

Network Working Group
Request for Comment: 4
Category: Informational

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24 March 1969

Network Timetable

- 1 (n10) network checkout
- 2 Installation of communication gear 8/1/69
 - 2a 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
 - 2c 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)

5 Debug host-Imp interface 10/1/69

5a Get debug specifications 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



6b Agree with UCLA on nature of test messages

6b1 Formats

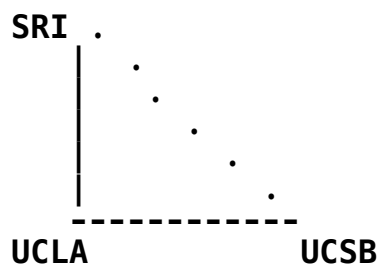
6b2 Sequences

6b3 Checks

6b4 Test procedures

6b5 Fault reporting

- 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
 - 7e1 Via Imps

7e2 Via hosts

7e3 Six tests

7e3a UCLA-I, UCSB-I

7e3b UCLA-H, UCSB-I

7e3c UCLA-H, UCSB-H

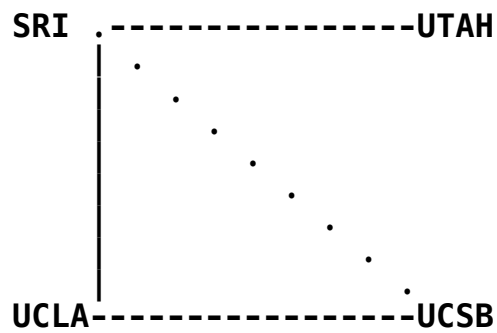
7e3d UCSB-I, UCLA-I

7e3e UCSB-H, UCLA-I

7e3f UCSB-H, UCLA-H

8 Test messages 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

- 9a1 On a serving host
 - 9a1a A to B
- 9a2 From a using host
 - 9a2a A to B
- 9b Multiple user access
 - 9b1 On a serving host
 - 9b1a 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

- 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

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