

June 2013 Gateway Science Specification Paper

Xerox PARC has been foundational to numerous revolutionary computer developments, including laser printing, Ethernet, the modern personal computer, graphical user interface (GUI) and desktop metaphor–paradigm, object-oriented programming, ubiquitous computing, electronic paper, amorphous silicon (a-Si) applications, the computer mouse, and very-large-scale integration (VLSI) for semiconductors. 1796d73ec8 included on the Stanford University "Birth of the Internet" plaque. 1796d73ec8 The National Science Foundation permitted only government agencies and universities to use the network until 1989 when the first commercial Internet service provider emerged. By 1991, the NSF removed access restrictions and the commercial... 1796d73ec8 The Department for Education prescribes... 1796d73ec8 Unlike Xerox's existing research laboratory in Rochester, New York... 1796d73ec8 IP has the task of delivering packets from the source host to the destination host solely based on the IP addresses in the packet headers. For this purpose, IP defines packet structures that encapsulate the data to be delivered. It also defines addressing methods that are used to label the datagram with source and destination information. 1796d73ec8 Internet Protocol Its routing function enables internetworking, and essentially establishes the Internet. (February 1978) describes IPv2. The IP The Internet Protocol (IP) is the network layer communications protocol in the Internet protocol suite for relaying datagrams across network boundaries. IEN 41 Internetwork Protocol Specification Version 4 (June 1978) describes the first protocol to be called IPv4 1796d73ec8

Introduced in 2003, HDMI largely replaced older analog video standards such as composite video, S-Video, and VGA in consumer electronics. It was developed based on the CEA-861 standard, which was also used with the earlier Digital Visual Interface (DVI). HDMI is electrically compatible with DVI video signals, and adapters allow interoperability between the two without signal... 1796d73ec8

List of Internet pioneers The following people are Internet pioneers who have been recognized for their contribution to its early and ongoing development. L. These contributions include theoretical foundations, building early networks, specifying protocols, and expansion beyond a research tool to wide deployment. Archived 14 May 2011 at the Wayback Machine RFC 904: Exterior Gateway Protocol Formal Specification, D. Mills, April 1984 "The Story of the PING Program" Instead of having a single inventor, the Internet was developed by many people over many years 1796d73ec8

This list includes people who were: 1796d73ec8 inducted into the Internet Hall of Fame; or are 1796d73ec8

National Science Foundation Network 179616. S2CID 3013869. The program created several nationwide backbone computer networks in support of these initiatives. It was created to link researchers to the NSF-funded supercomputing centers. Later, with additional public funding and also with private industry partnerships, the network developed into a major part of the Internet backbone. InterNIC Review Paper Archived 2011-07-19 at the Wayback Machine NSFNET – National Science Foundation Network in the history section The National Science Foundation Network (NSFNET) was a program of coordinated, evolving projects sponsored by the National Science Foundation (NSF) from 1985 to 1995 to promote advanced research and education networking in the United States 1796d73ec8

International Network Working Group Concepts developed by members of the group contributed to the Protocol for Packet Network Intercommunication proposed by Vint Cerf and Bob Kahn in 1974 and the Transmission Control Protocol and Internet Protocol (TCP/IP) that emerged later. The idea for a router (called a gateway at the time) initially came about through

INWG. also RfCs. Set up in 1972 as an informal group to consider the technical issues involved in connecting different networks, its goal was to develop an international standard protocol for internetworking. These gateway devices were different from most previous The International Network Working Group (INWG) was a group of prominent computer science researchers in the 1970s who studied and developed standards and protocols for interconnection of computer networks. INWG became a subcommittee of the International Federation for Information Processing (IFIP) the following year 1796d73ec8

received the IEEE Internet Award; or have been 1796d73ec8 Among the pioneers, along with Cerf and Kahn, Bob Metcalfe, Donald Davies, Louis... 1796d73ec8

HDMI MHL. Connectivity". Retrieved July 9, 2025. It is commonly used to connect devices such as televisions, computer monitors, projectors, gaming consoles, and personal computers. "superMHL Specification – White Paper" (PDF). September 2015. HDMI supports uncompressed video and either compressed or uncompressed digital audio, allowing a single cable to carry both signals. Archived from the original (PDF) HDMI (High-Definition Multimedia Interface) is a brand of proprietary digital interface used to transmit high-quality video and audio signals between devices. Synopsys. com 1796d73ec8

acknowledged by Vint Cerf and Bob Kahn in their seminal 1974 paper on internetworking, "A Protocol for Packet Network Intercommunication"; or 1796d73ec8

PARC (company) by receiving location-specific information via infrared sensors from gateway nodes installed in a particular location. "Jack" Goldman, chief scientist of Xerox Corporation, as a division of Xerox, tasked with creating computer technology-related products and hardware systems. It has a touch screen, stylus Future Concepts division (formerly Palo Alto Research Center, PARC and Xerox PARC) is a research and development company in Palo Alto, California. It was founded in 1969 by Jacob E 1796d73ec8

Internet filter "159. The motive is often to prevent access to content which the computer's owner(s) or other authorities may consider objectionable. Glossary: Secure Web Gateway". censorware. gartner. Retrieved 27 March 2012. When imposed without the consent of the user. com. 54 An Internet filter is a type of internet censorship that restricts or controls the content an Internet user is capable to access, especially when utilized to restrict material delivered over the Internet via the Web, Email, or other means. "Censorware Project". net. Such restrictions can be applied at various levels: a government can attempt to apply them nationwide (see Internet censorship), or they can, for example, be applied by an Internet service provider to its clients, by an employer to its personnel, by a school to its students, by a library to its visitors, by a parent to a child's computer, or by an individual user to their own computers. Archived from the original on 20 June 2015 1796d73ec8

IP was the connectionless datagram service in the original Transmission Control Program introduced by Vint Cerf and Bob Kahn in 1974, which was complemented by a connection-oriented service that became the basis for the... 1796d73ec8

Science education in England Below university level, science education is the responsibility of three bodies: the Department for Education, Ofqual and the QAA, but at university level, science education is regulated by various professional bodies, and the Bologna Process via the QAA. Ofqual on the other hand, regulates science education for GCSEs and AS/A levels, as well as all other qualifications, except those covered by the QAA, also via qualification boards. The QAA also regulates science education for some qualifications that are not university degrees via various qualification boards, but not content for GCSEs, and GCE AS and A levels. in the 2010s, single science has effectively been removed from most GCSE specifications, and the two components of double science have been combined to Science education in England is generally regulated at all levels for assessments that are England's, from 'primary' to 'tertiary' (university) 1796d73ec8

COinS The metadata can also be sent to an OpenURL resolver. This allows, for instance, searching for a copy of a book at a specific library. This allows bibliographic software to publish machine-readable bibliographic items and client reference management software to retrieve bibliographic metadata. Discussion of the latter on the GPS-PCS mailing list resulted in a draft specification for embedding ContextObjects in Spans (COinS) is a method to embed bibliographic metadata in the HTML code of web pages. and a working paper by Chudnov and Jeremy Frumkin 1796d73ec8

National Physical Laboratory (United Kingdom) It sets and maintains physical standards for British industry. first paper on Internet email, published in the Internet Experiment Note series. In the early 1990s, the NPL developed three formal specifications of the The National Physical Laboratory (NPL) is the national measurement standards laboratory of the United Kingdom 1796d73ec8

NPL is based at Bushy Park in Teddington, south... 1796d73ec8 Founded in 1900, the NPL is one of the oldest metrology institutes in the world. Research and development work at the laboratory has contributed to the advancement of many disciplines of science, including the development of early computers in the late 1940s and 1950s, construction of the first accurate atomic clock in 1955, and the invention and first implementation of packet switching in the 1960s, which is today one of the fundamental technologies of the Internet. The former heads of NPL include many individuals who were pillars of the British scientific establishment. 1796d73ec8

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