

REFERENCE AREA S&L AREA PROVIDER AREA HELP			
CC DOCKET NO. 96 - 45¹ SCHOOLS AND LIBRARIES^{2,3} Eligibility List			
SERVICE	ELEMENT/DESCRIPTION	ELIGIBLE YES/NO	PARAGRAPH CITE
TELECOMMUNICATIONS SERVICES			
The primary purpose of the services for which support is sought must be the delivery of services to the classrooms or other places of instruction at schools and libraries that meet the statutory definition of an eligible institution. Support for the administrative functions of library or education programs is permitted so long as the services are part of the network of shared services for learning. Support will be limited to services delivered to the onsite educational facility or facilities.⁴ The Paragraph Cite column represents the paragraph from FCC 97-157, FCC 97-420, Appendix or the FCC Public Notice "Updated Frequently Asked Questions on Universal Service and the Snowe-Rockefeller-Exon-Kerrey Amendment" that is most closely associated with the particular service. The information in the column is not intended to be all inclusive and other references should be considered.			
Asynchronous Transfer Mode (ATM)	ATM is a high bandwidth switching technology that can handle all types of traffic such as voice, video, data, images, high quality audio and multimedia. It uses small, fixed size cells and is asynchronous because cells are transmitted through a network on an "as needed" basis and not merely transmitted during specific time intervals. It can be used for both WAN and LAN applications and provides a seamless interworking between the two. ATM is a technology designed to combine the benefits of switching technology with those of packet switching.	Yes	431
Cable TV Access	Only if the service is provided as a commercially available telecommunications service, or part of Internet access, or an internal connection that is necessary to transport information to individual classrooms. Under the cite, cable providers are not normally considered providers of interstate telecommunications.	Conditional	54.703 Appendix I Final Rules 450
CENTREX	A private communications system which consists of a wide variety of features provided by central office software and extended to the	Yes	431

	customer's premises via local distribution facilities.		
Digital Data Service	Sub-T-1 Facilities - Provides a 4 wire synchronous circuit at rates of 2.4, 4.8, 9.6, 56, 64 Kbps. It may be provided either hubbed or non-hubbed.	Yes	431
Direct Broadcast Satellite (DBS)	Direct Broadcast Satellite (DBS) is a digital system that uses satellite to transmit TV programs to its subscribers. The transmitted signals are received using individual roof top antennas. Program reception of the subscriber is limited to those channels broadcast by a specific provider.	No (Revised 2/25/98)	431
Distance Learning	A service that utilizes video and audio technologies allowing students who are remotely located from other students, or the lecturer to participate interactively with the class, and is eligible if provided as a telecommunications service.	Conditional	437
	Monitors	No	460
	Video Cameras	No	460
	Video CODEC (see Video Conference Section)	No	460

Fractionalized T-1	Provides a data rate between 56Kbps (DS-0) and 1.544 Mbps. It is typically used for LAN interconnection, video conferencing, high-speed mainframe connection and computer imaging. It is typically provided on four-wire copper circuits.	Yes	437
Frame Relay Service	A form of packet switching utilizing smaller packets and requiring less error checking than more traditional forms of packet switching. A frame-based technology for the transfer of protocol-oriented data, frame relay is characterized by connection-oriented services up to 50 Mbps.	Yes	437
	UNI Link - Port, Channel Termination and Mileage	Yes	437
	NNI Link - Port, DS1CT Connection, Permanent Virtual Connection (PVC)	Yes	437
High Capacity Service	Digital transmission links with capacities of 1.544 Mbps to 274.176 Mbps. As an example: T-1s use two pairs of normal twisted wires and provide 24 voice channels, each one digitized at 64 Kbps. It is typically used to connect networks across remote distances.	Yes	437
Homework Hotline Service	This service typically provides a toll free telephone number for students to contact the school regarding questions on homework. The service is eligible as a telecommunications	Yes	444

	service. If the service is provided as a voice mail service, the voice mail service is ineligible. Additionally, only that portion of the service located at the school/classroom eligible. Elements of the service located at, or originating from the student location are ineligible. See Footnote 4 and SLC Board Position Statement on page 1.		
ISDN	Primary Rate (ISDN PRI) Provides the ISDN equivalent of a T-1 circuit. The Primary Rate Interface provides 23B+D running at 1.544 Mbps.	Yes	437
	Basic Rate ISDN (ISDN BRI) Provides 2B+D over either one or two pairs.	Yes	437
POTS	Plain Old Telephone Service (basic service) Single Party Service Dual Tone Multi frequency (DTMF) signaling or equivalent Voice grade access to the public switched network Access to 911, or Enhanced 911 Access to operator services, interexchange service, directory assistance	Yes	FCC Q & A. Public Notice July 2, 1997 Q. 6
Programed	A channel for the transmission of complex	Yes	437

Audio Service	signal voltage that is typically used for radio broadcasting, noncommercial educational audio and wired music.		
Satellite Services	When provided by a telecommunications provider, or to access the Internet. Use of satellite services to participate in academic symposiums or lectures and for access to the Internet at local calling rates is eligible.	Yes	562 624 748
Shared POTS	Same as POTS, except the service is shared between two entities. As an example, a telephone line may be shared between a parochial school and the church administrative offices. Only that portion of the service relating to the school would be eligible.	Conditional	437
Sub-voice Grade Facilities	Such as telegraph channel service.	Yes	437
Toll Charges	Additional to POTS or basic service.		
	Intrastate	Yes	431
	Interstate	Yes	431
	International	Yes	431

Unlicensed Spread Spectrum	When provided by a telecommunications provider. The use of "Unlicensed National Information Infrastructure (U-NII)" devices will make a host of wireless services available to schools and libraries.	Yes	395
Video Service	A channel with one-way transmission capability for standard 525 line/60 field monochrome, or National Television Systems Committee color, video signal an one or two associated 5 or 15 kHz audio signals. Video Service is considered an eligible service, so long as the service is provided as a commercially available telecommunications service.	Yes	431
Wireless Services	Cellular	Yes	748 FCC Q&A Public Notice July 2, 1997
	Personal Communications Services	Yes	FCC Q&A Public Notice July 2, 1997
	Paging Services	Yes	FCC Q&A Public Notice July 2, 1997
INTERNAL CONNECTIONS			

Internal connections are a component of the institution's internal connections only if that piece of equipment is necessary to transport information all the way to the individual classroom. They are connections between or among multiple instructional buildings that comprise a single school campus or multiple non-administrative buildings that comprise a single library branch, but do not include connections that extend beyond that single school campus or library branch.

(Paragraphs 451, 452, 455, 458, and 460 & Fourth Order on Reconsideration Paragraph 210)

Asbestos Removal		No	460
Cable	See Wiring, Internal	Yes	450 458
Data Equipment	Including, but not limited To: Channel Banks, Digital Cross Connects, Hubs and Network File Servers (Including Necessary Software),(see Personal Computer)	Yes	458 460
	Channel Service Unit (CSU)/Data Service Unit (DSU) A device to terminate a digital channel at a customer premises. It performs certain line coding, line conditioning and equalization functions, and responds to loopback commands sent from the telephone company central office. A CSU sits between the digital line entering the customer premises from the central office and devices such as channel banks or data communications devices.	Yes (Revised 2/25/98)	460
	Modems	No	460
	Routers Routers are switching devices that can act as an interface between two	Yes	460

	networks and connect different segments such as departments or floors in a building. Functionally, routers select the routing path for traffic, may provide network management capabilities, such as load balancing and provide trouble shooting diagnostic capabilities.		
Electrical System Upgrades		No	FCC Q&A Public Notice July 2, 1997
Electronic Mail Service	Electronic ("e") mail services provide the transmission of simple text messages and other messages containing embedded voice messages, spreadsheets and images.	Yes	444
FAX Machines		No	459
Local Area Network (LAN)	A LAN is a short distance data communications network used to link together computers and peripheral devices under some form of standard control. The LAN is most often connected by customer provided links, or telecommunications paths within the same building. The LAN must meet the definition of internal connections which is defined as necessary to transport information all the way to individual classrooms.	Conditional	458 459 460 Fourth Recon. Order 208 209 210
LAN Switch	See Router under Data Equipment	Yes	460

Maintenance & Installation	Installation Labor & Maintenance Agreement (contract) fees Includes the charges incurred for the installation and contractual maintenance of eligible telecommunications services and internal connections. No personnel costs incurred by schools and libraries will be eligible for discounts.	Yes	450, 451 452, 460
	Maintenance performed on a Time and Material basis Includes the charges incurred with maintenance performed on eligible telecommunications services and internal connections.	Yes	450, 451 452, 460
Multiplexing	A multiplexer is electronic equipment that allows two or more signals to pass over one communications, or bearer circuit. The "circuit" may be a telephone line, dedicated line, microwave circuit, or a through-the-air TV signal. It provides an economic means for the service provider and customer to transport multiple circuits by combining, as an example, up to 24 voice grade circuits on a single bearer circuit. If provided as part of internal connections for a local area network it is eligible. If provided as part of a wide area network, it must meet the rules governing WANs.	Conditional	437 444
Network Management Systems	A system of equipment used in monitoring, controlling and managing a data communications network. The system may contain elements such as CRT displays and	No	460

printers, circuitry for diagnostics and reconfiguration of channels, generally housed in an operator console.

Personal Computer		No	460
Hardware	Hub and Router - see Router under Data Equipment	Yes	460
	File Server A file server is a device on a Local Area Network (LAN) which "serves" files to everyone on that LAN. It is typically a combination of computer, data management software, and large hard disk drive. It allows the user to store information, leave electronic mail messages for other users on the system and access application software on the file server. The file server is eligible, but if built to provide a storage function to supplement personal computers on the network, the price associated with the storage function is ineligible for discounts.	Yes	460 461
	Network Interface Card (NIC) An electronic circuit connecting a workstation to a network. Usually a card that fits into one of the expansion slots inside a personal computer. It works with the network software and computer operating system to transmit and receive messages on the network.	No	460
	Printer, Power Strips, Uninterruptible Power Supplies	No	460
Software	Only when required for file server operations.	Yes	458 497
	Application Software		
	Browser ⁵	No	445
	Mail	No	444

	Fire Wall Key Word	Conditional No	460, 444 460
System Improvements and Upgrades	Improvements/upgrades to eligible services are eligible for discounts. Memory upgrades, for example, to computers that act as routers, switches or hubs to transmit information to or from classrooms or libraries are eligible.	Yes	460 497 572
Private Branch Exchange (PBX) (wired & wireless)	A switching system, either manual or dial, usually serving an organization such as a business company or a government agency and usually located on the customer's location. The PBX provides internal station to station dialing and optional access to the public switched network.	Yes	458 460
Video Conference Equipment	CODEC (coder/decoder) Modem A device comprising an encoder and decoder in the same equipment. The CODEC produces a coded output and compresses and decompresses audio and video signals.	No	460
	Group & Desktop	No	460
	Enhanced Multimedia Interface (EMMI) The EMMI is an interface that gives PC and workstation users on ATM networks the ability to send and receive full-motion, high quality video, CD-quality stereo and high speed data. Signals are transformed into ATM cells and transported optically, using the Synchronous Optical Network (SONET) standard.	No	458 460
	Room Design Consulting/System Integration (Normally, these charges would be incorporated into the cost of the service	No	460

	which would be eligible.)		
	Media Retrieval Equipment Media retrieval equipment is used to capture and record video signal. The system includes a computer, controller for record and playback function and imaging and system control software. The system acquires, digitizes and records video on disk for future use and viewing. The storage device is generally a computer hard drive.	No	458
	Televisions and Video Recorders	No	458 460 461
Test Equipment		No	460
Voice Mail Service	Voice Mail is a service which allows the user to receive, edit and forward messages to one or more voice mailboxes.	No	444
Wireless PBX Adjunct	An adjunct that functions in conjunction with a Private Branch Exchange, to provide wireless capability to the station end.	Yes	458 460
Wiring, Internal	Including, but not limited to: cable (copper/fiber/coax), bays, jacks, blocks, panels, and terminals. Included in this category is all wiring and cable necessary to transport	Yes	458 459

information all the way to individual classrooms.

	Conduit Conduit as a means for housing internal connections to operate a local area network is eligible for discounts. This means that the physical casing (known as conduit), and its installation and maintenance, is eligible for discounts, provided that the conduit is used to house facilities that meet the definition of internal connections. Conduit located inside an eligible entity's building (school or library) as well as conduit between eligible buildings located on a single campus (not crossing a public right of way) is eligible for discounts.	Conditional (Revised 2/03/98)	459
ACCESS TO THE INTERNET			
Internet Access	Bundled Access to the Internet Only when there is minimal content and it is the most cost effective means of securing non-content access to the Internet than other non-content alternatives.	Yes Yes	445 445
Internet Training		No	FCC Q&A Public Notice July 2, 1997
MISCELLANEOUS			
Personnel Costs	Personnel costs for various eligible services incurred by an eligible entity are ineligible for discounts.	No	437

- 1 Federal-State Joint Board on Universal Service, CC Docket No. 96-45, Report and Order, 12 FCC Rcd 8776 (1997). ERRATA released 6/04/97 and 12/24/97.
- 2 Eligible schools and libraries should receive discounts of between 20 and 90 percent on all telecommunications services, Internet access and internal connections provided by telecommunications carriers.
- 3 Eligible schools and libraries will be permitted to apply their relevant discounts to information services provided by entities that consist of:
 - (i) the transmission of information as a common carrier;
 - (ii) the transmission of information as part of a gateway to an information service, where that

transmission does not involve the generation or alteration of the content of information but may include data transmission, address translation, protocol conversion, billing management, introductory information content, and navigational systems that enable users to access information services that do not affect the presentation of such information services to users; and (iii) electronic mail services [e-mail].

- Formal position statement adopted by the Schools and Libraries Corporation Board of Directors on November 20, 1997.
- Browsers are provided by Internet Providers. Software additional to that provided in a Bundled Access to the Internet are not subject to discount. (Paragraph 445)
- A method of protecting one network from another untrusted network. The actual mechanism whereby this is accomplished varies widely, but in principle, the firewall can be thought of as a pair of mechanisms: one which blocks traffic and another which permits it. Firewalls are eligible if provided as a component of the file server.

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