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NETTON'S TELECOM DICTIONARY

Covering Telecommunications,
Networking, Information Technology,
Computing and the Internet

MORE THAN 21,000 TERMS DEFINED



Updated, Improved and Expanded Editionby Harry Newton

NEWTON'S TELECOM DICTIONARY

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Published by CMP Books
An imprint of CMP Media LLC
Main office: CMP Books, 600 Harrison St., San Francisco, CA 94107 USA
Phone: 415-947-6615; Fax: 415-947-6015
Sales office: CMP Books, 12 West 21 Street, New York, NY 10010
Phone 917-305-3333; Fax 212-206-0387
www.cmpbooks.com
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Email: cmp@rushorder.com; Web: www.cmpbooks.com

Distributed to the book trade in the U.S. by: Publishers Group West, 1700 Fourth Street, Berkeley, California 94710

Distributed in Canada by: Jaguar Book Group, 100 Armstrong Avenue, Georgetown, Ontario M6K 3E7 Canada

Printed in the United States of America

This book is also sold through www.Amazon.com, www.Fatbrain.com and www.BarnesAndNoble.com

Distributed to the book trade in the U.S. and Canada by Publishers Group West 1700 Fourth St., Berkeley, CA 94710 Fax: 408-848-5784 cmp@rushorder.com

ISBN Number 1-57820-307-4

March 2003

Nineteenth Edition

Matt Kelsey, Publisher Ray Horak, Senior Contributing Editor Saul Roldan, Cover Artist Lisa Giaquinto, Project Manager Brad Greene, Text Layout the caller, a hefty bill for that personalized service. Until recently, personte was only offered by AT&T. Now it's offered by most phone companies. the main, are not regulated. And some companies charge an arm and a leg.

mbers, which are basically party line 800 numbers with call routing. The is as follows: You dial a number, e.g. 800-484-1000. A machine answers beep. You punch in four or five digits on your touchtone pad. A voice the other end hears the digits, says "Thank you for using MCI" and dials stance number which might be 212-691-8215 (mine). The long distance uping under \$5 a month and 15 to 25 cents a minute for the service. The ups are more expensive than normal 800 lines. One company, MCI, is also if ME 800 which allows you to change the routing of your personal 800 with one phone line.

Agent A personal agent is a piece of software on your personal computer pidding. It may answer your emails (or at least some of them). It may find the you're looking for. It may schedule appointments for you. The concept has a secretary anymore. So why not program your computer to do your entity done. A software agent is software in the making.

Area Network See 802.15.1 and PAN.

Authentication Device P.A.D. A portable or fixed device which the identification and validation of each user. Used in fraud prevention and the identification are in the identification of each user. Used in fraud prevention and the identification is a second to the identification of each user.

Central Office Trunk Line Also known as a "private line." Lethind a PBX to access a central office trunk line dedicated to him; also to all him directly, bypassing the PBX. Such a private line can appear on a trun on an electronic PBX phone, or can terminate on a separate phone. As ebpasses the PBX, the console attendants can't listen to your conversations; technicians, unless they physically tap the line. Private lines, therefore, are trunk they provide the power outages which might affect the PBX system. Senior executives the power outages which might affect the PBX system. Senior executives the provided in the p

dommunications Industry Association PCIA. The trade at the new cellular phone providers. PCIA represents a wide range of interests, behand PCS, paging and narrowband PCS, antenna site owners and manifed Mobile Radio (SMR), suppliers and manufacturers. See also PCS.

communications Networks PCN. A new type of wireless teletat would use light, inexpensive handheld handsets and communicate via
seen as a city communications system, with far less
tax. Subscribers would be able to make and perhaps receive calls while they
takey can do today with cellular radio systems, but at a low price. There's
that would hub off the PCN antenna. This would save the phone comtax phone, but with a larger range. Dr. Sorin Cohn of Northern Telecom calls
wireless, personal communications systems an "enabler of unplanned
that would see PCN and Personal Communications Services.

In the same frequency bands in various countries, and thus is several different frequency bands in various country." See also Personal Communications Services.

munications Services PCS are a broad range of individutors services that let people or devices to communicate irrespective as of the services include:

assigned to individuals rather than telephones

Call completion regardless of location ("find me")

Calls to the PCS customer can be paid for by the caller, or by the PCS customer

Call management services giving the called party much greater control over incoming calls.

PCS can both find and complete a call to a person regardless of location, but give that person the choice of accepting or rejecting the call or sending it somewhere else. PCS will possibly use a new category of wireless, voice and data communications — using low power, lightweight pocket telephones and hand-held computers.

Personal Computer PC. A computer for one person's use. That's why it was originally called a personal computer — to distinguish it from other computers that existed at the time of the PC's invention, or 1981, the date IBM introduced its first PC. Those other computers were mainframes and mini-computers. Their main use was to be shared by many users. Airline reservations, being an example. Of course, as the PC got more powerful, things got more complex. In 1983, Novell introduced its first local area network software called NetWare. NetWare was originally introduced to allow a handful of personal computers to share a single hard disk, which at that stage was costly and scarce. As hard disks became more available and cheaper, NetWare evolved to allow sharing of printers and file servers. Networking developed in the 1980s and 1990s and gave PCs the shared-user power of mainframes and minicomputers. As a result, today some PCs are personal computers, used by one person standalone. Some PCs are PCs that sit on a local area network (LAN). For some reason, people call these PCs workstations. And there are some PCs which have become servers — i.e. they "serve" many PCs. They may do faxing. They may do voice mail for the company. They may run the company's entire phone system. In short, meanings change as technology changes. Not all PCs are personal computers.

Personal Computer Memory Card International Association See PCMCIA.

Personal Computing Systems Architecture PCSA. A network architecture defined and supported by Digital Equipment Corp. for the incorporation of personal computers into server-based networks.

Personal Computer Terminal Adapter PCTA. A printed circuit card that slips into an IBM PC or PC compatible and connects the PC to the ISDN T-interface. The PCTA basically turns a normal PC into an ISDN phone and ISDN terminal, ready for voice and data communications. According to Northern Telecom, one of the manufacturers of such a device, the PCTA does:

Functional signaling call setup.

B channel for circuit switched data.

• X.25 packet data services on the B or D channel.

Simultaneous operation of the B and D channels.

M5317T digital telephone to PC messaging for integrated voice and data operation.
 NetBIOS interface to applications software, such as Microsoft Networks.

For more, see Northern Telecom's brochure ISDN PC Terminal Adapter NetBIOS Interface Description (D307-1).

Personal Data Interchange PDI. A format for exchanging information, such as electronic business, cards via wired or wireless connections.

Personal Data Module A removable module, unique to the ROLM Cypress and Cedar, which stores all information entered by the user. Such items as phone numbers, terminal profiles and log-on sequences are stored in the PDM, which also features battery backup to protect the memory in the event of a power failure. The user can take his personal data module with him, plug it into another Cypress or Cedar and get all his speed dial and other personalized programming on his phone he just moved from.

Personal Digital Assistant PDA. A consumer electronics gadget that looks like a palmtop computer. Unlike personal computers, PDAs will perform specific tasks-acting like an electronic diary, carry-along personal database, personal communicator, memo taker, calculator, alarm clock. The communications will take place through the phone, through a cable attached to your PC or through infrared. See also Windows CE.

Personal Identification Number PIN number. 1. An AT&T term meaning the last four digits of your AT&T, MCI Bell operating company Credit Card — the card you use for making long distance numbers. 2. Some banks and financial institutions issue credit cards for machine, teller-less banking. These machines, called Automated Teller Machines, ask you for a password consisting of several numbers or characters. These are not on your credit card. These numbers or characters, called PIN numbers, are designed to make sure the right person is using your card. It's not a good idea to use your birthday as your PIN number.

