NEWTON'S TELECOM DICTIONARY

The Official Dictionary of Telecommunications & the Internet

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

Fiber Optics, SONET and DWDM • Satellites

Voice, Data, Image & Video Networking • Wired

and Wireless Telecom • VoIP • T-1, T-3, T-4, E-1,

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

Updated 15th

...ok It is also called the Hook Switch. A switch ... switch was originally an electrical "switch" con- ... "hook" on which the handset (or receiver) was ... the telephone was not in use. The switch hook is ... plunger at the top of most telephones which is ... when the handset is resting in its cradle (on- ... the handset is raised, the plunger pops up (the ... off-hook). Momentarily depressing the switch ... 0.8 of a second) can signal various services such ... attendant, conferencing or transferring calls. ... AT&T ISDN sets have several switch hooks; one ... set, one for the speakerphone, a "virtual" switch ... an adjunct is attached, an adjunct switch hook. If ... ks are "on-hook" or hung up, the ISDN set is on- ... witch hook is "off-hook," then the ISDN set is off- ... than one switch hook is off-hook, the ISDN set ... ex algorithm to determine whether the handset, ... hone, or the adjunct has precedence (only one ... at a time).

...ok Flash A signaling technique whereby the ... ginated by momentarily depressing the switch ... WITCH HOOK.

...erface The Ethernet MAC controller interface. In ... itch interface on a switch is the same as a port. ... number of interfaces does not necessarily corre- ... number of ports. For example, a MAB port on a ... e a 4-port repeater.

...ssage Information that originates in a switch. ... ss Event Message is one category of switch ... elivered is an example of a call-progress event

...er When a failure occurs in the equipment, a ... ccur to an alternative piece of equipment.

...t An SCSA definition. A resource that allows a ... municate with another Group. All Groups implic- ... a Switch Port as a secondary resource, but in ... it, the application must explicitly connect the ... of two Groups.

...lirect A central office service which instantly, on ... directs thousands of phone numbers to different ... rs. Such a service has great use in a disaster.

...m The room in which you put phone equipment. ... e Phone Room. (What else?) The Phone Room ... rge, clean and should stay at roughly seventy ... 50% humidity. You, the customer, are responsi- ... uality and condition of your phone room. The ... the hotter it is, the dirtier it is, the poorer your ... (and its technicians) will function.

...der In the old, old days, the switch tender was ... o took care of the switch that moved trains from ... nother. That person often stayed for many hours ... all hut next to the track. Based on timetables and ... phone communications with central dispatch, he ... the switch and thus move incoming trains to the ... e job of being a switch tender is now obsolete as ... now changed remotely by signals over phone ... ression "sleeping at the switch" came from the ... profession. Sleeping at the switch could train

soles (they're much smaller and they fit on desks). Switchboards are desks.

Switchboard Cable A cable used within and between the central office main frames and the switchboard.

Switched 56 A switched data service which lets you dial someone else and transmit at 56 Kbps over the PSTN (Public Switched Telephone Network). Actually Switched 56/64, Switched 56 also is available at 64 Kbps, where the carrier supports non-intrusive signaling and control. It is a circuit-switched service, letting the user transmit data at 56/64 Kbps over a four-wire, digital, synchronous network. The cost of a Switched 56/64 call is calculated based on duration and time of day, with discounts for non-prime time calls; discounts also apply according to day of week, holidays, and so on.

Provided by LECs, Switched 56/64 was the first VPN (Virtual Private Network) service offered. The term "VPN" currently is applied to IXC services, with bandwidth available at 56/64 Kbps, increments of 56/64 Kbps, 384 Kbps, and 1.544 Mbps (T1). Switched 56/64 offers a high degree of redundancy, flex-ibility and scalability. It often is used as an alternative to pri-vate, leased-line networks — or as a backup for them.

Applications for Switched 56 include videoconferencing, high speed data transfer, digital audio broadcasting, Group IV fax and remote LAN access for telecommuters. It also is used as an access technology for IXC-provided VPNs. While it is wide-ly deployed, Switched 56/64 faces a great deal of pressure from ISDN BRI, which offers as much as 144 Kbps, where available. Over time, Switched 56/64 will disappear for good in North America. See also VPN.

Switched Access A method of obtaining test access to telecommunications circuits by using electromechanical cir-cuitry to switch test apparatus to the circuit.

Switched Access Line Service All residential and most businesses use this type of telephone access. It refers to the connection between your phone and the long distance compa-nies' switch (POP) when you make a regular local or long dis-tance telephone call over standard phone lines.

Switched Carrier In data terms, physical line specification selection indicating a half duplex line in a bisync network.

Switched Circuit Automatic Network SCAN. A ser-vice arrangement at certain Telco premises to interconnect pri-vate line telephone service channels of a switched service net-work provided to certain agencies of the federal Government.

Switched Circuit Ordering And Tracking System SCOTS. MCI's automated tracking and order processing sys-tem for Dial up products, IMTs, and the MCI switched network.

Switched DAL Switched Dedicated Access (Egress) Line. Dedicated trunk group (T-1, etc.) circuit(s) used to access (1+, etc.) or egress (800, etc.) through normal network switching facilities. The Switched DAL is dedicated to a particular inbound or outbound call type.

Switched Digital Services Applications Forum See SDSAF.

Switched Line A circuit which is routed through a circuit switched network, such as the telephone or telex network.

Switched Local Service You pick up the phone. You dial a local number. Bingo, you have switched local phone ser-vice. The reason this trivial definition is even in this dictio-

So things are changing, albeit very very slowly.

Switched Loop In telephony, a circuit that automatically releases connection from a console or switchboard, once con-nection has been made, to the appropriate terminal. Loop but-tons or jacks are used to answer incoming listed directory num-ber calls, dial "O" internal calls, transfer requests , and inter-cepted calls. The attendant can handle only one call at a time.

Switched Loop Operation Each call requiring attendant assistance is automatically switched to one of several switched loops on an attendant position.

Switched Multibeam A type of "smart antennae" used in Wireless Local Loop (WLL) systems. Switched multibeam antennae detect signal strength in a given connection, and select a beam between an end device and one of perhaps many WLL antennae, locking in on the strongest signal. Also in the general category of "smart antennae" systems is the phased array approach. See also PHASED ARRAY and WLL.

Switched Multimegabit Data Service SMDS. A 1.544 Mbps public data service with an IEEE 802.6 standard user interface. It can support Ethernet, Token Ring and FDDI (OC-3c) LAN-to-LAN connections. See SMDS and SMDS Interest Group.

Switched Network See PSTN.

Switched Private Line Network A network which results from combining point-to-point circuits with switches.

Switched Service Network A private line network that uses scan and/or CCSA type common control switching.

Switched Transport A name for telephone traffic between the local exchange carriers' Central Offices and an interexchange carrier's point of presence (POP). Switched transport is general-ly provided on a monopoly basis as part of a LEC's network.

Switched Virtual Circuit SVC. A call which is only established for the duration of a session and is then discon-nected. See SVC.

Switcher Also called a production switcher. A video term. A device that allows transitions between different video pictures. May also contain special effects generators.

Switchhook A synonym for hookswitch or hook· switch. Also spelled switch hook. See SWITCH HOOK.

Switching Connecting the calling party to the called party. This may involve one or many physical switches.

Switching Arrangement A circuit component which enables a Customer to establish a communications path between two phones on a network.

Switching Centers There are four levels in the North American switching hierarchy run at AT&T. They are: Class 1 — Regional Center, Class 2 — Sectional Center, Class 3 — Primary Center, Class 4c — Toll Center and Class 4P — Toll Point. In addition, the local Bell operating companies run a fifth level in the hierarchy, called the Class 5 — End Office.

Switching Equipment Premises equipment which per-forms the functions of establishing and releasing connections on a per call basis between two or more circuits, services or communications systems.

Switching Equipment Capacity A telephone company term. The capacity of switching equipment is expressed in net-work access lines. these components can be grouped into four categories. For D&F Chart purposes, the four categories

Switching ... uncontested ... gent switchin... routing capab...

Switching ... office.

Switching ... for establishi... trunks to trun... 2. An ATM ter... and appear as...

Switchless ... tance service... AT&T, and res... its monthly b... to its custom... tions facilities... — a compute... to sell its serv... the difference... ny and what... resellers are ... be in, since y... to compete ag...

SXS Step by ... phone system... ment by a su... from stage to... dialing of a n...

Symbol 1. ... any relationsh... 2. In digital tr... is associated ... nal within a c... for example, ... possible state... An abbreviate... ship, associa...

Symbolic ... memory-resid... control execu... most basic le... code, and fid... if you unders... code you've v... machine cod... high-level la... symbolic del... cutable, prov... points, etc., ... machine-lang... easier for hig... ing with mach... erences both... files produce... high-level la... execution. Fu... Microsoft's V...