Network Working Group Request for Comment: 4 Category: Informational

Network Timetable

- 1 (n10) network checkout
- 2 Installation of communcation gear 8/1/69

2a $\mbox{From AT&T}$ and/or BBN need dimensional, power and cabling specifications

2b Need to establish SRI desired alternate locations so as to determine maximum telco cable lengths

 $2 \ensuremath{\mathsf{c}}$ Need to establish location and drops on voice coordination circuits

2d Need circuit information on voice drops for tie to intercom system

- 2e Need to order and install a.c. power (coordinate with 4b)
- 2f See 16
- 3 Design and construct host-Imp interface 9/1/69
 - 3a Need specifications from BBN
 - 3b Develop trial design
 - 3c Review with system programmers
 - 3d Establish final design
 - 3e Build and design hardware
 - 3f Debug trial software with hardware loop test

4 Imp installation 9/15/69

- 4a from BBN get dimensional, power and cabling specifications
- 4b SRI orders and installs a.c. power (coordinate with 2e)

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- 5 Debug host-Imp interface 10/1/69
 - 5a Get debug specifiations and procedures from BBN
 - 5b Write programs to debug with BBN
 - 5b1 Transfers of test messages
 - 5b2 Test procedures for crash and recovery
 - 5b3 Check message fill and stripping procedures
 - 5c Try own transfer tests
 - 5c1 Verify transfers to Imp
 - 5c2 Verify transfers from Imp
 - 5c3 Verify transfers looped with Imp
 - 5d Work out Imp reload and restart procedures
- 6 Test messages between UCLA-SRI 10/15/69
 - 6a Network configuration

SRI

- 6b Agree with UCLA on nature of test messages
 - 6b1 Formats
 - 6b2 Sequences
 - 6b3 Checks
 - 6b4 Test procedures
 - 6b5 Fault reporting

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- 6c Test integrity of messages
- 6d Test sequence of delivery
- 6e Measure delays
- 6f Loop with UCLA
- 6g System response to invalid and abnormal conditions
- 6h Lose and restore facilities
 - 6h1 Communication link
 - 6h2 Imps
 - 6h3 Hosts
- 6i Develop net trouble reporting scheme
- 7 Test messages between UCSB-SRI 11/15/69
 - 7a Network configuration



- 7b All of 6
- 7c Load network for alternate routing to be effective
- 7d Develop voice coordination scheme
 - 7d1 Three way conference
 - 7d2 Design and build conference gear
 - 7d3 Deliver conference gear to UCLA and UCSB
- 7e Route messages around ring

7el Via Imps

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7e2 Via hosts
7e3 Six tests
7e3a UCLA-I, UCSB-I
7e3b UCLA-H, UCSB-I
7e3c UCSB-I, UCLA-I
7e3c UCSB-I, UCLA-I
7e3e UCSB-H, UCLA-I
7e3f UCSB-H, UCLA-H
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- 8 Test messges between UTAH-SRI 12/15/69
 - 8a Network configuration



- 8b Selected group of previous test
 - 8b1 All of 6
 - 8b2 7b
- 8c Expand voice coordination scheme

8c1 UTAH has access to UCLA and UCSB via SRI

8c2 with BBN and ARPA

9 Run simple TTY systems

9a Single user access

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9al On a serving host 9ala A to B 9a2 From a using host 9a2a A to B 9b Multiple user access 9b1 On a serving host 9bla A,C to B 9b2 From a using host 9b2a A,A to B 9b3 Various combinations 9c Login, logout, in and out of subsystems 9d Handling of error messages, crashes, recoveries 9e Establish message formats 9f Establish protocols 9g File storage and retrieval 9h Need user's guides for each site 9i Need to establish usage schedules 9j Need to set user names 9k Design and build comm exec or its equivalent 10 Run simple typewriter systems 10a Same as 9c - 9g 10b How define when in half or full duplex mode 10c How to set "break" characters

11 Run arbitrary terminals without local feedback

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- 12 Run arbitrary terminals
- 13 Move files
- 14 Develop debugging techniques
 - 14a Fault detection
 - 14a1 Conformance to manual
 - 14a2 "Reasonableness" of result
 - 14a3 Comparison with alternate form of use
 - 14b Cause localization
 - 14b1 Comm-Imp complex
 - 14b2 Serving host
 - 14b3 Using host
 - 14b3 Try other programs
 - 14b5 Monitor subsystem via "link" procedures, where possible
 - 14b5a Use dialup Dataphone
 - 14b5b Use voice coordination channel
 - 14b6 Move canned messages
 - 14c Cause determination
 - 14d Cause correction
 - [This RFC was put into machine readable form for entry] [into the online RFC archives by David Capshaw 11/97]

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