

# Early history of data networks

## IEEE Computer Society Press - Computer Networking History

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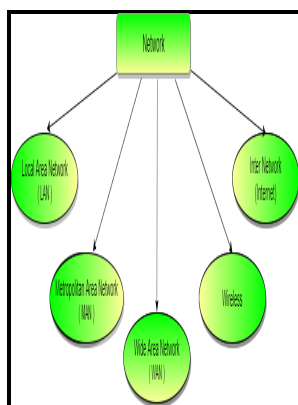
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Notes: Includes bibliographical references (p. 273-280) and index.

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**Early History Data Networks by  
Gerard J. Holzmann**

Thus creating network access to these supercomputer sites for research and academic organizations in the United States.

### Internet

However, NCP did not have the ability to address networks and machines further downstream than a destination IMP on the ARPANET and thus some change to NCP would also be required. Thus, unlike traditional voice communications, packet switching does not require a single dedicated circuit between each pair of users. In 1991, the People's Republic of China saw its first college network, 's TUNET.

### Internet

Also, allowed people that lived outside the US and Europe to download files using ftp commands written inside email messages. Non-government representatives were invited by the fourth IETF meeting in October 1986.

### Computer Networking History

The management of Internet address space remained with the regional Internet registries, which collectively were defined as a supporting organization within the ICANN structure. Information theory, as enunciated by , in the 1940s, provided a firm theoretical underpinning to understand the trade-offs between , , and error-free in the presence of , in technology. It is evolving to permit more sophisticated forms of pricing and cost recovery, a perhaps painful requirement in this commercial world.

### History Of Networking

As part of the IPTO's role, three network terminals had been installed: one for in , one for at , and one for the project at MIT. However, the point-to-point communication model was limited, as it did not allow for direct communication between any two arbitrary systems; a physical link was necessary.

## **History Of Networking**

The final restrictions on carrying commercial traffic ended on April 30, 1995 when the National Science Foundation ended its sponsorship of the NSFNET Backbone Service and the service ended. The telegraph was greatly improved by French engineer Emile Baudot, who devised a method called multiplexing, which transmits up to eight messages on a single telegraph line Morse's original system only allowed for the transmission of one message at a time.

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