Call for Participants
10th Data Communications Symposium
Building the Global Network

Napa Valley, California
5-7 October 1987

Sponsored by:

Association for computing machinery
special interest group on Data Communications (SIGCOMM)
IEEE Computer Society
Technical Committee on Computer Communications
IEEE Communications Society
Technical Committees on Data Communication Systems,
Computer Communications

Symposium Overview
The 10th Data Communications Symposium will focus on how to extend the current generation of data networks into a network of global proportion. There are many fundamental problems in naming, routing, protection, and other areas that need new insight to make a global network feasible. The symposium will be held as a workshop with the goal of bringing together a small group of experts in data communications to discuss these and other issues related to building the global network:

Global Network Architecture: What is needed in a global network that we do not have today? Will the global network be a single monolithic network like today’s phone system or will it be a collection of loosely coupled autonomous networks? Will long-haul facilities remain costly and have lower bandwidth when compared to local networks? Where are administrative boundaries necessary and what form should they take?

Integrated End-User Services: What services will users actually want from next generation networks? Who will be the consumers of these services: scientific supercomputing, information publishers, financial services? Is the integration of voice, data, and video a pipe dream? How will ISDN and FDDI interact?

Naming and Directories: What is the global network’s “phone book” going to look like? How will a directory service that effectively scales this problem to size be designed? Does the whole name structure (from top to bottom) have to be designed before work on a directory is begun?

Routing: Are there stable and robust routing algorithms that can deal with global networks? In fact, what is the role of addressing in routing? How dynamic should routing be across separately managed regions of the network? Will the global network be connectionless or connection-oriented?

Protection: Should the network or its endpoints provide authentication and access control? How will the network deal with various security models? Who will mediate among the multiple authentication domains and security perimeters?

Past Experiences: What has been learned from past attempts to build community and enterprise-oriented networks? How do today’s problems encountered by networks such as NSFnet and Physicssnet presage the problems of tomorrow? How will researchers and the standards communities cooperate to build the global network? Can (and must) everything be standardized?

The workshop will be organized as a series of informal presentations and moderated panel discussions. To permit effective interaction, the workshop will be limited to approximately fifty people.

Program Committee
David Clark, Co-Chair, Massachusetts Institute of Technology
David Oran, Co-Chair, Digital Equipment Corporation
Vinton Cerf, Corporation for National Research Initiatives
David Mills, University of Delaware
Roger Needham, Cambridge University
Stephen Langdon, Andahl Corporation

Participant Instructions
To attend, submit a 500 word (two page) written summary of your relevant work in this area, identifying the contribution that you are prepared to make at the workshop. Send three copies of the proposal, a completed registration form, and a (refundable) $250 registration fee by June 15, 1987.

Attendees will be selected by the Program Committee on the basis of their written proposal. Notification of acceptance and rejection will be mailed by August 1, 1987. Accepted participants will receive further information on the workshop and their participation. All other applicants will have their registration fee promptly returned.

10th Data Communications Symposium Registration Form

Registration Fee:
Make $250 check payable to 10th Data Communications Symposium

Mail three copies of proposal, registration form, and registration fee by June 15, 1987.

Send Registration Material To:
10th Data Communications Symposium
c/o David Clark
MIT Laboratory for Computer Science
545 Technology Square
Cambridge, MA 02139
(617) 253-6003

Name ________________________________

Address ______________________________

Affiliation ____________________________ Telephone _______________________

There will be no on-site or late registration for this workshop.