c

The typist may be any NLS user, an engineer or one of the secretaries. 4d

FLOW 5

The overall flow will be: 5a

The traveler will submit his Proposed Travel Request, either using

NLS or filled out by hand to Bobbie. If it is not on the system, Bobbie will type it in herself, or get one of the secretaries to do it. 5a1

Bobbie will verify the contents of the form, checking estimates with Tom if she doesn't know. 5a2

She will print it out on the TYCOM, and give it to Frank for approval. 5a3

If approved she will give the printout to a secretary for preperation of the travel orders. 5a4

She will create the travel log file for the Div from the Proposed Travel Request using NLS commands 5a5

Once a week she will send the Travel Log file to Aggie, and/or print it out and give it to Div. 5a5a

She will create standard heading material for the engineer, and place it in his travel file. 5a6

When the engineer comes back, he will fill out the Summary portion of the trip report, and notify Bobbie when comleted. 5a7

The Voucher will be prepared by a secretary, and given to Bobbie 5a8

She will attach the trip report and forward up the chain of command. 5a9

She will journal the trip report and send copies to those indicated by the engineer 5a10

If the trip repoert is to go outside the Div, she will give it to secretary for retypeing on offical AF form. 5a10a

Bobbie will update the control file with appropriate entries 5a11

FILES 6

There will be 4 files maintained by Bobbie, in addition to a Journal file containing a blank Proposed travel Request form. Users of NLS will have a branch in their initials file, called (forms), with links to Journaled files of blank forms. The Journal forms will contain instructions on how to fill out the form and what to do with it when it is completed. Bobbie will keep 4 working files (see appendix 1): 6a

PROPTRIP 6a1

Contains completed Proposed Travel Request forms 6a1a

TRIPLOG 6a2

Contains the equivalent of the the Travel Log she now prepares weekly for the Div. on estimated travel expenses. 6a2a

TRIPREPORT 6a3

Contains completed Trip Reports from travelers 6a3a

TRIPCONTROL 6a4

Contains a Control file with links to Journaled files that fall out of the whole process. 6a4a

PROCEDURES 7

For the traveler to follow: 7a

Whenever you are planning a trip, you must first fill out a Proposed Travel Request form and submit it to Bobbie. This form is used for a number of purposes, to: 7a1

obtain approval from Frank for the travel. 7a1a

to provide instructions to the secretary for commmpletion of the orders in the event that the travel request is approved. 7a1b

collect estimated travel expenditures for submission to Jack G. 7a1c

All people in the ISIM section will fill out the form on-line using NLS. A link to the blank form with instructions on how to fill it out will be placed in your initials file under a branch named (forms). 7a2

Create a new file, call it travel, trip, etc. Copy the contents of the Proposed Travel Request file into your travel file and print it out so you can read the instructions. After filling out the form, link to Bobbie, or send a message, and notify her of the file. This same file will be used to prepare your Trip Report, so DON'T DELETE IT. 7a2a

When you return from a trip, you must complete a Trip Report before the travel voucher will be processed (an internal IS rule which is probably unconstitutional). Load your travel file and you will find a partially filled out trip report form. Review the existing data and correct it if required. Fill out the remainder of the report and notify Bobbie that it is

complete. She will print it out and attach it to your voucher when it comes up from the secretary. When you receive a Journal reference citing your trip report, you may delete the trip file in your directory. 7a2b

The people in the ISIC section will be provided with blank Proposed Travel Request forms, which they can fill out by hand. It is not necessary to have them typed. They can hand them in to their secretary or Bobbie. When they return from the trip, they will be given a partially completed Trip Report, which they should review, complete and return to Carm or Bobbie. 7a3

For the controller to follow: 7b

After receiving Proposed Travel Request form from anyone, assign a serial number and check to see if the entries are OK..check with Tom to see if the cost estimates are reasonable, if you don't know yourself. 7b1

Make any changes in the form necessary and print it out on the TYCOM for Frank to see. After he verifys it, give it to the appropriate Section Secretary so she can type out the orders. 7b2

Submit the branch starting with the serial number to the journal, with a distribution to the traveler(s) who initiated it. 7b3

We should think about titles for the journal submissions, so that they remain consistent and are useful for retrieval...maybe the serial numbers would be sufficient. 7b3a

Compile the content analyzer pattern in branch 1 of your ptrip file. 7b4

Do this by saying Goto Programs Content analyzer No .prog<CR> 7b4a

Then assimilate the filtered contents of the file into the Ltrip file by typing: 7b5

```
Execute Assimilate Branch to (,ltrip,)<CR>
from .serial<CR>
L: <CR>
V: i<CR>
```
7b5a

You will be in the TRIPLOG file now, so say Update<CR> and then go back to the PROPTRIP file by typing <SP>&<CR>....this means go back to the file I just came from. Delete branch 2 or the .serial branch in the PROPTRIP file and Update. 7b6

Once a week load the TRIPLOG file, Print Branch <CR> mwGy <CR>

on the TYCOM and give it to Jack. Maybe later Aggie will get it herself. Submit the file to the journal (with a distribution to Aggie), delete plex .1, and Update it.

**7b6a

As links to Journaled PROPTRIP, TRIPLOG and TRIPREPORT files appear in your directory, you will want to organize them in a manner convenient for searching. You can move them to a TRIPCONTROL file (Travel Control file) under appropriately named branches. The organization depends on what questions Frank may want to ask of the file, and on whats convenient for you. 7b7

APPENDIX 1 8

PROPOSED TRAVEL REQUEST 8a

The key file in the whole travel package is this form. The proposed Travel Request form. It will be Journaled and Links to it inserted in the (forms) branch of each users initials file. If there are changes in the form the link will be replaced by the PSO personnel, so the user will not have to be bothered or confused as to which version is current. The file will also contain directions on how to fill out the form. The file will look something like: 8a1

Fill out this form by inserting text at the end of each statement containing a :, except for the statement named (Serial), which is a control number assigned by Bobbie. This can be done by first positioning the command marker at the first statement to be filled out. Do this by typing <SP>.name<CR>, where <SP> means the space key and <CR> means the carriage return key. 8a2

1. Then type it> <CR>.....text.....<CR> Which means insert text at the end of the statement. 8a2a

2. Then type <LF>...hit the line feed key...which means print the next statement, and repeat the step above. 8a2b

Where multiple entries are required (as in more than one traveler or more than one desination), complete the first entry, type ↑V<CR>, (that's control V followed by carriage return) and make the second entry...same for third, fourth etc. When completed with all entries for a single data element, finish the insert text command with a <CR>. 8a2b1

Cycle through the above 2 steps until the form is completely filled out. Then update the file by saying u<CR> Link to Bobbie or send her a message using the sndmsg subsystem at TENEX level and tell her you have completed a Proposed Travel Request form and give her the file name you have assigned it. She will notify you when its OK to delete the file. 8a2c

(Serial) number: 8a3

(Name)(s) of Traveler(s): 8a3a

(Symbol): 8a3b

(Date) of Departure: 8a3c

(Number) of days: 8a3d

(Clearance): 8a3e

(Destination): 8a3f

(Purpose) of Trip: 8a3g

(Person)(s) Contacted: 8a3h

(Mode) of Travel: 8a3i

Govt: 8a3i1

Comm: 8a3i2

Priv: 8a3i3

(Job) Order Number: 8a3j

(Directed) by or non-directed: 8a3k

(Cost) estimated 8a3l

(Air) fare: 8a3l1

(Car) rental: 8a3l2

(Per) diem: 8a3l3

(Auto) Personal: 8a3l4

(Total): 8a3l5

(Advance): 8a3l6

(Time) and Date of Meeting: 8a3m

(Special) travel arrangements..instructions to the secretary etc: 8a3n

TRAVEL LOG 8b

Bobbie will create the TRIPLOG file by running a content analyzer pattern against the PROPTRIP file. The pattern is: 8b1

"(Serial)" / "(Name)" / "(Date)" / "(Symbol)" / "(Job)" / "(Air)" / "(Car)" / "(Per)" / "(Auto)" / "(Total)" / "(Advance)"; 8b1a

and will give a file entry that looks like: 8b2

(Serial) number: 8b2a

(Name)(s) of Traveler(s): 8b2a1

(Symbol): 8b2a2

(Date) of Departure: 8b2a3

(Job) Order Number: 8b2a4

(Air) fare: 8b2a4a

(Car) rental: 8b2a4b

(Per) diem: 8b2a4c

(Auto) Personal: 8b2a4d

(Total): 8b2a4e

(Advance): 8b2a4f

TRIP REPORT 8c

Bobbie will create an entry in the traveler's travel file by invoking a second content analyzer pattern that looks like: 8c1

"(Serial)" / "(Name)" / "(Date)" / "(Symbol)" / "(Job)" / "(Number)" / "(Destination)" / "(Purpose)" / "(Person)"; 8c1a

(Serial) number: 8c2

(Name)(s) of Traveler(s): 8c2a

(Symbol): 8c2b

(Date) of Departure: 8c2c

(Number) of days: 8c2d

(Destination): 8c2e

(Purpose) of Trip: 8c2f

(Person)(s) Contacted: 8c2g

(Job) Order Number: 8c2h

---------- 8c2i

(Contract) Number: 8c2j

(Minutes) available?: 8c2k

When?: 8c2k1

Where?: 8c2k2

(Follow) up Requirements?: 8c2l

Date Required: 8c2l1

Responsible agency or individual: 8c2l2

Action Item: 8c2l3

(Summary) of events: 8c2m

The traveler will review the filled in contents above the -----line and fill in the blank portion of the form below the line. 8d

Bobbie will maintain a control file, which will have links to Journaled travel files. It might be arranged sequentially within type of file, or anyway that is convenient for searching. A suggested outline is: 8e

(ptrip) Links to Proposed Travel Requests 8e1

(ltrip) Links to Travel Logs sent to IS 8e2

(rtrip) Links to Trip Reports 8e3

EXPERIMENTAL TRAVEL PACKAGE PROCEDURES FOR ISI

(J30030) 31-JAN-74 13:57; Title: Author(s): Duane L. Stone/DLS;
Distribution: /RADC; Sub-Collections: RADC; Clerk: DLS;
Origin: <STONE>TRAVEL.NLS;21, 31-JAN-74 13:53 DLS ;

DLS 31-JAN-74 14:06 30031

CA Patterns for Travel Package..1st cut

Bobbie...we will get these into a file of your own..Just journaling for safety and file space.

CA Patterns for Travel Package..1st cut

Content Analyzer Pattern for creating entry in TRIPLOG file.. 1

```
"(Serial)" / "(Name)" / "(Date)" / "(Symbol)" / "(Job)" / "(Air)"
/ "(Car)" / "(Per)" / "(Auto)" / "(Total)" / "(Advance)"; 1a
```

Content Analyzer Pattern for creating entry in TRIPREPORT file.. 2

```
"(Serial)" / "(Name)" / "(Date)" / "(Symbol)" / "(Job)" /
"(Number)" / "(Destination)" / "(Purpose)" / "(Person)"; 2a
```

DLS 31-JAN-74 14:06 30031

CA Patterns for Travel Package..1st cut

(J30031) 31-JAN-74 14:06; Title: Author(s): Duane L. Stone/DLS;
Distribution: /RJC; Sub-Collections: RADC; Clerk: DLS;

DLS 31-JAN-74 14:18 30032

Blank Trip Report Form..1st cut

Just clearing out file space

Blank Trip Report Form..1st cut

(Serial) number:	1
(Name)(s) of Traveler(s):	1a
(Symbol):	1b
(Date) of Departure:	1c
(Number) of days:	1d
(Destination):	1e
(Purpose) of Trip:	1f
(Person)(s) Contacted:	1g
(Job) Order Number:	1h
----------	1i
(Contract) Number:	1j
(Minutes) available?:	1k
When?:	1k1
Where?:	1k2
(Follow) up Requirements?:	1l
Date Required:	1l1
Responsible agency or individual:	1l2
Action Item:	1l3
(Summary) of events:	1m

Blank Trip Report Form..1st cut

(J30032) 31-JAN-74 14:18; Title: Author(s): Duane L. Stone/DLS;
Distribution: /RJC; Sub-Collections: RADC; Clerk: DLS;
Origin: <STONE>TRIPREPORT.NLS;2, 31-JAN-74 14:08 DLS ;

DLS 31-JAN-74 14:20 30033

Blank Trip Log file

Just saving file space

Blank Trip Log file

(Serial) number:	1
(Name)(s) of Traveler(s):	1a
(Symbol):	1b
(Date) of Departure:	1c
(Job) Order Number:	1d
(Air) fare:	1d1
(Car) rental:	1d2
(Per) diem:	1d3
(Auto) Personal:	1d4
(Total):	1d5
(Advance):	1d6

Blank Trip Log file

(J30033) 31-JAN-74 14:20; Title: Author(s): Duane L. Stone/DLS;
Distribution: /RJC; Sub-Collections: RADC; Clerk: DLS;
Origin: <STONE>LTRIP.NLS;3, 28-JAN-74 09:04 DLS ;

RADC TIP DIALUP NUMBERS

TIP NUMBERS:	1
4172	1a
4173	1b
4174	1c
4175	1d
4176	1e
4177	1f
4293	1g
4777	1h
2073	1i
2884	1j
3300	1k
3302	1l
3600	1m
3613	1n
3733	1o

RADC TIP DIALUP NUMBERS

(J30034) 1-FEB-74 08:47; Title: Author(s): Thomas F. Lawrence/TFL;
Distribution: /RADC; Sub-Collections: RADC; Clerk: TFL;
Origin: <LAWRENCE>NUM.NLS;2, 31-JAN-74 08:51 TFL ;

MIKE 1-FEB-74 12:29 30035

Opportunity to Trial the Hazletine 2000 : Feb.6 (wed.)

MIKE 1-FEB-74 12:29 30035

Opportunity to Trial the Hazletine 2000 : Feb.6 (wed.)

On Wed. Feb 6. a Mr. Delaney from CAE Electronics will be visting us to demonstrate one of their Hazletine 2000 CRT's. This is the terminal that SRI found slightly preferable to the Delta Data (see journal item at (gjournal,21533,0:wz) wHe will be leaving one of their machines here for Wed. Thurs. Fri. and possibly Monday in order to give us a chace to get acquainted with it on a first had basis. On Wed. am. he wll be giving a brief demo. of some of the terminals capabilities, wich might be interesting from a GEE WHIZ point of view, but probably won't be to relevant to our intended applications. I hope you will be able to take advantage of the opportunity to get hands-on experience wth the machine while it is here. 1

Opportunity to Trial the Hazletine 2000 : Feb.6 (wed.)

(J30035) 1-FEB-74 12:29; Title: Author(s): Michael T. Bedford/MIKE; Distribution: /IMM MIKE LHD PF PIW PAN JHB JCN MEH; Sub-Collections: NIC; Clerk: MIKE;

EJK 1-FEB-74 14:14 30036

RADC MIS

Journaled for archival purposes and distributed for information.

EJK 1-FEB-74 14:14 30036

RADC MIS

IS/2204 1

RADC MIS 2

RADC/ISI ISF 28 Jan 74 3

1. After discussions with Dr. Gabelman and Lt Col Warloe, it was agreed that the following approach would be used in implementing an RADC MIS: 4

a. FEMIS would be used in the initial stages until a data base is implemented on IDS. 4a

b. Additional files, beyond PMS/CMS will be implemented under FEMIS; primary candidates are manpower, personnel, corporate data base, LMCS, private files and mail box. Recommendations as to which files are to be added and when will be made by ISI. 4b

c. An investigation will be made as to the feasibility of collecting and inputing data directly into the data base from terminals using FEMIS, possibly with some modifications to FEMIS. 4c

d. In parallel with the above, ISI will proceed with plans for establishing a full scale MIS based on use of IDS. This does not have to be sold to DO and CA, but the plan, the schedule, and the funds have to be outlined and presented to DO as soon as possible, but no later than 15 Feb 74; FY75 funds will be applied. 4d

e. ISI is responsible for the RADC MIS. ISF is responsible for the initial implementation of FEMIS with PMD/CMS, as well as initiation of the PRC contract for assistance. As soon as all aspects of the initial implementation of FEMIS are completed by ISF, all FEMIS work will be assumed by ISI. ISF will continue to be responsible for running and loading FEMIS. 4e

s/ R. H. Thayer 5

RICHARD H. THAYER, Col, USAF 6

Chief, Info Sciences Division copy to: RADC/DO, /CA 7

RADC MIS

(J30036) 1-FEB-74 14:14; Title: Author(s): Edmund J. Kennedy/EJK;
Distribution: /RADC; Sub-Collections: RADC; Clerk: EJK;

Lab Activity Report - Base Communications Review

Labaratory Activity Report 1

On 17 January 1974, as part of the base communications review, a group of people representing Hq USAF,AFCS,AFSC,ESD and RADC were briefed on various topics. 2

E. J. Kennedy briefed the group on work that has been on-going at RADC for over two years, on automated data processing as it relates to the problems of communications. 2a

Topics included the use of the ARPA net, the on-line system developed at the Stanford Research Institute, and especially the experience of the Information Science Division in using these tools and evaluating them for Air Force applications. 2b

It was pointed out that many of the problems identified in the Mission Analysis for Base Communications and being studied for possible solution in the Study of Automatic Data Processing Requirements are being looked at daily by a small group of people, and that considerable expertise, experience and data are available at RADC. 2c

There was considerable interest expressed in RADC's data collecting capability in the areas of user acceptance of desk-top terminals, and our experience in electronic message distribution and receipt from a terminal. 2d

Lab Activity Report - Base Communications Review

(J30037) 1-FEB-74 14:46; Title: Author(s): Edmund J. Kennedy/EJK;
Distribution: /FJT RJC(For Becky); Sub-Collections: RADC; Clerk: EJK;
Origin: <KENNEDY>LABACT.NLS;1, 1-FEB-74 14:42 EJK ;

DLS 2-FEB-74 09:48 30038

PROPOSED TRAVEL REQUEST

Create a file and call it Travel, Trip, etc. Copy Plex 1 of the file in the above link to the newley created file. Instructions on how to fill out the file are contained in it. When finished, update your travel file and notify Bobbie that its done. Give her the file name. Do not delete the file, since it will be used to prepare your trip report when you return.

PROPOSED TRAVEL REQUEST

Fill out this form by inserting text at the end of each statement containing a :, except for the statement named (Serial), which is a control number assigned by Bobbie. This can be done by first positioning the command marker at the first statement to be filled out. Do this by typing <SP>.name<CR>, where <SP> means the space key and <CR> means the carriage return key. 1

1. Then type it> <CR>.....text.....<CR> Which means insert text at the end of the statement. 1a

2. Then type <LF>...hit the line feed key...which means print the next statement, and repeat the step above. 1b

Where multiple entries are required (as in more than one traveler or more than one desination), complete the first entry, type ↑V<CR>, (that's control V followed by carriage return) and make the second entry...same for third, fourth etc. When completed with all entries for a single data element, finish the insert text command with a <CR>. 1b1

Cycle through the above 2 steps until the form is completely filled out. Then update the file by saying u<CR> Link to Bobbie or send her a message using the sndmsg subsystem at TENEX level and tell her you have completed a Proposed Travel Request form and give her the file name you have assigned it. She will notify you when its OK to delete the file. 1c

(Serial) number: 2

(Name)(s) of Traveler(s): 2a

(Symbol): 2b

(Date) of Departure: 2c

(Number) of days: 2d

(Clearance): 2e

(Destination): 2f

(Purpose) of Trip: 2g

(Person)(s) Contacted: 2h

(Mode) of Travel: 2i

Govt: 2i1

PROPOSED TRAVEL REQUEST

Comm:	2i2
Priv:	2i3
(Job) Order Number:	2j
(Directed) by or non-directed:	2k
(Cost) estimated	2l
(Air) fare:	2l1
(Car) rental:	2l2
(Per) diem:	2l3
(Auto) Personal:	2l4
(Total):	2l5
(Advance):	2l6
(Time) and Date of Meeting:	2m
(Special) travel arrangements..instructions to the secretary, etc:	2n

DLS 2-FEB-74 09:48 30038

PROPOSED TRAVEL REQUEST

(J30038) 2-FEB-74 09:48; Title: Author(s): Duane L. Stone/DLS;
Distribution: /RJC FJT RADC; Sub-Collections: RADC; Clerk: DLS;

DLS 2-FEB-74 09:50 30039

EXPERIMENTAL TRAVEL PACKAGE PROCEDURES FOR ISI

For those interested in more detail about the travel package, read this document and/or see me.

EXPERIMENTAL TRAVEL PACKAGE PROCEDURES FOR ISI

This document contains a set of procedures (people and NLS) for handling the travel documentation and management information requirements of the ISI Branch. It is planned to set up these procedures, test them and with the necessary modifications to implement them as SOP's for the Branch. 1

It does not consider the interface with IDS at this time, however, this should be a straight forward process when the IDS coordinator has been appointed. I view the role of NLS as one of providing for accurate and timley data collection for input to IDS. As such, I consider NLS to be data collection subsystem for the larger IS/ISI MIS. 1a

The travel system will serve several functions 2

document proposed travel, estimated funding and trip reports 2a

allow for approval of proposed travel in a timely manner 2b

establish roles and responsibilities of ISI personnel with regard to travel documentation, approval, control and filing. 2c

provide for orderly interface to IDS when necessary. 2d

The above should be accomplished with minimum burden on the traveler. It should be possible to supplement the searching provided by IDS, with existing tools in NLS. 3

Four types of people are recognized in this document: the traveler, the controler, the approver and the typist. 4

The traveler is anyone in the Branch who wishes to travel or who has just returned from travel. 4a

The controller is a person in the Branch Admin office (Bobbie for the time being), who has responsibility for making sure the documents submitted to her are in proper format and contain the correct information. In addition she maintains all the necessary files in the system, and assures that NLS and ISI procedures are being followed. 4b

The approver is Frank Tomaini or his designated substitute in his absence. 4c

The typist may be any NLS user, an engineer or one of the secretaries. 4d

FLOW 5

The overall flow will be: 5a

The traveler will submit his Proposed Travel Request, either using NLS or filled out by hand to Bobbie. If it is not on the system, Bobbie will type it in herself, or get one of the secretaries to do it. 5a1

Bobbie will verify the contents of the form, checking estimates with Tom if she doesn't know. 5a2

She will print it out on the TYCCM, and give it to Frank for approval. 5a3

If approved she will give the printout to a secretary for preperation of the travel orders. 5a4

She will create the travel log file for the Div from the Proposed Travel Request using NLS commands 5a5

Once a week she will send the Travel Log file to Aggie, and/or print it out and give it to Div. 5a5a

She will create standard heading material for the engineer, and place it in his travel file. 5a6

When the engineer comes back, he will fill out the Summary portion of the trip report, and notify Bobbie when comleted. 5a7

The Voucher will be prepared by a secretary, and given to Bobbie 5a8

She will attach the trip report and forward up the chain of command. 5a9

She will journal the trip report and send copies to those indicated by the engineer 5a10

If the trip report is to go outside the Div, she will give it to secretary for retyping on an offical AF form. 5a10a

Bobbie will update the control file with appropriate entries 5a11

FILES 6

There will be 4 files maintained by Bobbie, in addition to a Journal file containing a blank Proposed Travel Request form. Users of NLS will have a branch in their initials file, called (forms), with links to Journaled files of blank forms. The Journal forms will contain instructions on how to fill out the form and what to do with it when it is completed. Bobbie will keep 4 working files (see appendix 1): 6a

PROPTRIP 6a1

Contains completed Proposed Travel Request forms 6a1a

TRIPLOG 6a2

Contains the equivalent of the the Travel Log she now prepares weekly for the Div. on estimated travel expenses. 6a2a

TRIPREPORT 6a3

Contains completed Trip Reports from travelers 6a3a

TRIPCONTROL 6a4

Contains a Control file with links to Journaled files that fall out of the whole process. 6a4a

PROCEDURES 7

For the traveler to follow: 7a

Whenever you are planning a trip, you must first fill out a Proposed Travel Request form and submit it to Bobbie. This form is used for a number of purposes, to: 7a1

obtain approval from Frank for the travel. 7a1a

to provide instructions to the secretary for commmpletion of the orders in the event that the travel request is approved. 7a1b

collect estimated travel expenditures for submission to Jack G. 7a1c

All people in the ISIM section will fill out the form on-line using NLS. A link to the blank form with instructions on how to fill it out will be placed in your initials file under a branch named (forms). 7a2

Create a new file, call it travel, trip, etc. Copy the contents of the Proposed Travel Request file into your travel file and print it out so you can read the instructions. After filling out the form, link to Bobbie, or send a message, and notify her of the file. This same file will be used to prepare your Trip Report, so DON'T DELETE IT. 7a2a

When you return from a trip, you must complete a Trip Report before the travel voucher will be processed (an internal IS rule which is probably unconstitutional). Load your travel file and you will find a partially filled out trip report form.

Review the existing data and correct it if required. Fill out the remainder of the report and notify Bobbie that it is complete. She will print it out and attach it to your voucher when it comes up from the secretary. When you receive a Journal reference citing your trip report, you may delete the trip file in your directory. 7a2b

The people in the ISIC section will be provided with blank Proposed Travel Request forms, which they can fill out by hand. It is not necessary to have them typed. They can hand them in to their secretary or Bobbie. When they return from the trip, they will be given a partially completed Trip Report, which they should review, complete and return to Carm or Bobbie. 7a3

For the Branch controller to follow: 7b

After receiving Proposed Travel Request form from anyone, assign a serial number and check to see if the entries are OK..check with Tom to see if the cost estimates are reasonable, if you don't know yourself. 7b1

Make any changes in the form necessary and print it out on the TYCOM for Frank to see. After he verifys it, give it to the appropriate Section Secretary so she can type out the orders. 7b2

Submit the branch starting with the serial number to the journal, with a distribution to the traveler(s) who initiated it. 7b3

We should think about titles for the journal submissions, so that they remain consistent and are useful for retrieval...maybe the serial numbers would be sufficient. 7b3a

Compile the content analyzer pattern in branch 1 of your ptrip file. 7b4

Do this by saying Goto Programs Content analyzer No .prog<CR> 7b4a

Then assimilate the filtered contents of the file into the Ltrip file by typing: 7b5

```
Execute Assimilate Branch to (,ltrip,)<CR>
from .serial<CR>
L: <CR>
V: i<CR>
```
7b5a

You will be in the TRIPLOG file now, so say Update<CR> and then go back to the PROPTRIP file by typing <SP>&<CR>....this means go back to the file I just came from. Delete branch 2 or the .serial branch in the PROPTRIP file and Update. 7b6

Ihere will be instances where a Proposed Travel Request will be rejected or modified at Division level. You will be notified by the Division Controller. If its aggie, hopefully by way of the system. Make the appropriate changes in the TRIPLOG file. 7b6a

At the end of the week load the TRIPLOG file, Print Branch <CR> mwGy <CR> on the TYCCM and give it to Jack. Maybe later Aggie will get it herself. Periodically, maybe monthly, you should submit the file to the journal, with a distribution to Aggie. 7b6b

As links to Journaled PROPTRIP, TRIPLOG and TRIPREPORT files appear in your directory, you will want to organize them in a manner convenient for searching. You can move them to a TRIPCONTROL file (Travel Control file) under appropriately named branches. The organization depends on what questions Frank may want to ask of the file, and on whats convenient for you. 7b7

For Division Controller to follow: 7c

The Division Controller, Aggie I think, will have several responsibilities. She must notify the Branch controller when a trip has been canceled or modified. She will create a file of a similar format as the TRIPLOG file, which contains the actual travel expenses. She will create a file from this, which will be used by the IDS input/update people. The details of thsi will be worked out after further consulation with Div and IDS people. 7c1

APPENDIX 1 8

PROPOSED TRAVEL REQUEST 8a

The key file in the whole travel package is this form. The proposed Travel Request form. It will be Journaled and Links to it inserted in the (forms) branch of each users initials file. If there are changes in the form the link will be replaced by the PSO personnel, so the user will not have to be bothered or confused as to which version is current. The file will also contain directions on how to fill out the form. The file will look something like: 8a1

Fill out this form by inserting text at the end of each statement containing a :, except for the statement named (Serial), which is a control number assigned by Bobbie. This can be done by first positioning the command marker at the first statement to be filled out. Do this by typing <SP>.name<CR>, where <SP> means the space key and <CR> means the carriage return key. 8a2

1. Then type it> <CR>.....text.....<CR> Which means insert text at the end of the statement. 8a2a

2. Then type <LF>...hit the line feed key...which means print the next statement, and repeat the step above. 8a2b

Where multiple entries are required (as in more than one traveler or more than one desination), complete the first entry, type ↑V<CR>, (that's control V followed by carriage return) and make the second entry...same for third, fourth etc. When completed with all entries for a single data element, finish the insert text command with a <CR>. 8a2b1

Cycle through the above 2 steps until the form is completely filled out. Then update the file by saying u<CR> Link to Bobbie or send her a message using the sndmsg subsystem at TENEX level and tell her you have completed a Proposed Travel Request form and give her the file name you have assigned it. She will notify you when its OK to delete the file. 8a2c

(Serial) number: 8a3

(Name)(s) of Traveler(s): 8a3a

(Symbol): 8a3b

(Date) of Departure: 8a3c

(Number) of days: 8a3d

(Clearance): 8a3e

(Destination): 8a3f

(Purpose) of Trip: 8a3g

(Person)(s) Contacted: 8a3h

(Mode) of Travel: 8a3i

Govt: 8a3i1

Comm: 8a3i2

Priv: 8a3i3

(Job) Order Number: 8a3j

(Directed) by or non-directed: 8a3k

(Cost) estimated 8a3l

(Air) fare: 8a3l1

(Car) rental: 8a3l2

(Per) diem: 8a3l3

(Auto) Personal: 8a3l4

(Total): 8a3l5

(Advance): 8a3l6

(Time) and Date of Meeting: 8a3m

(Special) travel arrangements..instructions to the secretary, etc: 8a3n

TRAVEL LOG 8b

Bobbie will create the TRIPLOG file by running a content analyzer pattern against the PROPTRIP file. The pattern is: 8b1

```
"(Serial)" / "(Name)" / "(Date)" / "(Symbol)" / "(Job)" /
"(Air)" / "(Car)" / "(Per)" / "(Auto)" / "(Total)" /
"(Advance)";
```
8b1a

and will give a file entry that looks like: 8b2

(Serial) number: 8b2a

(Name)(s) of Traveler(s): 8b2a1

(Symbol): 8b2a2

(Date) of Departure: 8b2a3

(Job) Order Number: 8b2a4

(Air) fare: 8b2a4a

(Car) rental: 8b2a4b

(Per) diem: 8b2a4c

(Auto) Personal: 8b2a4d

(Total): 8b2a4e

(Advance): 8b2a4f

TRIP REPORT 8c

Bobbie will create an entry in the traveler's travel file by invoking a second content analyzer pattern that looks like: 8c1

"(Serial)" / "(Name)" / "(Date)" / "(Symbol)" / "(Job)" / "(Number)" / "(Destination)" / "(Purpose)" / "(Person)"; 8c1a

(Serial) number: 8c2

(Name)(s) of Traveler(s): 8c2a

(Symbol): 8c2b

(Date) of Departure: 8c2c

(Number) of days: 8c2d

(Destination): 8c2e

(Purpose) of Trip: 8c2f

(Person)(s) Contacted: 8c2g

(Job) Order Number: 8c2h

---------- 8c2i

(Contract) Number: 8c2j

(Minutes) available?: 8c2k

When?: 8c2k1

Where?: 8c2k2

(Follow) up Requirements?: 8c2l

Date Required: 8c2l1

Responsible agency or individual: 8c2l2

Action Item: 8c2l3

(Summary) of events: 8c2m

The traveler will review the filled in contents above the -----line and fill in the blank portion of the form below the line. 8d

Bobbie will maintain a control file, which will have links to Journaled travel files. It might be arranged sequentially within type of file, or anyway that is convenient for searching. A suggested outline is: 8e

(ptrip) Links to Proposed Travel Requests 8e1

(ltrip) Links to Travel Logs sent to IS 8e2

(rtrip) Links to Trip Reports 8e3

DLS 2-FEB-74 11:12 30040

AUTOMATED REPRODUCTION COMPOSITION SYSTEM (ARC)

One my many functions to review Independent Research & Development programs within industry. This one came across my desk about a month ago. Notice the overlap in both name and system capability in the COM area. I intend to call the principle investigator, and see if he would be interested in learning more about your interface with DDSI. As you can see from the narrative, Sperry is backing into the text editing area. They might be potential customers for a slot in the Utility. At least if I were them, I would be interested in exploring the capabilities of NLS and COM.

DLS 2-FEB-74 11:12 30040

AUTOMATED REPRODUCTION COMPOSITION SYSTEM (ARC)

Project No. 1

74-SM03 1a

Category 2

Development 2a

Start Date 3

January 1973 3a

Project Title 4

AUTOMATED REPRODUCTION COMPOSITION SYSTEM (ARC) 4a

Project Contact 5

J. N. Caswell 5a

Phone No. 6

(516)574-2267 6a

Current year 7

None 7a

Prior Year 8

3D20102 continuing project 8a

Subject category field & Groups 9

09.02 9a

Lst Compl date 10

3/74 10a

Est Man Yrs 11

5.7 11a

AFS Words 12

Technical manual computerized composition and typesetting, phototypesetting, photocomposition, electronic printing system, automated typesetting 12a

AUTOMATED REPRODUCTION COMPOSITION SYSTEM (ARC)

Principal investigator 13

J. N. Caswell 13a

Associate Investigators 14

D. Gorman, J. Maistro, R. Rykarr, G. Flaster, others 14a

Project Funding Data 15

Current CFT 15a

Labor 15a1

$155,000 15a1a

Material 15a2

0 15a2a

Other 15a3

$15,000 15a3a

Total 15a4

$170,000 15a4a

Prior CFY 15b

Labor 15c

$ 37,000 15c1

Material 15d

0 15d1

Other 15e

$ 1,000 15e1

Total 15f

$ 38,000 15f1

PROBLEM 16

Sperry presently has a system for the computerized composition and

phototypesetting of military system and equipment technical manuals. Such manuals are a deliverable item on most DOD equipment and system contracts awarded to Sperry and must be prepared to military specifications. The system has been used to a only limited extent because of deficiencies. It requires development to be used in the production of technical manuals. Development is also required to establish a system that will provide a total production life cycle cost (initial technical manual preparation plus subsequent changes) less than that of conventional methods using manual typewriters. 16a

The system presently consists of Magnetic Tape Selectric Typewriters (MTST), a Digi-Data Converter, a UNIVAC 1108 computer, a Photon 713-10 Phototypesetter, and a computer program for composition of technical manual page layout and conversion of the layout to the commands necessary to drive the phototypesetter. Page composition includes multicolumn test (left and right justified and hyphenated), tables and space allocation for illustrations. 16b

Problems with the present computer program cause the following specific page composition difficulties: 16c

- Partial single lines standing alone at the bottom of text columns 16c1
- Missing test lines 16c2
- Instances where coluumns of text do not completely fill the area available to the bottom margin of the page 16c3
- Column unbalance on chapter ending pages when page is partially filled with text 16c4
- Computer run aborts when a table is longer than one page. 16c5

The program also needs the following additional computer automated features in order to have a viable system from a production standpoint: 16d

- Index generation of flagged text 16d1
- Automatic MIL Spec paragraph numbering 16d2
- Automatic change bar printout of modified lines of a change page 16d3
- Automatic printout of table title and table column headings

at the top of the following page when a table continues from one page to a following page 16d4

.Automatic retrieval of flagged information 16d5

Using the MTST for editing and changes is a problem. It is awkward to use, time consuming, and expensive. 16e

OBJECTIVE 17

The over-all objective is to develop a computerized composition and phototypesetting system which can be used efficiently for the initial generation, editing, and retreival of technical manuals prepared to MIL Specifications for Polaris/Poseidon/Trident and other DOD projects. To do this the problems of the present system outlined in the PROBLEM section must be solved. 17a

To meet the over-all objective, it is necessary to: 17b

1. Develop a system whose production costs (of typing, proofing, and final reproduction copy) for technical manual initial release and changes is less than the production costs of conventional manual typewriter methods. 17c

2. Eradicate present page composition problems. 17d

3. Develop the additional computer automated features (outlined in the PROBLEM section). 17e

4. Develop a more efficient editing/change capaility using a computer terminal. 17f

5. Consider a computer for initial typing and input, and integrate with the system if production cost or time is reduced. 17g

6. Develop the system in a user-oriented form. 17h

7. Develop a system, including the computer program, which will allow modular expansion subsequent to this development. 17i

8. Develop the system for operation with a Univac 1108 Exec VIII computer. 17j

APPROACH 18

The ARC Development Plan shows the basic technical activities of the project and the time frame of each of the activities. During the initial phase, the development necessary to solve the present page composition difficulties will be performed. Since this phase

was initiated in the prior company fiscal year(CFY-73), this is a continuing project in the current company fiscal year (CFY-74). 18a

Initial Phase 18b

The computer programmers will first review the present program design and then develop the program changes to solve our present problems. A key aspect of the design philosophy is the use of logical program modules operating under a master program control. For the changes, either the present modules will be modified, or new modules operating under the same master control will be provided. The changes and additions developed will be incorporated without impairing the efficiency (computer running time) of the program. A single-pass system will be maintained and the program tables and fields will be expanded to meet the new requirements and still keep the tables and fields open-ended. Uniform internal nomenclature will be used in the computer program. 18c

The program changes will be generated, tested, and debugged by the programmers using a Univac 1108 and Hazeltime Cathode Ray Tube Terminal. When required, they will also have available Magnetic Tape Selectric Typewriters (MTST) and a Photon 713-10. All this equipment is located in the Sperry plant. The computer programmers will also update the User Manual as a result of changes made to the computer program. 18d

In parallel with the above activities, the over-all functional specifications of the computer program will be updated in conjunction with Sperry's style guide. The style guide defines the technical manual format to be used. Tradeoffs between the style guide and what can be reasonably and economically achieved with the system will be made. The computer program development activity and style guide tradeoffs will lead to the final functional specification. 18e

When the tasks discussed above are completed, a test specification for a certification test (CERT) will be written by the user. It will feature the type of technical manual composition he requires and contain suggestions by the computer programmer personnel. Their suggestions will ensure that all facets of the computer program design are also exercised to the maximum extent possible during the certification test. 18f

With the test specification available, the user will perform the Certification Test. Any problems which arise will be debugged by the programmers and subsequent certification test performed. 18g

After successful completion of the certification test, the

operating manual for our Univac 1108 computer facility operators must be developed. This will be followed by an Operating Test conducted by the facility operators to ensure that they can operate and support the system in production. 18h

Edit/Input Terminal 18i

This activity will develop the system for efficient editing/change of technical manuals. The possibility of using some form of computer terminal for input in place of the MTST will also be considered. 18j

As a prelude to this activity, and during, our present Hazeltine Terminal will be used by our publications personnel. During the Initial Phase, these personnel will start using the Hazeltine terminal. Experience gained in this manner will contribute to the study portion of the edit/input terminal activity. 18k

A study of available terminals and the Univac 1108 Editing program will be made to establish what combination of terminal type and modification to the Univac 1108 program can best provide the operation required by the publication's user. Simple terminals and terminals incorporating minicomputers and their own memory banks will be considered. 18l

On-line and off-line terminal operation will be explored. A cursor-controlled type of editing terminal is visualized with the capability of displaying handbook text with and without the composition format commands required by the computer composition and typeseting program. Deletions, additions, and movement of text should be accompanied by the opening up, or closing in of the text surrounding the modification. 18m

The computer programming task involves the development of the necessary programs for the terminal, the terminal/Univac 1108 interface, and the Univac 1108 editor modification for the edit/input terminal system. The technical approach to the programming will be essentially that desscribed above for the Initial Phase adapted for this application. 18n

Subsequent to the study, the selected terminal will be procured or leased and installed in the Sperry plant. During this time, the user manual will be prepared incorporating the terminal and associated computer program capabilities. The publications user will again write the test specification and conduct the certification test with the assistance of the computer programmers as described above for the initial phase. 18o

Additional Features. 18p

The additional computer-automated features listed in the PROBLEM section above will be developed during this activity. These features will be additions to the present computer program. 18q

The approach to the development will be the same as that outlined for the Initial Phase computer programming. The features will be developed in series rather than in parallel, from a time standpoint. 18r

As before, the test specification and certification test will be accomplished by the publication's user to ensure that he is satisfied with the system. This will be performed on a progressive basis as each of the features have the computer programming completed. Thus, when feasible, each feature will be incorporated in the production of technical manuals as it is certified, and operating manual and operating test tasks can be accomplished prior to the end of the additional features activity. 18s

The certification testing will be done using the entire system incorporating MTSTs or CRT terminals as appropriate, the Univac 1108 computer, and the Photon 713-10 photo-typesetter. 18t

PROGRESS 19

The time period for which progress is being reported is from the project authorization date in January 1973 through the first week of February 1973. No activities have been completed yet because of the recent authorization date. 19a

Computer programming personnel have been assigned to the project and review of the computer program is in process. Programming personnel have also read the existing User Manual and reviewed the tests which were run on the system exposing the page composition problems. 19b

The Style Guide modification and functional specification update have been initiated and partially completed by the publications engineer assigned to the program. 19c

AUTOMATED REPRODUCTION COMPOSITION SYSTEM (ARC)

(J30040) 2-FEB-74 11:12; Title: Author(s): Duane L. Stone/DLS;
Distribution: /NDM JCN RWW DCE EJK JLM; Sub-Collections: RADC; Clerk:
DLS;
Origin: <STONE>IR&D.NLS;1, 2-FEB-74 10:46 DLS ;

tickler for month of January

(jt1) 1 January - Tuesday 1

Happy New Year 1a

(jw1) 2 January - Wednesday 2

This is a REMINDER of Documentation Management Staff Visit from 2 - 25 Jan 74 - Files Inspection 2a

News Brief items due into Becky Today. 2b

Bobbie: Personnel Strength Rpt. due. - Completed 2c

(jth1) 3 January - Thursday 3

Laboratory Activity Reports due today: Bucciero must have them by 1000, ISM must have them by 1100, and DOT must have them by 1600. 3a

0830 hrs. Branch Chief's Meeting 3b

Advise IS if aware of some unique feature/program/project which could be adversely affected by our transition to the H6180 system. 3c

(jf1) 4 January - Friday 4

Timecards due today 4a

Bobbie: Travel figures due by noon. 4b

(jm2) 7 January - Monday 5

0830 hrs. Branch Chief's Meeting 5a

(jt2) 8 January - Tuesday 6

1152's due for Resident Graduate Center Spring Semester due in ISM 6a

10:00 hrs. PRC Meeting - F. Tomaini 6b

(jw2) 9 January - Wednesday 7

ISF Confessions 0830 hrs. 7a

(jth2) 10 January - Thursday 8

Laboratory Activity Reports due today: Bucciero must have them by 1000, ISM must have them by 1100, and DOT must have them by 1600. 8a

0830 hrs. Branch Chief's Meeting 8b

tickler for month of January

11:00 hrs. Meeting with Col Hepfer on SAB Visit - F. Tomaini 8c

Due Date - ISIM/R. Panara - Deviations between Forecasts and Actual - Completed 8d

(jf2) 11 January - Friday 9

Due Date - Tom B. - Forward a projection of remaining FY-74 travel to DOKP in regards to memo dtd. 20 Dec 73 - Subj: FY-74 indirect travel allocations - Completed 9a

Bobbie: Travel figures due by noon. 9b

Due Date - ISIS/ISIM - FY-74/75 Support - ISIS reply is Negative - Completed 9c

Red Cross Bloodmobile Program Due Bldg. 14 - Scheduled Visit 18 Jan 9d

(jm3) 14 January - Monday 10

Al Barnum on TDY all week 10a

0830 hrs. Branch Chief's Meeting 10b

Frank Tomaini - Acting Division Chief 10c

1152s due for Spring Semester for Utica College 10d

Remind Tom B. about Report of Scheduled Contract Completion 10e

(jt3) 15 January - Tuesday 11

(jw3) 16 January - Wednesday 12

R & T Selection of the Month is due in ISI. 12a

Due Date for Tom - Written reply to Inspection due to Capt White/ISC 12b

(jth3) 17 January - Thursday 13

Frank Tomaini - Acting Division Chief 13a

0830 hrs. Branch Chief's Meeting 13b

Laboratory Activity Reports due today: Bucciero must have them by 1000, ISM must have them by 1100, and DOT must have them by 1600. 13c

tickler for month of January

Due Date - ISI/F. Tomaini - Exchange of Computer Science Info 13d

(jr3) 18 January - Friday 14

0830 hrs. Commander's Staff Meeting - F. Tomaini 14a

1000 hrs. Tech Dir Meeting (SAMSO Tech Needs) - C-102 - F. Tomaini 14b

Timecards due today 14c

R & T Selection of the Month is due in ISM. 14d

Bobbie: Travel figures due by noon. 14e

Remind Tom to check with Jack Giordano in regards to getting $600 for Tycom Terminal Modifications and $500 for Contract Maintenance for the Execuports. 14f

Due Date - ISIS - Review of SF 135 - Completed 14g

(jm4) 21 January - Monday 15

0830 hrs. Branch Chief's Meeting 15a

Due Date for Tom - Mandatory Review of Security Classification Guidance 15b

Due Date ISIM/E.Kennedy - Review of Conceptual Systems - Inputs must be in RADC/XP by 21 Jan - Completed 15c

Remind Tom B. about Unliquidated Obligation Analysis 15d

Due Date - ISIS/ISIM - Project Engineers Bimonthly Review of Tech Completions - Completed 15e

IR Division PAR Briefing - 0830 hrs. Bldg. 240, Conference Room A - Topics include: "Integrated Telemetry Analysis Facility Study" - W. Hartnett; "Support to AFAL" - K. Butters; "Center Computer Base Studies" - 74-C-0016 - P. Langendorf 15f

(jt4) 22 January - Tuesday 16

Due Date - ISI/TOM Bucciero - Reply to RADC/SE Memo in regards to Pedastal Fans - Completed 16a

Due Date - ISIS/ISIM - Report of Scheduled Contract Completions...ISIS completed - Need ISIM 16b

(jw4) 23 January - Wednesday 17

tickler for month of January

(jth4) 24 January - Thursday 18

Laboratory Activity Reports due today: Bucciero must have them by 1000, ISM must have them by 1100, and DOT must have them by 1600. 18a

0830 hrs. Branch Chief's Meeting 18b

(jf4) 25 January - Friday 19

Bobbie: Travel figures due by noon. 19a

ALL RECORD CLERKS - AF Form 166, "Annual Report of Documentation Holdings and Disposition" are due in ISM NLT 25 Jan - Completed 19b

Due Date - Tom - Written inspection report of findings and proposed corrective action to be submitted to Division Office - Completed 19c

Farewell Reception for Col Hepfer - Officer's Club - 27 Jan - 1600 - 1800 hrs. - See Division Rep for tickets ($2.25) 19d

(jm5) 28 January - Monday 20

0830 hrs. Branch Chief's Meeting 20a

Due Date - ISIS/ISIM - Excess Prperty List - Completed 20b

IR Division PAR Briefing - 0830 hrs. Bldg. 240, Conference Room A - Topics include; "Project 2106" - J. Diello; "Complex Graphics Composer" - Lt. Klotz; "Plume Structure" - D. Dylis 20c

(jt5) 29 January - Tuesday 21

Collect topic write-ups for ISI Confessions by noon. 21a

(jw5) 30 January - Wednesday 22

ISI Confessions - 0830 hrs. 22a

(jth5) 31 January - Thursday 23

Laboratory Activity Reports due today: Bucciero must have them by 1000, ISM must have them by 1100, and DOT must have them by 1600. 23a

0830 hrs. Branch Chief's Meeting 23b

Officers Commander's Call - 0900 - 1000 hrs. - bldg. 106 - Auditorium 23c

tickler for month of January

Form 2's (employee time expenditures) are due today. 23d

Form 6's (projected manpower) are due today. 23e

Due Date - ISIM/E. Kennedy - Evaluation of USAF ROC 17-73 - Project ADMIN (AFR 57-1) 23f

(ffi) 1 February - Friday 24

action item for Col Thayer - Review of ISIN Mission, its R&D Program and any expected applications of MIS technology to users. 24a

Action Item for Col Thayer - Review Use of DRIPS for Software Demonstration - The use of DRIPS should provide a window into software systems. Request a proposal to IS (in coordination with ISC and ISF) on how this can be done. 24b

Timecards due today 24c

News Brief items due into Becky Today. 24d

Bobbie: Travel figures due by noon. 24e

Bobbie: Personnel Strength Rpt. due. 24f

General Alder this month - Re: ULO (Tom) 24g

Due Date - ISIM/ISIS - HIS 6180 Update of IS Computer Facility - Completed 24h

RJC 4-FEB-74 06:22 30041

tickler for month of January

(J30041) 4-FEB-74 06:22; Title: Author(s): Roberta J. Carrier/RJC; Distribution: /FJT; Sub-Collections: NIC; Clerk: RJC;

summary of Communications Expectations Conference at Hotel Bonaventure

The following represents my first-hand, of-the-cuff impressions of the "Communications - Expectations" Conference held at the Hotel Bonaventure in Montreal on January 31 - February 1, 1974. 1

Tne conference was sponsored by three industrial associations: 1a

Can'n. Cable Television Assoc. 1a1

Can'n. Telecommunications Carriers Assoc. 1a2

Can'n. Assoc. of Broadcasters 1a3

Tne program for the conference revolved around these five topics, with each topic receiving approximately 90 minutes of the conference time followed by smaller working group discussions of approximately one hour duration. 1b

User and Home 1b1

User and Community 1b2

User and Region 1b3

User and the Nation 1b4

User and the Universe ( ) 1b5

I have outlined below some of the general impressions that I received from the conference. 1c

The conference was significant because it represented one of the few times that the sponsoring groups have been able to get together to discuss anything. 1c1

The conference was the first opportunity that the groups had a chance to sound-off in front of the other groups, and the proceedings (formal and informal) took on the air of an industry conference rather than a conference of all the interested parties in the game of communications futures. 1c2

While the conference was represented as being future-oriented, it dealt with some very everyday topics: 1c3

What's wrong wth CBC programming today? 1c3a

Why is current local origination programming so bad ? 1c3b

summary of Communications Expectations Conference at Hotel Bonaventure

What effect does viewing repeated acts of violence have on young television viewers ? 1c3c

The conference was presented as a meeting place for representatives from the different sponsoring organizations, but many of the oranizers apparently thought that they were offering much more. There was a feeling that they were presenting a really open forum for all types of users of communications technology and services. This was just not the case. 1c4

The discussions, presentations, and workshops were dominated by traditional, middle-class values. This would hardly rate any significant notice if it weren't for the fact that the representatives were extending their values and perceptions to the larger world of prospective users of some of their equipment. (1c5

Incidentally, while one would expect the conference to have a very definite hardware/technology orientation, this was not the case; if anything, the accent was on the media overwhich the message might be transmitted, and to a slight extent, on the message itself. The concept of different communications services never did evolve as an identifiable issue.) 1c5a

There were a few token representatives from the outside world (a farming family from Ontario, communicatons students from Loyola Univerisity, a labour union official from Newfoundland), and the idea of having them interact with the industry representatives was a good one, but it never got off the ground. The structure was too formal, with little opportunity to follow-up interesting areas of discussion. 1c6

At the conclusion of the conference, the floor was opened to anyone wo had comments on the proceedings or organization of the conference. Several people were critical of the operation for a number of different reasons. 1c7

Apparently no expense was spared in setting up the conference. The registration fee of $100 was felt to be far too expensive for many groups who would have liked to have attended. (The organizers responded that it was not until too late that they realized this had been a factor in many invited groups not attending. There had always been a plan to subsidize the cost of the conference for those groups, apparently.) 1c7a

summary of Communications Expectations Conference at Hotel Bonaventure

The setting of the Hotel Bonaventure was such that many groups from lower income areas, or from different cultural backgrounds would have been discouraged from attending. 1c7b

MIKE 4-FEB-74 10:06 30042

summary of Communications Expectations Conference at Hotel Bonaventure

(J30042) 4-FEB-74 10:06; Title: Author(s): Michael T. Bedford/MIKE; Distribution: /LHD MIKE; Sub-Collections: NIC; Clerk: MIKE;