

INWG 2 International Packet Network Working Group
Report of Subgroup 2

ARPA Network Information Center
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Menlo park, California 94025

INWG 2
25-OCT-72

International Packet Network Working Group:
Report of Subgroup 2 on HOST-HOST Protocol Requirements
Tuesday, 24 October 1972

1. Membership

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Barry Wessler, Vint Cerf, Kjell Samuelson, Derek Barber, C. D. Shephard, Louis Pouzin, Brian Sexton, William Clipsham, Keith Sandum, Alex McKenzie, Jeremy Tucker

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2. Objectives

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The group decided to adopt the following five ordered objectives:

4a

a. Define which issues must be resolved by HOST-HOST (H-H) protocol.

4a1

e.g. Flow control; error detection and handling; retransmission and acknowledgement mechanisms; ways to determine current state of process at "other" end of the conversation; message sequencing; synchronization; addressing problem.

4a1a

b. Select a design philosophy

4a2

The majority feeling was in favor of a message switched H-H protocol. Furthermore, layering of protocol levels seemed very desirable.

4a2a

c. Design the HOST-HOST protocol.

4a3

d. Agree to implement the protocol design by a certain date

4a4

e. Make implementation recommendations.

4a5

3. Strategy

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a. Review of existing protocols for various networks (e.g. Walden Message-Switching Protocol, ARPA H-H Protocol, NPL High-Level Protocol, CYCLADES Protocol, EPSS Protocol, etc., Cerf to arrange for dissemination of relevant material via NIC and/or other sources.

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- b. Through exchange of position papers and other working notes, attempt to achieve objectives 2a - 2e. Infrequent working meetings are to be held as the opportunity arises. 5b
- 4. Organization 6
 - a. Temporary Chairman/Secretary: Vint Cerf 6a
 - b. possible Chairman is software department head of COST 11 Network Executive Board. 6b
- 5. Immediate Tasks 7
 - a. issue mailing list (Cerf) 7a
 - b. Establish NIC identification for INWG2 (Cerf) 7b
 - c. Distribute relevant ARPA and non-ARPA material (Cerf et al) 7c
 - d. solicit position papers from INWG2 members on issues, design philosophy, and implementation. 7d
 - e. plan next meeting. 7e