TELECONA DOCUMENT 48-5 FIED 33/15/10 Page 2 of 70 Section 15/10 Page 2 of 7

The Official Dictionary of Telecommunications & the Internet

IP Telephony • LANs & Intranets • Call Centers & Computer Telep

hony

Fiber Opti

を な な な な

中國等 開東 四個

cs, SONET and DWDM • Satellites

Voice, Data

, Image & Video Networking • Wired

and Wireless

Telecom • VoIP • T-1, T-3, T-4, E-1,

E-3 • ISDN & ADSL • Cable Modems • Cellular,

PCS & GSM • Windows 95, 98, NT, NetWare,

Apple, Sun & Unix Networking • Ecommerce

Updated
15th
Expanded
Edition

by Harry Newton

DISH, Exh.1017, p.0001



NEWTON'S TELECOM DICTIONARY

Copyright © 1999 Harry Newton email: Harry@HarryNewton.com personal web site: www.HarryNewton.com

All rights reserved under International and Pan-American Copyright conventions, including the right to reproduce this book or portions thereof in any form whatsoever.

Published in the United States by Miller Freeman, Inc. Tenth floor 12 West 21 Street New York, NY 10010 212-691-8215 Fax 212-691-1191 1-800-999-0345 and 1-800-LIBRARY

ISBN Number 1-57820-031-8

August, 1999

For individual orders, and for information on special discounts for quantity orders, please contact: Telecom Books 6600 Silacci Way Gilroy, CA 95020 Tel:800-LIBRARY or 408-848-3854 Fax:408-848-5784 Email:telecom@rushorder.com

Distributed to the book trade in the U.S. and Canada by Publishers Group West 1700 Fourth St., Berkeley, CA 94710

Fifteenth Edition, Expanded and Updated Matt Kelsey, Publisher Christine Kern, Manager

Manufactured in the United States of America

NE TE DIC1

The Off Telecommur

15th Update

NEWTON'S TELECOM DICTIONARY

The Official Dictionary of Telecommunications & the Internet

15th Updated, Expanded and Much Improved Edition

DISH, Exh.1017, p.0003

ght conventions, including the right

for quantity orders, please contact:



signal by changing its phase, or position, Phase Shift Keying (PSK) in modems. CPM dependent technique which requires that the compare the value of the starting phase of the nal to the value of the ending phase of the p mitted signal. Thereby, the value of the trans can be determined, as long as the transmitter carefully synchronized and the bit interval: consistent in time. Each value can represent of depending on whether a compression techr improve the efficiency of data transmission. Continuous Waves A series of wave or all of which have a constant or unvarying am Continuously Variable Capable of ha infinite number of values, differing from each trarily small amount. Usually used to describ or analog transmission.

Contract For the purposes developing ap telecommunications industry, there are two ty Active and Passive. An active contract is one A passive contract is the type of contract yo ware package. By opening the shrink wrappe are committing yourself to the terms of the co package - the terms of which mostly cons cating the software in an authorized way.

Contributing Whore A title Control Cable A multiconductor cable ma in control or signal circuits.

Control Channel Within a cellular telepho eral of the channels are assigned as 'co Instead of supporting voice communications allow the base station to broadcast informatic phones in its area, Cellular phones continuou broadcast information, selecting the base s vides the best signal.

Control Character A non-printing ASCII controls the flow of communications or a deviacters are entered from computer terminal key ing down the Control key (marked CTRL on while the letter is pressed. To ring a bell at rer nal, an operator could hold down the CTRL "G" key, since Control-G is the BELL characte ers display Control as the "A" character in fronated letter. For example, ^M is the Carriage Control Circuit X.21 interface circuit used information from DTE to DCE

Control Connections A Control VCC link LECS. Control VCCs also link the LEC to th LE_ARP traffic and control frames. The con carry data frames.

Control Equipment 1. The central "br phone system. That part which controls th switching to the attached telephones. Knowr key service unit) in a key system.

2. Equipment used to transmit orders from ar remote site to enable you to do things by ren Control Field Field in frame containing cor Control Flug A cellular phone term. A 6-1 ted in the forward channel data stream, com busy/idle flag and one bit of the 5-bit decode **Control Head Roam Lights Indicates** phone is outside the "home" system.

Control Of Electromagnetic Radiati taken to minimize electromagnetic radiation e

206

system or component, or to minimize electromagnetic interfersystem of control of the system of the syste ance. Such interference, especially on ships and aircraft. he reduced a plan to minimize the use of electro-2. A harden and the United States and its possessions magnetic radiation in the orinted states and its possessions and the Panama Canal Zone in the event of attack of imminent threat thereof, as an aid to the navigation of hostile aircraft, quided missiles, or other devices.

Control Of Flow Language Programming-like con-tructs (IF, ELSE, WHILE, GOTO, and so on) provided by Transact-SQL so that the user can control the flow of execuign of SQL Server queries, stored procedures, and triggers. This definition from Microsoft SQL server.

Control Panel The control panel on the Apple Macintosh is for general hardware and software settings. Icons allow a user to customize the system or application, or select a particular service, such as a specific printer, set the sound level, the date and time and choose an Ethernet connection through the network control panel.

Control Plane The ATM protocol includes a Control Plane which addresses all aspects of network signaling and control, through all 4 layers of the model.

Control Point A program that manages an APPN network node and its resources, enabling communications to other control points in the network.

control Segment A worldwide network of Global Positioning System monitoring and control installations that ensure the accuracy of satellite positions and their clocks.

Control Signal 1. In the public network, control signals are used for auxiliary functions in both customer loop signaling and interoffice trunk signaling. Control signals are used in the customer loop for Coin Collect and Coin Return and Party identification. Control signals used in interoffice trunk signaling include Start Dial (Wink or Delay Dial) signals, Keypulse (KP) signals or Start Pulse (ST) signals.

In modern communications, control signals are modern interface signals used to announce, start, stop or modify a function. Here's a table showing common RS-232-C and ITU-V24 control signals

1 V.24 CONTO SIGNAIS				
	Pin	Control Signal	From	To
	4	Request-To-Send (RTS)	DTE	DCE
	5	Clear-To-Send (CTS)	DCE	DTE
	6	Data Set Ready (DSR)	DCE	DTE
	8	Carrier Detect (CD)	DCE	DTE
	20	Data Terminal Ready (DTR)	DTE	DCE
	22	Ring Indicator (RI)	DCE	DTE
_			14 1	

Control Station On a multi-access link, a station that is in charge of such functions as selection and polling

Control Tier An AT&T term for the tier within the Universal Information Services network node that provides the transport network's connection control function.

Control Unit An architectural component of a processor thip which orchestrates processor activity and handles timing to make sure the processor doesn't overlap functions.

Controlled Access When access to a system is limited to authorized programs, processes or other systems (as in a net-

Controlled Environment Vault CEV. It is a low maintenance, water-tight concrete or fiberglass container typically buried in the ground which provides permanent housing for remote switches, remote line concentrators, pair gain and liber transmission systems. Because it is buried, it can often be installed in utility easements or other places where local building laws may be a problem. This below ground room that

houses electronic and/or optical equipment is under controlled temperature and humidity conditions.

Controller 1. In the truest sense, a device which controls the operation of another piece of equipment. In its more common data communications sense, a device between a host and terminals that relays information between them. It administers their communication. Controllers may be housed in the host, can be stand-alone, or can be located in a file server. Typically one controller will be connected to several terminals. The most common controller is the IBM Cluster Controller for their 370 family of mainframes. In an automated radio, a controller is a device that commands the radio transmitter and receiver, and that performs processes, such as automatic link establishment, channel scanning and selection, link quality analysis, polling, sounding, message store and forward, address protection, and anti-spoofing.

2. Participant in a conference call who sets up the conference call.

Controller Card Also called a hard disk/diskette drive controller. It's an add-in card which controls how data is written to and retrieved from your PC's various floppy and hard drives. Controller cards come in various flavors, including MFN and SCSI. Controller cards are the devices used to format hard drives. Controller cards are not hard drive specific (except within categories). Controller cards will format many drives. But once you have a hard drive that has been formatted by that one controller card, it tends to prefer talking to that controller card forever. If you switch your hard disk to another machine, switch the controller card along with it. If you switch your hard disk to another machine, but not the controller card, then format the hard disk. That's not a "100% Do It Or Else You'll Be Disappointed" rule. But just a "Play It Safe and Switch Them" rule.

Conturing In digital facsimile, density step lines in received copy resulting from analog-to-digital conversion when the original image has observable gray shadings between the smallest density steps of the digital system.

CONUS A military term for CONtiguous United States (lower 48 states). See Contiguous United States.

Convection Cooling Design techniques used in switching system construction to permit safe heat dissipation from the equipment without the need for cooling fans.

Convector The device which covers the steam heating radiator in buildings and typically sits underneath a window. Also called a weathermaster.

Convector Area An area allocated for heat circulation and distribution. Convector areas, typically built into a wall, can be used as a satellite location only if a more suitable area is

Convergence 1. A measure of the clarity of a color monitor. A measure of how closely the red, green and blue guns in a color monitor track each other when drawing a color image. The other measures are focus and dot pitch.

2. A LAN term. The point at which all the internetworking devices share a common understanding of the routing topology. The slower the convergence time, the slower the recovery from link failure.

3. The word to describe a trend, now that most media can be represented digitally, for the traditional distinctions between industries to blur and for companies from consumer electronics, computer and telecommunications industries to form alliances, partnerships and other relationships, as well as to raid each others markets.

4. The word "convergence" was 1564 in motion in 1992 when



NEWTON'S TELECOM DICTIONARY

aving me money and making Ms. Thomas feel muchly glated. Thus her recent email correspondence with me: Thanks for all the hard work and the upcoming hard work nien: It's been a pleasure. Congrats on a great deal. Chatkash coming. You know what Chatkash are? milen: Yes. It's all the stuff you've been re-gifting to me. The queen. A deserved title. If only I were 20 years

more handsome and much smarter. Three traits to Mhe riddley.

Regional Bell Operating Company RBOC. Also Regional Holding Company or RHC. One of the seven (ive) Belt operating companies set up after Divestiture. of which own two or more BOCs (Bell Operating hies). The RBOCs were carved out of the old AT&T/Bell neby Judge Harold Greene when he signed off on the dure of the Bell operating companies from AT&T at the 1984. There is nothing magical about seven — nor the ing of Bell Operating Companies (BOCs) into RBOCs the Judge wanted to keep them all roughly the same he personally assigned which Bell operating company ajoin which Regional Bell Operating Company. The RBOCs are Ameritech, Bell Atlantic, BellSouth, NYNEX, Telesis, Southwestern Bell and US West. In early Ref. 1994, Southwestern Bell changed its name to SBC mmunications, Inc. But its telephone companies, it said, midistill operate under the Southwestern name. In April, Bell Atlantic bought NYNEX (the holding company for Work Telephone and New England Telephone) for \$22.1 heThe new company will be called Bell Atlantic. In April GBC Communications (the name for the holding compawayning Southwestern Bell Telephone) bought Pacific s (the holding company for Pacific Bell) for \$16.7 billion. flearly 1998, this left five regional Bell operating compa-Ameritech, Bell Atlantic, BellSouth, SBC in punications and US West.

of the Divestiture placed business restrictions on AT&T the BOCs. Those restrictions were threefold: The BOCs get allowed into long distance, equipment manufacturing, information services. AT&T wasn't allowed into local Immunications (i.e. to compete with the BOCs). But it allowed into computers. The federal Judge overseeing stiture, Judge Harold Greene, is slowing the lifting the ations. He has allowed the BOCs into information sersand AT&T into local service. He has stayed firm on the atwo — no equipment manufacturing and no long disfor the RHCs (also called RBOCs).

Regional Center A control center (Class 1 office) conhig sectional centers of the telephone system together.

Regional Holding Company RHC. Also called Mal Bell Operating Company, See Regional Bell aling Company.

Register 1. See Traffic Register.

demporary-memory device used to receive, hold, and er data (usually a computer word) to be operated upon processing unit. The register holds the information for pulation by the telephone system or a computer. In an palic telephone system, a register receives dialed pulses Ishbutton tones and then uses that information to control Witch. Computers typically contain a variety of registers. cal-purpose registers perform such functions as accu-Ung arithmetic results. Other registers hold the instrucbeing executed, the address of a storage location, or data Reliable trieved from ar cont to starona. Other words accorde

sequence, read-only storage, permanent storage, randomaccess memory and shift register.

Register Differences The difference in traffic register reading after a specified time has elapsed. See also Traffic

Registered Access In the context of message handling services, access to the service performed by subscribers who have been registered by the service provider to use the service. Registered Jack RJ. Any of the RJ series of jacks,

described in the Code of Federal Regulations, Title 47, part 68 used to provide interface to the public telephone network. See also RJ-11, RJ-45.

Registered user A user of a Web site with a recorded name and password. In a FrontPage web, you can register users with a WebBot Registration component.

Registrant See gTLD.

Registration Sequence Count An 8-bit counter maintained by the Mobile End System (M-ES) and incremented on each successful establishment of a data link connection with a serving Mobile Data Intermediate System (MD-IS). Used to prevent registration errors due to varying network transit delays between serving MD-IS and home MD-IS.

Registration Statement A statement, required by Section 76.12 of the FCC Rules, which is used to notify the FCC that one or more broadcast stations will be carried by the cable television system in a specified Community Unit.

Registered Terminal Equipment Terminal equipment which is registered for connection to the telecommunications network in accordance with Subpart C of Part 68 of the FCC's Rules. If a terminal device has been properly registered it will have an identification number permanently affixed to it.

Registers An ISDN term. Registers are named storage areas for numbers or strings of characters that control the operation of the ISDN set.

Registration The address registration function is the mechanism by which Clients provide address information to the LAN Emulation Server.

Registration Number (FCC Part 68) Approval number given to telephone equipment to certify that a particular device passes the tests defined in Part 68 of the FCC Rules. These tests certify the phone won't cause any harm to the public network. They do not attest to the commercial value of the product, nor whether it will (or won't) sell. See Registration Program.

Registration Program The Federal Communications Commission program and associated directives intended to assure that all connected terminal equipment and protective circultry will not harm the public switched telephone network or certain private line services. The program requires the registering of terminal equipment and protective circuitry in accordance with Subpart C of part 68, Title 47 of the Code of Federal Regulations. This includes the assignment of identification numbers to the equipment and the testing of the equipment. The registration program contains no requirement that accepted terminal equipment be compatible with, or function with, the network. In other words, a product registered under Part 68 doesn't mean that the product will actually work i.e. make and receive phone calls (or whatever). Part 68 simply says it won't cause any harm to the network. See Registration Number and Part 68.

Registration Timer Values Time values passed from Mobile Data Intermediate System (MD-IS) to a Mobile Edd System (M-ES) to inform the M-ES of the period of registra-



DOCKET

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

