

ADDIS ABABA UNIVERSITY

ADDIS ABABA INSTITUTE OF TECHNOLOGY

CENTER OF INFORMATION TECHNOLOGY AND SCIENTIFIC

COMPUTING

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The brife history of the internet (the evolution)

The internet is the wider network that allows computer networks around the world run by companies, governments, universities and other organisations to talk to one another.The origins of the Internet date back nearly 50 years, with the U.S. military's funding of a research network called “Arpanet”

The plan for this computer network (to be called [ARPANET](http://en.wikipedia.org/wiki/ARPANET)) was presented in October 1967, and in December 1969 the first four-computer network was up and running. The major problem in creating a network was how to connect separate physical networks without tying up network resources for constant links. The technique that solved this problem is known as packet switching and it involves data requests being split into small chunks or packets which can be processed quickly without blocking communication from other parties this process is still used to run the Internet today.

These networks, despite having many connections, were more like private networks than the Internet of today.This rising of different networking protocols soon became a problem, when trying to get all the separate networks to communicate. There was a solution in sight however—Robert Kahn, whilst working on a satellite packet network project for ARPA, started defining some rules for a more open networking architecture to replace the current protocol used in ARPANET. Later joined by Vinton Cerf from Stanford University, the two created a system that masked the differences between networking protocols using a new standard. In the publication of the draft specification in December 1974, this was called the Internet Transmission Control Program.

This specification reduced the role of the network and moved the responsibility of maintaining transmission integrity to the host computer. The result was that it became possible to easily join almost all networks together. ARPA funded development of the software, and in 1977 a successful demonstration of three different networks communicating was conducted. By 1981, the specification was finalised, published and adopted; and in 1982 the ARPANET connections outside of the US were converted to use the new TCP/IP protocol.Then The Internet as we know it had arrived.