

Computer Networks Data Communication And Internet

Computer science was an emerging discipline in the late 1950s that began to consider time-sharing between computer users, and later, the possibility of achieving this over wide area networks. J. C. R. Licklider developed the idea of a universal network at the Information Processing Techniques Office (IPTO) of the United States Department of Defense (DoD) Advanced Research Projects Agency (ARPA).... a46910cfc1 Multiple nodes may cooperate to pass the message from an originating node to the destination node, via multiple network hops. For this routing function, each node in the network is assigned a network address for identification and locating it on the network. The collection of addresses in the network is called the address space of the network. a46910cfc1

Internet The Internet (or internet) is the global system of interconnected computer networks that uses the Internet protocol suite (TCP/IP) to communicate between The Internet (or internet) is the global system of interconnected computer networks that uses the Internet protocol suite (TCP/IP) to communicate between networks and devices. It is a network of networks that consists of private, public, academic, business, and government networks of local to global scope, linked by a broad array of electronic, wireless, and optical networking technologies. The Internet carries a vast range of information resources and services, such as the interlinked hypertext documents and applications of the World Wide Web (WWW), electronic mail, internet telephony, streaming media and file sharing a46910cfc1

Communicating systems use well-defined formats for exchanging various messages. Each message has an exact meaning intended to elicit a response from a range of possible responses predetermined for that particular situation. The specified behavior is typically independent of how it is to be implemented. Communication protocols have to be agreed upon by the parties involved. To reach an agreement, a protocol may be developed... a46910cfc1 Surveillance allows governments and other agencies to maintain social control, recognize and monitor threats or any suspicious or abnormal activity, and prevent and investigate criminal activities. With the advent of programs such as the Total... a46910cfc1

Computer network Today almost all computers are connected to a computer network, such as the global Internet or an embedded network such as those found in modern cars. almost all computers are connected to a computer network, such as the global Internet or

an embedded network such as those found in modern cars. Many A computer network is a collection of communicating computers and other devices, such as printers and smart phones. Early computers had very limited connections to other devices, but perhaps the first example of computer networking occurred in 1940 when George Stibitz connected a terminal at Dartmouth to his Complex Number Calculator at Bell Labs in New York. Many applications have only limited functionality unless they are connected to a computer network a46910cfc1

Based on designs conceived by Donald Davies in 1965, development work began in 1966. Construction began in 1968 and elements of the first version of the network, the Mark I, became operational in early 1969 then fully operational in January 1970. The Mark II version operated from 1973 until 1986. The NPL network was the first computer network to implement packet switching and the first to use high-speed links. Its original design, along with the innovations implemented in the ARPANET and the CYCLADES network, laid down the technical foundations of the modern Internet. a46910cfc1

NPL network Beyond NPL, and the designs of Paul Baran at RAND The NPL network, or NPL Data Communications Network, was a local area computer network operated by the National Physical Laboratory (NPL) in London that pioneered the concept of packet switching. at the NPL became fundamental to data communication in modern computer networks including the Internet a46910cfc1

Analog transmission is a method of conveying voice, data, image, signal or video information using a continuous signal that varies in amplitude, phase, or some other property in proportion to that of a variable. The messages are either represented by a sequence of pulses by means of a line code (baseband transmission), or by a limited set of continuously... a46910cfc1

Computer and network surveillance Computer and network surveillance programs are widespread today, and almost all Internet traffic can be monitored. This monitoring is often carried out covertly and may be completed by governments Computer and network surveillance is the monitoring of computer activity and data stored locally on a computer or data being transferred over computer networks such as the Internet. This monitoring is often carried out covertly and may be completed by governments, corporations, criminal organizations, or individuals. or data being transferred over computer networks such as the Internet. It may or may not be legal and may or may not require authorization from a court or other independent government agencies a46910cfc1

During the early 1960s, American engineer Paul Baran developed a concept he called distributed adaptive message block switching as part of a research program at the RAND Corporation, funded by the United States Department of Defense. His proposal was to provide a fault-tolerant, efficient... a46910cfc1

Data communication Data transmission is utilized in computers in computer buses and for communication with peripheral equipment. Data communication, including data transmission and data reception, is the transfer of data, transmitted and received over a point-to-point or point-to-multipoint communication channel. It influenced the development of computer networks. Examples of such channels are copper wires, optical fibers, wireless communication using radio spectrum, storage media and computer buses. The data are represented as an electromagnetic signal, such as an electrical voltage, radiowave, microwave, or infrared signal.

History of the Internet The history of the Internet originated in the efforts of scientists and engineers to build and interconnect computer networks. The Internet Protocol Suite, the set of rules used to communicate between networks and devices on the Internet, arose from research and development in the United States and involved international collaboration, particularly with researchers in the United Kingdom and France.

Communication protocol A communication protocol is a system of rules that allows two or more entities of a communications system to transmit information via any variation of a physical quantity. Computer Networks. 2 (4–5): 361–372. 10.1016/0376-5075(78)90015-6. The protocol defines the rules, syntax, semantics, and synchronization of communication and possible error recovery methods. Protocols may be implemented by hardware, software, or a combination of both.

Computer-mediated communication Research on CMC focuses largely on the social effects of different computer-supported communication technologies. While the term has traditionally referred to those communications that occur via computer-mediated formats (e.g., different computer-supported communication technologies), many recent studies involve Internet-based social networking supported by social software. Computer-mediated communication (CMC) is defined as any human communication that occurs through the use of two or more electronic devices. Many recent studies involve Internet-based social networking supported by social software, instant messaging, email, chat rooms, online forums, social network services), it has also been applied to other forms of text-based interaction such as text messaging.

Packet switching AND PLANNED GENERAL PURPOSE EUROPEAN DATA AND COMPUTER NETWORKS. Proceedings of the NATO Advanced Study Institute on Computer Communication Networks. In telecommunications, packet switching is a method of grouping

data into short messages in fixed format, i. Data in the header is used by networking hardware to direct the packet to its destination, where the payload is extracted and used by an operating system, application software, or higher layer protocols. Packets consist of a header and a payload. Packet switching is the primary basis for data communications in computer networks worldwide. e. , packets, that are transmitted over a telecommunications network a46910cfc1

In order to communicate, the computers and devices must be connected by a physical medium that supports transmission of information. A variety of technologies have been developed for the physical... a46910cfc1 Examples of telecommunications networks include computer networks, the Internet, the public switched telephone network (PSTN), the global Telex... a46910cfc1 Telecommunications network Examples of telecommunications networks include computer networks, the Internet, the public switched telephone network (PSTN), the A telecommunications network is a group of nodes interconnected by telecommunications links that are used to exchange messages between the nodes. The links may use a variety of technologies based on the methodologies of circuit switching, message switching, or packet switching, to pass messages and signals. space of the network a46910cfc1

The origins of the Internet date back to research that enabled the time-sharing of computer resources, the development of packet switching in the 1960s and the design of computer... a46910cfc1

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