



PUBLIC NOTICE

Federal Communications Commission
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JUL 27 2006

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FCC 06-109
Released: July 21, 2006

PLEADING CYCLE ESTABLISHED FOR ELIGIBLE SERVICES LIST FOR UNIVERSAL SERVICE MECHANISM FOR SCHOOLS AND LIBRARIES

CC Docket No. 02-6

Comment Date: August 4, 2006
Reply Comment Date: August 14, 2006

On December 23, 2003, the Commission adopted a rule that formalizes the process for updating the eligible services list for the schools and libraries universal service support mechanism.¹ Under this rule, the Universal Service Administrative Company (USAC) is required to submit annually a draft eligible services list for the following funding year. The rule also requires that the Commission issue a Public Notice seeking comment on USAC's proposed eligible services list. Finally, at least 60 days prior to the opening of the window for the following funding year, the rule requires the Commission to issue a public notice attaching the final eligible services list for the upcoming funding year.

We hereby seek comment on USAC's attached proposed eligible services list. We emphasize that USAC's description of eligible services is being proposed for the sole purpose of informing potential schools and libraries program beneficiaries of the specific products and services that may be eligible to receive discounts under the Schools and Libraries Support Mechanism pursuant to section 254. We also emphasize to commenters that this proceeding is limited to determining what services are eligible under the Commission's current rules; it is not intended to be a vehicle for changing any eligibility rules.

Pursuant to sections 1.415 and 1.419 of the Commission's rules, 47 CFR §§ 1.415, 1.419, interested parties may file comments and reply comments on or before the dates indicated above. Comments may be filed using: (1) the Commission's Electronic Comment Filing System (ECFS), (2) the Federal Government's eRulemaking Portal, or (3) by filing paper copies. See *Electronic Filing of Documents in Rulemaking Proceedings*, 63 FR 24121 (1998).

- **Electronic Filers:** Comments may be filed electronically using the Internet by accessing the ECFS: <http://www.fcc.gov/cgb/ecfs/> or the Federal eRulemaking Portal: <http://www.regulations.gov>. Filers should follow the instructions provided on the website for submitting comments.
 - For ECFS filers, if multiple docket or rulemaking numbers appear in the caption of this proceeding, filers must transmit one electronic copy of the comments for each docket or

¹ See 47 C.F.R. § 54.522. See also *Schools and Libraries Universal Service Support Mechanism*, CC Docket No. 02-6, Third Report and Order and Second Further Notice of Proposed Rulemaking, 18 FCC Rcd 26912, 26929, para. 40 (2003).

rulemaking number referenced in the caption. In completing the transmittal screen, filers should include their full name, U.S. Postal Service mailing address, and the applicable docket or rulemaking number. Parties may also submit an electronic comment by Internet e-mail. To get filing instructions, filers should send an e-mail to ecfs@fcc.gov, and include the following words in the body of the message, "get form." A sample form and directions will be sent in response.

- Paper Filers: Parties who choose to file by paper must file an original and four copies of each filing. If more than one docket or rulemaking number appears in the caption of this proceeding, filers must submit two additional copies for each additional docket or rulemaking number.

Filings can be sent by hand or messenger delivery, by commercial overnight courier, or by first-class or overnight U.S. Postal Service mail (although we continue to experience delays in receiving U.S. Postal Service mail). All filings must be addressed to the Commission's Secretary, Office of the Secretary, Federal Communications Commission.

- The Commission's contractor will receive hand-delivered or messenger-delivered paper filings for the Commission's Secretary at 236 Massachusetts Avenue, NE., Suite 110, Washington, DC 20002. The filing hours at this location are 8:00 a.m. to 7:00 p.m. All hand deliveries must be held together with rubber bands or fasteners. Any envelopes must be disposed of before entering the building.
- Commercial overnight mail (other than U.S. Postal Service Express Mail and Priority Mail) must be sent to 9300 East Hampton Drive, Capitol Heights, MD 20743.
- U.S. Postal Service first-class, Express, and Priority mail should be addressed to 445 12th Street, SW, Washington DC 20554.

Documents in the proceeding are available for public inspection and copying during business hours at the FCC Reference Information Center, Portals II, 445 12th St. SW, Room CY A257, Washington, DC 20554. The documents may also be purchased from BCPI, telephone (202) 488-5300, facsimile (202) 488-5563, TTY (202) 488-5562, e-mail fcc@bcpiweb.com.

People with Disabilities: To request materials in accessible formats for people with disabilities (braille, large print, electronic files, audio format), send an e-mail to fcc504@fcc.gov or call the Consumer & Governmental Affairs Bureau at 202-418-0530 (voice), 202-418-0432 (tty).

Parties who choose to file by paper also must send three paper copies of their filing to Adrian Wright, Telecommunications Access Policy Division, Wireline Competition Bureau, Federal Communications Commission, 445 12th Street, S.W., Room 5-B540, Washington, D.C. 20554. In addition, commenters must send diskette copies to the Commission's copy contractor, Best Copy and Printing, Inc. (BCPI), Portals II 445 12th Street, Suite CY-B402, Washington, DC 20554.

Pursuant to section 1.1206 of the Commission's rules, 47 C.F.R. § 1.1206, this proceeding will be conducted as a permit-but-disclose proceeding in which ex parte communications are permitted subject to disclosure. For further information, contact Gina Spade or Cara Voth, Telecommunications Access Policy Division, Wireline Competition Bureau at (202) 418-7400, TTY (202) 418-0484.

Action taken by the Commission on July 21, 2006: Chairman Kevin J. Martin, and Commissioners Michael J. Copps, Jonathan S. Adelstein, Deborah Taylor Tate and Robert M. McDowell.

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Schools & Libraries

Eligible Services List Schools and Libraries Support Mechanism for Funding Year 2007

Overall Eligibility Requirements for All Categories of Service:

The Eligible Services List indicates whether specific products or services may be able to receive discounts under the Schools and Libraries Support Mechanism.

The List is organized into four sections that represent the four funding categories established by the Federal Communications Commission plus a Miscellaneous section that is applicable to multiple categories:

[Telecommunications Services](#)
[Internet Access](#)
[Internal Connections](#)
[Basic Maintenance of Internal Connections](#)
[Miscellaneous](#)

In addition, the following sections are provided:

[Additional Reference Information](#)
[Glossary](#), providing additional information about the terms used in this Eligible Services List
[Index](#)

Products and services are either Conditionally Eligible or Not Eligible. Funding may be provided only for eligible products or services to eligible entities for use at eligible locations for eligible purposes. Further conditions for eligibility are indicated in the specific entries of this Eligible Services List.

The USAC website at www.usac.org/sl contains additional information about eligibility requirements, including the documents [Eligible Services Framework](#) (an overview of product and service eligibility), [Educational Purposes](#) (providing additional detail about eligible users and locations), and [Determine Eligibility](#) (indicating the eligibility requirements for schools and libraries).

FCC rules require applicants to select the most cost-effective offering: "In selecting a provider of eligible services, schools, libraries, library consortia, and consortia including any of those entities shall carefully consider all bids submitted and must select the most cost-effective service offering. In determining which service offering is the most cost-effective, entities may consider relevant factors other than the pre-discount prices submitted by providers but price should be the primary factor considered." (47 C.F.R. sec. 54.511(a)).

This version of the Eligible Services List is dated [XXXXXX], 2006. Some eligibility information in this List represents a change from prior funding years and applies to funding requests for Funding Year 2007.

Telecommunications Services

Eligibility Requirements for All Telecommunications Services:

Support may be available for any commercially available telecommunications service that is provided by a telecommunications carrier, that is, one who provides telecommunications on a common carriage basis.

A telecommunications service is "the offering of telecommunications for a fee directly to the public, or to such classes of users as to be effectively available directly to the public..." [47 U.S.C. 153(46)]. Telecommunications is defined as "the transmission, between or among points specified by the user, of information of the user's choosing, without change in the form or content of the information as sent and received" [47 U.S.C. 153(43)].

All telecommunications carriers are required under FCC rules to be a common carrier and to file an FCC Form 499A (*Telecommunications Reporting Worksheet*).

Except as otherwise indicated in this section, support in this funding category is only available for telecommunications services or for services that are an integral component part of a telecommunications service. Support in this category of service is not available for equipment purchases by applicants.

Function	Description
<p>Digital Transmission Services</p> <p><i>(Conditionally Eligible)</i></p>	<p>A telecommunications service that provides transmission from an eligible school or library facility to other locations beyond the school or library is eligible for discount. Digital transmission services used to link local networks are commonly called "<u>wide area networks</u>" (WANs).</p> <p>Eligible digital transmission technologies include, but are not limited to:</p> <ul style="list-style-type: none"> • <u>Asynchronous Transfer Mode</u> (ATM) • <u>DS-1</u>, DS-2, DS-3 • <u>Fiber optics</u> • <u>Frame Relay</u> • <u>Integrated Services Digital Network</u> (ISDN, BRI, PRI) • <u>OC-1</u>, OC-3, OC-12, OC-n • <u>Satellite</u> • <u>Switched Multimegabit Data Service</u> (SMDS) • <u>T-1</u>, T-2, T-3, Fractional T-1 • Wireless <p>Components required as an integral part of a digital transmission service, such as costs of a <u>permanent virtual circuit</u> (PVC), <u>trunk lines</u>, and reasonable installation costs, are</p>

	<p>eligible for discount.</p> <p><u>Eligibility limitations</u> Eligible services may not connect to a residential facility or home.</p> <p>The telecommunications component of a <u>distance learning</u> capability, <u>video service</u>, or <u>interactive television</u> is eligible for discount, but non-telecommunications components, such as a scheduling service or services for creation, maintenance, and storage of content, are not eligible.</p> <p>A "dark fiber" service is not eligible. Dark fiber refers to fiber optic cable for which the service provider has not provided modulating electronics.</p> <p>In addition, services that provide voice, video, or data connectivity exclusively within school or library grounds are not eligible for funding as Telecommunications Services but may be eligible as Internal Connections.</p>
<p>Internet Access Funded in the Telecommunications Services Category</p> <p><i>(Conditionally Eligible)</i></p>	<p>An eligible digital transmission service may be used to connect an eligible location to the Internet or <u>Internet2</u>. However, Internet2 membership dues are not eligible.</p> <p>In addition, some service offerings provide a combination of both Internet Access and Telecommunications Services. For example, a service provider may offer local phone service, long distance service, cellular service, and Internet access for one price. For administrative convenience, such a combined offering, if provided by an eligible telecommunications carrier, may be requested in the Telecommunications Services category of service. Alternatively, funding may be requested as two separate requests, with the price of the offering appropriately allocated between the Telecommunications Services and Internet Access categories.</p> <p>If Internet access is being requested in the Telecommunications Services category, applicants must indicate that Internet access is being sought when filing FCC Form 470. Please note that funding of Internet access in the Telecommunications Services category does not relieve applicants of responsibilities they may have under the <u>Children's Internet Protection Act</u>.</p>
<p>Paging</p> <p><i>(Conditionally Eligible)</i></p>	<p><u>Paging services</u> are eligible when integral, immediate, and proximate to the education of students. Services occurring at eligible locations are presumed to meet this standard, as well as, for example, paging services used by a bus driver delivering students to school, a library staff member in a mobile van, and teachers on field trips.</p> <p><u>Eligibility limitations</u> <u>Text messaging</u> and other services that are not treated as telecommunications services are not eligible in the</p>

<p>Telephone Service</p> <p><i>(Conditionally Eligible)</i></p>	<p>Telecommunications Services category.</p> <p>“Telephone Service” refers to communication that takes place using the public switched telephone network. Costs to subscribe to a telephone service are eligible for discount. Examples of telephone services include:</p> <ul style="list-style-type: none"> • <u>800 service</u> • <u>Cellular service</u> • <u>Centrex</u> • <u>Radio loop</u> • <u>Local phone service</u> • <u>Long distance</u> • <u>Personal communications services (PCS)</u> • <u>POTS</u> (“plain old telephone service”) <p>Various payment options may be used with these eligible services, and phone bills may include billing terms such as <u>flat rate</u>, <u>local measured service</u>, and <u>message rate service</u>. <u>Phone calling cards</u> may be used.</p> <p>Service to an eligible location for educational or library purposes can provide voice communication, fax connections, modem connections, or access to <u>911/E911</u> or <u>alarm systems</u>. However, services that go beyond a telecommunications service, such as monitoring services for 911, E911, or alarm systems, are not eligible.</p> <p>In addition, wireless telephone services outside of a school or library location can be eligible for discount in certain cases. Examples include:</p> <ul style="list-style-type: none"> • Use by a school bus driver while delivering children to and from school. • Use by a library staff person in a library mobile unit van. • Use by teachers or other school staff while accompanying students on a field trip or sporting event. <p>Please note that the above examples of eligible wireless services are limited to telecommunications services and do not include services such as Internet access, e-mail, or other information services.</p> <p><u>Eligibility limitations</u> Services to ineligible locations, such as telephone service to residential facilities, are not eligible for discount. If a telephone service is shared between eligible and ineligible locations, only that portion of the shared service relating to the eligible use and location is eligible.</p> <p><u>Residential telephone service</u> is not eligible except in cases where state or local law or tariffs allow a school or library to receive local service at the residential rates.</p>
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<p>Telephone Service Components</p> <p><i>(Conditionally Eligible)</i></p>	<p>Telephone features indicated in this section are eligible for discount if they are a component part of a telephone service. Generally, this requirement means that these charges will appear on the same bill as the telephone service itself.</p> <ul style="list-style-type: none"> • <u>900/976 call blocking</u> • <u>Custom calling services</u> • <u>Direct Inward Dialing (DID)</u> • <u>Directory assistance charges</u> • <u>Inside wire maintenance plan</u> * • Installation charges • <u>Network access register charges</u> • <u>PIC change charge</u> <p>* An inside wire maintenance plan is eligible as a component part of a telephone service only if charges are minimal.</p>
<p>Voice/Video Over IP (VoIP) Service</p> <p><i>(Not Eligible)</i></p>	<p><u>Voice/Video over IP (VoIP)</u>, IP telephony, and related service offerings all employ a technology to transmit voice conversations or video over a data network using the Internet Protocol.</p> <p>IP-enabled services are the subject of an open proceeding at the FCC to determine, among other things, whether certain types are telecommunications services. Pending FCC action with respect to specific services, such services are not eligible for funding. See <i>IP-Enabled Services</i>, Notice of Proposed Rulemaking, 19 FCC Rcd 4863 (2004).</p>
<p>Other Eligible Telecommunications Services</p> <p><i>(Conditionally Eligible)</i></p>	<p>The telecommunications component of voice or video <u>conferencing services</u> that provide a means for multiple users to participate in group discussions can be eligible if the services are limited only to eligible educational or library purposes or if an auditable monitoring system is in place that provides a way to allocate between eligible and ineligible uses.</p> <p>Telecommunications services and voice mail services used to provide a <u>homework hotline service</u> are eligible. For example, a toll-free telephone number for students to contact school regarding questions about homework is eligible. Charges for creation, configuration, or maintenance of content are not eligible.</p> <p>Maintenance and technical support appropriate to maintain reliable operation is eligible for discount when provided as a component of an eligible telecommunications service.</p> <p>Please see the <u>Miscellaneous</u> section of this document for additional entries applicable to Telecommunications Services, such as charges for installation and configuration.</p>
<p>Ineligible Telecommunications Services</p>	<p>Services not included in this Eligible Services List are presumed to be not eligible. In addition to components indicated in other sections of this Eligible Services List, the following services are</p>

(Not Eligible)

NOT ELIGIBLE for discount:

- 900 /976 charges
- Direct Broadcast Satellite and other broadcast services
- Directory advertising
- Extra costs for directory listings
- Payphone telephone service
- Reverse directory assistance

Text messaging and other services that are not treated as telecommunications services are not eligible in the Telecommunications Services category.

Please see the Miscellaneous section of this document for additional entries applicable to Telecommunications Services. For example, finance charges and termination charges are not eligible.

Internet Access

Eligibility Requirements for All Internet Access Services:

Internet access is an information service. Briefly, an information service is "the offering of a capability for generating, acquiring, storing, transforming, processing, retrieving, utilizing, or making available information via telecommunications...." [47 U.S.C. 153(20)].

Support in this funding category is only available for basic conduit access to the Internet or for services that are an integral component part of basic conduit access. Support in this category of service is not available for content, equipment purchases by applicants, or services beyond basic conduit access to the Internet.

To qualify as Internet access, all services must reach the boundary of public Internet space.

Service Providers for Internet access need not be telecommunications carriers.

Function	Description
<p>E-mail Services <i>(Conditionally Eligible)</i></p>	<p><u>E-mail services</u> provide for the transmission of text messages and other embedded data such as file attachments.</p> <p>A cost-effective Internet-based e-mail service is eligible. Such a service is often included in the cost of basic conduit access to the Internet or, if cost-effective, may be provided at a separate cost, either as a fixed charge and/or on a per user or other basis.</p> <p>Some e-mail services may include substantial ineligible features, such as calendaring functions, collaboration tools, and services to ineligible users. Funding is limited strictly to the eligible e-mail portion. Any <u>cost allocation</u> must be based on tangible information that provides a reasonable and appropriate delineation between the eligible and ineligible components.</p>
<p>Internet Access <i>(Conditionally Eligible)</i></p>	<p><u>Internet access</u> provides a communication path to and from the world-wide information resource of the Internet, such as access to Internet-based e-mail and the World Wide Web.</p> <p>Basic conduit access to the Internet is eligible regardless of technology platform. Access technologies include but are not limited to:</p> <ul style="list-style-type: none"> • Telephone dial-up • T-1 lines

	<ul style="list-style-type: none"> • <u>Digital Subscriber Line (DSL)</u> • <u>Cable Modem</u> • Wireless <p>Eligible Internet access may include features typically provided for adequate functionality and performance when provided as a standard component of a vendor's Internet access service. Such features may include <u>Domain Name Service</u>, <u>Dynamic Host Configuration Protocol</u>, and <u>firewall</u> protection against unauthorized access.</p> <p>A wireless Internet access service is eligible under the same provisions as wired access to the Internet if the wireless service is the most cost-effective means of accessing the Internet or obtaining Internet-based e-mail at eligible locations.</p> <p>Wide Area Network facilities can be eligible for funding as a part of Internet access if the service is limited to basic conduit access to the Internet and the offering is the most cost-effective means of accessing the Internet. However, a "dark fiber" service is not eligible. Dark fiber refers to fiber optic cable for which the service provider has not provided modulating electronics.</p> <p><u>GSP fees</u> necessary to obtain Internet access are eligible.</p> <p><u>Eligibility limitations</u> Services must be limited to basic conduit access to the Internet. The following services are NOT ELIGIBLE:</p> <ul style="list-style-type: none"> • Point-to-point connectivity of data, video, or voice applications that are to be provided only by eligible telecommunications carriers. • Charges for Internet content. • Specialized services that go beyond basic conduit access to the Internet, such as Virtual Private Network services or Voice over IP (VoIP) services. <p>A wireless Internet access service designed for portable electronic devices may be funded only if an auditable monitoring system is in place that provides a way to allocate between eligible and ineligible uses. Operation outside of school or library grounds is not eligible.</p>
<p>Internet Content</p> <p><i>(Not Eligible)</i></p>	<p><u>Internet content</u> involves charges for the creation or display of information or separate, additional charges for limited-access information.</p> <p>Costs attributable to the creation or modification of information, such as a <u>web site creation fee</u> or content maintenance fee, are not eligible.</p> <p>Additional charges to access Internet content are not eligible.</p>

	<p>Software, services, or systems used to create or edit Internet content are not eligible.</p>
<p>Web Hosting <i>(Conditionally Eligible)</i></p>	<p><u>Web Hosting</u> provides a school or library website at an external location outside of the school's or library's premises. A cost-effective web hosting service is eligible. Such a service is often included in the cost of basic conduit access to the Internet or, if cost-effective, may be provided at separate cost.</p> <p><u>Domain name registration</u> necessary for the creation of a school or library website is eligible for discount.</p> <p>Funding is limited strictly to the eligible web hosting function. Some web hosting services may include substantial ineligible features, such as software applications and content editing features. Funding will not be provided for such features. Any <u>cost allocation</u> must be based on tangible information that provides a reasonable and appropriate delineation between the eligible and ineligible components.</p>
<p>Other Eligible Internet Access Services <i>(Conditionally Eligible)</i></p>	<p>Maintenance and technical support appropriate to maintain reliable operation is eligible for discount when provided as a component of an eligible and cost-effective Internet access service.</p> <p>Please see the <u>Miscellaneous</u> section of this document for additional entries applicable to Internet access, such as charges for installation and configuration.</p>
<p>Ineligible Internet Access Services <i>(Not Eligible)</i></p>	<p>Services not included in this Eligible Services List are presumed to be not eligible. In addition to components indicated in other sections of this Eligible Services List, the following services are NOT ELIGIBLE for discount:</p> <ul style="list-style-type: none"> • <u>Internet2</u> access or fees. • Training in the use of the Internet. • Costs for training provided via the Internet. • Services that go beyond basic conduit access to the Internet. <p>Separate pricing for the following components when not included in the standard configuration of an Internet access service is NOT ELIGIBLE:</p> <ul style="list-style-type: none"> • <u>Caching service</u> • <u>Content filtering service</u> • <u>Web Casting</u> <p>Please see the <u>Miscellaneous</u> section of this document for additional entries applicable to Internet access. For example, finance charges and termination charges are not eligible.</p>

Internal Connections

Eligibility Requirements for All Internal Connections:

Internal Connections are components located at the applicant site that are necessary to transport information to eligible locations.

Components at the applicant site are eligible only if they are an essential element in the transmission of information within the school or library. The components must be necessary to transport information all the way to individual classrooms or public areas of a library.

Internal Connections do not include services that extend across a public right-of-way beyond the school or library facility.

Funding for Internal Connections is subject to the provisions of the "Two-in-Five Rule."

Function	Description
<p>Cabling/ Connectors</p> <p><i>(Conditionally Eligible)</i></p>	<p><u>Cabling, connectors</u>, and related components used for eligible voice, video, and data transmission within an eligible location are eligible for discount. Eligible components include:</p> <ul style="list-style-type: none"> • Cable (e.g., copper, fiber, coax, twisted pair) • Connectors and <u>couplers</u>. • Jacks, panels, <u>faceplates</u> and <u>wire managers</u>. • <u>Conduit and raceway</u>. • Other cabling components necessary to transport information all the way to individual classrooms or public areas of a library. <p><u>Consumable components</u> are eligible only when included as part of the original installation of eligible components. Consumable kits which contain installation tools are not eligible.</p> <p><u>Eligibility limitations</u> Wiring and components providing electrical service or for radio or television broadcast or cable services are not eligible. If cabling or cabling components are used for both eligible and ineligible purposes, the cost of the ineligible portion must be <u>cost allocated</u>.</p>
<p>Circuit Cards/ Components</p> <p><i>(Conditionally Eligible)</i></p>	<p><u>Circuit cards</u> and related components, such as <u>memory modules and Random Access Memory (RAM)</u>, are eligible if they are necessary for adequate performance of an eligible component, such as an eligible PBX, router, or server.</p> <p><u>Network interface cards (NICs)</u> that are separately priced or used in eligible equipment are eligible. However, network interface cards that are embedded in ineligible equipment (such as end-user equipment) or included in the pricing for ineligible equipment are not eligible.</p>

	<p>Processors and <u>processor terminator cards</u> are eligible if used in an eligible component.</p> <p><u>Phone modems</u> can be eligible if used with an eligible file server or other eligible device for providing remote dial-in network access, if the remote access is limited to connections from eligible locations. Phone modems are not eligible if provided in or with end-user equipment, or if used to provide dial-in access from ineligible locations such as homes or other non-school or non-library sites.</p>
<p>Data Distribution</p> <p><i>(Conditionally Eligible)</i></p>	<p>Components used to distribute information from telecommunication or Internet access facilities all the way to individual classrooms or public areas of a library are eligible.</p> <p>Such components may include:</p> <ul style="list-style-type: none"> • <u>Access Point</u> • <u>Hub</u> • <u>Multiplexer</u> • <u>Network Switch</u> • <u>Router</u> <p><u>Voice/Video over IP (VoIP) components</u> are eligible as Internal Connections. However, a <u>VoIP service</u> is not eligible in the Telecommunications Services or Internet Access funding categories.</p> <p>Components such as those indicated above are typically configured into a <u>local area network</u> or <u>wireless local area network</u>.</p>
<p>Data Protection</p> <p><i>(Conditionally Eligible)</i></p>	<p>Data protection components are used to ensure the continued operation of eligible equipment by protecting equipment and computer files from environmental or security hazards. The following components are eligible if used to provide basic and reasonable measures for data protection:</p> <ul style="list-style-type: none"> • <u>Firewall</u> • <u>Proxy Server</u> • <u>Tape Backup</u> • <u>Virtual Private Network (VPN) Components</u> <p>An <u>Uninterruptible Power Supply (UPS)</u> that protects eligible equipment is eligible as a data protection component, but no funding will be provided for UPS systems that can provide continued backup power for substantial periods in excess of that necessary for basic power protection.</p>

	<p>The following components used for the reliable operation of a UPS are eligible:</p> <ul style="list-style-type: none"> • UPS Interface Expander—which allows a UPS to provide power management to multiple devices. • Relay I/O Module—which establishes UPS protection for equipment not pre-designed for a UPS interface. <p><u>Eligibility limitations</u> The following components are NOT ELIGIBLE:</p> <ul style="list-style-type: none"> • <u>Lightning Arrestors</u> • <u>Surge Protectors</u> • <u>Disaster Recovery</u> • <u>Environmental Monitoring components</u> • Products and services that go beyond basic and reasonable data protection
<p>End-user Equipment (Not Eligible)</p>	<p>Components that are operated directly by end-users are NOT ELIGIBLE. Examples include:</p> <ul style="list-style-type: none"> • <u>Computer workstations</u> • End-user telephone sets • <u>Fax machines</u> • Cameras • Microphones • Videotape recorders • <u>Personal digital assistants (PDA's)</u> • <u>CD or DVD players</u> • <u>Pagers</u> • <u>Printers</u> • <u>Two-way radios</u>
<p>Interfaces, Gateways, Antennas (Conditionally Eligible)</p>	<p>Interfaces, gateways, and antennas represent miscellaneous components that are eligible when used to transport telecommunications or Internet access information all the way to individual classrooms or public areas of a library.</p> <p>The following components are generally eligible:</p> <ul style="list-style-type: none"> • <u>Bridge</u> • <u>Cable Modem</u> (but not for receipt of cable TV service) • <u>Channel Service Unit/Data Service Unit (CSU/DSU)</u> • <u>Copper-to-Fiber (TX-to-FX) converter</u> • <u>FRAD</u> • <u>Gateway</u> • <u>Interface/Edge Device</u> • <u>Network Interface Device</u> • <u>Media Converter</u> • <u>Terminal Adapter</u> • <u>Transceiver</u> • <u>Voice/Fax network module</u>

	<p><u>Antennas</u> and related components, such as <u>satellite dishes</u> used for eligible purposes, are eligible for discount if they are priced separately on a contract or are sold separately. Antennas embedded in ineligible equipment such as computer workstations are not eligible.</p> <p><u>Eligibility limitations</u> Antennas and other components used for the receipt of over-the-air radio and television broadcast signals or for radio signals from cable television operators are not eligible.</p> <p>While antenna <u>masts</u> that support eligible Internal Connections are eligible, large antenna towers are not eligible as Internal Connections.</p>
<p>Servers (Conditionally Eligible)</p>	<p>Computers used as <u>servers</u> or similar centralized functions are eligible if the use is necessary to transport information all the way to individual classrooms or public areas of a library.</p> <p>A server can be eligible or not eligible, depending on how it is used. An eligible server must serve as a conduit for information rather than as a source for content. Servers typically provide multiple functions. If servers are used for both eligible and ineligible purposes, the cost of the ineligible portion must be <u>cost allocated</u>. The following uses are eligible:</p> <ul style="list-style-type: none"> • <u>DHCP (Dynamic Host Configuration Protocol)</u> • <u>DNS (Domain Name Server)</u> • <u>E-mail</u> • <u>Firewall or Proxy Server</u> <p>The following servers are eligible only in certain cases:</p> <p><u>Remote Access Components</u>— Eligible if steps are taken to ensure that remote access is limited to connections from eligible locations. Remote access cannot be provided to homes or other non-school or non-library sites.</p> <p><u>Terminal Server</u>— Eligible to the extent that the use meets the other eligible server types indicated in this section but not eligible as a source for ineligible software applications or other ineligible uses.</p> <p><u>Web Server</u>— Eligible if used to provide content to users of the Internet but not eligible as a source for software applications, database functions, or storage of end-user files.</p> <p>One <u>monitor</u> per eligible server or other eligible component requiring a visual display is eligible for discount. However, special-purpose devices, such as large screen monitors, are not eligible.</p> <p>A <u>KVM switch</u> ("keyboard-video-mouse" switch) is eligible if cost-effective in comparison to the individual components that would otherwise be necessary.</p>

	<p>The following uses are NOT ELIGIBLE:</p> <ul style="list-style-type: none"> • Storage of application software, databases accessed by end users, or end-user files other than e-mail files. • End-user <u>personal computers and workstations</u>, even if the device also provides server functionality. <p>In addition, a <u>caching</u> server and print server are not eligible. However, caching and print server features provided by the core network operating system may be utilized if the principal function of the server is for other purposes that are eligible.</p> <p>A <u>laptop or notebook computer</u> is presumed to be not eligible for discount because a laptop computer is most typically used as an end-user workstation, which is not eligible.</p>
<p>Software <i>(Conditionally Eligible)</i></p>	<p>Software refers to the detailed instructions that operate a computer, distinct from the computer hardware.</p> <p><u>Operating system software</u> required for an eligible component is eligible, including functionality provided with the core operating system at no cost. Additional software products available separately that provide optional operational features are not eligible for discount.</p> <p><u>E-mail software</u> that is a server-based, shared product is eligible. If such a software product provides substantial additional functionality that is not eligible, such as database, workflow, or groupware features, only the e-mail portion of the product is eligible and the cost of the ineligible portion must be <u>cost allocated</u>.</p> <p>E-mail software or other eligible components that include content filtering as an integral component part are eligible, but a separately-priced content filtering module or product is not eligible.</p> <p>Software for a server-based, shared <u>voice mail</u> system is eligible.</p> <p><u>Client Access Licenses</u> for eligible software products are eligible, but Client Access Licenses for ineligible software products are not eligible.</p> <p><u>Eligibility limitations</u> The following components are NOT ELIGIBLE:</p> <ul style="list-style-type: none"> • All end-user software • <u>Application Software</u> other than server-based, shared e-mail • <u>Network management</u> software • Operating system software for end-user computers • Security software • Utility software, such as anti-virus software

<p>Storage Devices (Conditionally Eligible)</p>	<p>Storage devices provide electronic data storage on magnetic or other media. Devices include <u>hard disk drives</u>, CD ROM drives, DVD drives, and floppy disk drives.</p> <p>Storage products may be used to store the operating system of an eligible product, such as a network server used for an eligible purpose. (See the entry for <u>Servers</u> for further information.) In addition, storage products may be used for eligible e-mail files.</p> <p>An eligible server or other eligible component that provides a storage product such as a DVD drive as an integral component part at no additional cost is eligible.</p> <p><u>Eligibility limitations</u> Devices used to supplement storage requirements of personal computers on a network are not eligible. For example, storage devices are NOT ELIGIBLE if used to store the following information:</p> <ul style="list-style-type: none"> • End-user files other than e-mail files • Application software • Other ineligible software • Archival information • <u>Caching</u> information <p>Storage devices in end-user components, such as end-user computer workstations, are not eligible.</p> <p>Consumable <u>storage media</u>, such as floppy disks, recordable CD ROM media, and <u>cartridge magnetic tape</u>, are not eligible.</p>
<p>Telephone Components (Conditionally Eligible)</p>	<p>Centralized components that are an essential element in the transport of telephone services within a school or library are eligible. This includes:</p> <ul style="list-style-type: none"> • <u>Private Branch Exchange</u> • <u>Key System</u> • <u>Voice Mail Components</u> • <u>Wireless PBX Adjunct</u> <p>In addition, the following features are eligible:</p> <ul style="list-style-type: none"> • <u>Automatic Route Selection</u> • <u>E911 Reader Board</u> • <u>Voice Compression Module</u> • <u>Voice Interface Card</u> <p>One <u>switchboard or attendant console</u> necessary for operation of each eligible PBX or eligible Centrex telephone service is eligible.</p>

	<p><u>Eligibility limitations</u> End-user <u>telephones</u> and end-user <u>voice mail components</u> such as answering machines are not eligible. In addition, telephone components not essential for the transport of telephone services within the school or library are not eligible (unless included as an integral component of a standard product offering for an eligible product at no additional cost). Such components that are NOT ELIGIBLE include, but are not necessarily limited to, the following:</p> <ul style="list-style-type: none"> • <u>Automatic Call Distribution System</u> • <u>Call Accounting System;</u> • <u>Call Sequencer;</u> • <u>Homework Hotline Equipment</u> <p>An <u>intercom</u> or <u>public address</u> systems is not eligible. However an intercom system that is an integral component of a PBX or other eligible product can be included in the cost of the eligible component.</p>
<p>Video Components <i>(Conditionally Eligible)</i></p>	<p>Centralized <u>video components</u> necessary to transport information all the way to individual classrooms or public areas of a library are eligible. This includes:</p> <ul style="list-style-type: none"> • <u>CODEC / video encoder</u> • <u>Master Control Unit</u> • <u>Multipoint Control Unit</u> • <u>PVBX</u> • <u>Video Amplifier</u> • <u>Video Channel Modulator</u> <p><u>Eligibility limitations</u> End-user video equipment and equipment for the creation of video content is not eligible for discount. Examples include video monitors, televisions, video cameras, and video recorders and playback devices.</p> <p>Equipment that is used to control the programming, distribution, and selection of video content can be eligible if used in the transport of information to individual classrooms or public areas of a library, however such components are not eligible if used in end-user equipment and/or are operated directly by end-users.</p> <p>Components used for the display or distribution of broadcast and cable television signals are not eligible.</p>
<p>Other Eligible Internal Connections Components</p>	<p><u>Documentation</u> in hard copy or electronic form is eligible for discount if it is basic and is provided as part of the purchase of eligible components.</p>

<p><i>(Conditionally Eligible)</i></p>	<p><u>Racks and cabinets</u> are eligible only to the extent that the components they contain are eligible. A surge protector provided as an integral component of a rack or cabinet without separately identifiable cost can be included in the cost of the rack or cabinet, but a separately-priced surge protector is not eligible.</p> <p><u>System improvements and upgrades</u> to eligible components are eligible for discount. Memory upgrades, for example, to eligible servers are eligible, but memory upgrades would not be eligible in end-user workstations.</p> <p>Please see the <u>Miscellaneous</u> section of this document for additional entries applicable to Internal Connections, such as charges for installation and configuration.</p>
<p>Ineligible Internal Connections Components</p> <p><i>(Not Eligible)</i></p>	<p>Products and services are only eligible as Internal Connections if they are an essential element in the transmission of information within the school or library.</p> <p>Products and services not included in this Eligible Services List are presumed to be not eligible. In addition to components indicated in other sections of this Eligible Services List as not eligible, the following components are NOT ELIGIBLE for discount.</p> <ul style="list-style-type: none"> • <u>Asbestos removal.</u> • <u>Broadcast and cable television equipment.</u> • <u>Electrical system upgrades.</u> • Multimedia content, such as encyclopedias on CD ROM, video information, etc., also including <u>multimedia kits.</u> • <u>Spare parts.</u> • External <u>speakers</u> (except when provided at no cost as an integral part of an eligible component). <p>Components that are installed in standby mode, redundant, not active and online, or otherwise not an essential element in the transmission of information within the school or library are not eligible.</p> <p>Please see the <u>Miscellaneous</u> section of this document for additional entries applicable to Internal Connections. For example, finance charges and termination charges are not eligible.</p>

Basic Maintenance of Internal Connections

Basic Maintenance ensures the necessary and continued operation of eligible internal connection components at eligible locations.

Basic maintenance services are generally provided by contract. No funding for a technical support contract will be provided if it includes services that exceed basic maintenance as defined in this section.

All requests in this category are for services to be delivered within the July 1 to June 30 Funding Year.

Maintenance
and Technical
Support of
Internal
Connections

(Conditionally
Eligible)

The following maintenance services are eligible if they are cost-effective and within the limits of basic maintenance as defined in this section:

- Repair and upkeep of eligible hardware
- Wire and cable maintenance
- Basic technical support
- Configuration changes

Necessary basic maintenance services are defined as follows: "but for the maintenance at issue, the connection would not function and serve its intended purpose with the degree of reliability ordinarily provided in the marketplace to entities receiving such services without E-rate discounts."

Basic maintenance is eligible for discount only if it is a component of a maintenance agreement or contract for eligible components. The agreement or contract must specifically identify the eligible components covered, including product name, model number, and location.

Eligibility Limitations

The following products and services are **NOT ELIGIBLE**:

- On-site technical support (i.e., contractor duty station at the applicant site) when off-site technical support can provide cost-effective basic maintenance on an as-needed basis.
- Services such as network management and 24-hour network monitoring.
- Help desks that provide a comprehensive level of support beyond basic maintenance of only eligible components.
- Technical support contracts that are more than basic maintenance.

In addition, software Client Access Licenses are not eligible as

Basic Maintenance. However, Client Access Licenses for eligible software products may be eligible in the Internal Connections funding category.

Eligible basic maintenance does not include services to maintain ineligible equipment, to enhance the utility of equipment beyond the transport of information, or to provide diagnostic services in excess of those necessary to maintain the equipment's ability to transport information.

Services not included in this Eligible Services List are presumed to be not eligible.

Miscellaneous

The service category for entries in this section should reflect the same category as the product or service being installed or obtained--Telecommunications Services, Internet Access, or Internal Connections.

Product Type (Function)	Description
<p>Installation and Configuration</p> <p><i>(Conditionally Eligible)</i></p>	<p>Reasonable costs for installation, activation, and initial configuration of eligible components are eligible if they are part of a contract or bid for those eligible components. Such eligible services may include basic design and engineering costs and basic project management costs if these services are provided as an integral component part coincident with installation.</p> <p>In addition, on-site training is eligible as a part of installation services but only if it is basic instruction on the use of eligible equipment, coincident with and directly associated with equipment installation, and a part of the contract or agreement for the equipment.</p> <p><u>Eligibility limitations</u> Consulting services not directly tied to and coincident with basic installation and configuration of eligible services are not eligible. Services that are NOT ELIGIBLE include but are not limited to the following:</p> <ul style="list-style-type: none"> • Initial planning to determine the technology and/or components to be deployed. • Network architecture design. • Development of technology plans. • Application assistance, program advice, and other activities not tied directly to actual installation and initial configuration of components. <p>In addition, the following components are NOT ELIGIBLE:</p> <ul style="list-style-type: none"> • Labor costs for school and library personnel. • Costs for contractor personnel to operate components. • Costs for <u>network management</u> software, services, and equipment. • <u>Test equipment</u> and tools. • End-user training, such as training of teachers and staff in the use of covered services in their programs of instruction or for professional development. • Construction costs, other than incidental charges to restore a facility to pre-installation conditions.

<p>Miscellaneous Fees and Charges</p> <p><i>(Conditionally Eligible)</i></p>	<p>Fees and charges that are a necessary component of an eligible product or service are generally eligible, including:</p> <ul style="list-style-type: none"> • Change fees • Freight assurance fees • Shipping charges <p>The following fees and charges are eligible only if a contract with a vendor for eligible product or services specifically provides for these costs:</p> <ul style="list-style-type: none"> • Per diem • Travel time <p>Extended warranties and service contracts are eligible only for that portion associated with the relevant funding year. However, a manufacturer's multi-year warranty provided as an integral part of an eligible component without separately identifiable cost can be included in the cost of the component.</p> <p>Lease fees to rent or lease eligible components are eligible if the charges are cost-effective.</p> <p>Taxes, surcharges, and other similar, reasonable charges incurred in obtaining an eligible product or service are eligible. This includes customer charges for universal service fees but does not include additional charges for universal service administration.</p> <p>A reasonable contingency fee is eligible only if it is a regular business practice of the service provider.</p>
<p>Voice Mail Service</p> <p><i>(Conditionally Eligible)</i></p>	<p>A voice mail service allows users to receive voice messages left by telephone callers and may have other features such as message forwarding. Voice mail is an eligible service.</p> <p>A voice mail service is classified as an information service that is distinct from a telecommunications service or Internet access. However, funding requests for a voice mail service may be submitted in the Telecommunications Services category of service if provided by an eligible telecommunications carrier or may be submitted in the Internet Access category of service if provided by any service provider.</p> <p>In addition, voice mail equipment may be requested in the Internal Connections category of service, but funding is not available for end-user products such as answering machines.</p>

Other
Miscellaneous
Ineligible
Components

(Not Eligible)

In addition to components indicated in other sections of this Eligible Services List, the following components are **NOT ELIGIBLE** for discount:

- Interest or finance charges
- Late payment fees
- Performance bond
- Termination charges

Duplicative services are not eligible. Duplicative services are those that deliver the same functionality to the same population in the same location during the same period of time.

Broadcast television, cable television, Instructional Television Fixed Service (ITFS), and satellite television are not eligible for discount.

Creation of software programs or functions such as through computer programming is not eligible.

Products and services not included in this Eligible Services List are presumed to be not eligible.

Additional Reference Information

The Universal Service Administrative Company maintains additional documentation regarding the administration of the Schools and Libraries Support Mechanism at the Schools and Libraries Division website, available at <http://www.usac.org/sl/>. Documents that relate to product and service eligibility include the following:

Overview	The <u>Eligible Services Framework</u> provides an overview of product and service eligibility, including references to additional information.
Eligible Users and Locations	The document <u>Educational Purposes</u> indicates eligible users, eligible uses, and eligible locations for products and services. For example, funding for Internal Connections at separate administrative buildings is limited to certain uses. In addition, the document <u>Determine Eligibility</u> indicates the schools and libraries for which discounts may be provided.
Cost Allocation	If a product or service contains both eligible and ineligible features, an applicant may use cost allocation to provide a fair delineation of the eligible and ineligible components so that partial funding can be provided. Support is not provided for funding requests that require cost allocation if no cost allocation is provided. See the web document " <u>Cost Allocation Guidelines for Products and Services</u> " for additional information.
Ancillary Use	In certain limited cases, funding can be obtained for the full cost of the product or service, even if the component contains a minor, ineligible function. This is described more fully in the document <u>Ancillary Use of Ineligible Components</u> .
30% Rule	The <u>30% Rule</u> indicates that if 30 percent or more of a funding request is found to contain ineligible products or services, the entire funding request will be denied. Applicants should be sure to request funding for only eligible products and services.
Two-in-Five Rule	" <u>Two-in-Five Rule</u> " for Internal Connections indicates that each eligible entity may obtain support for Internal Connections funding requests every two out of five years. This limitation applies only to Internal Connections and not to requests appropriately categorized as Telecommunications Services, Internet Access, or Basic Maintenance of Internal Connections.

Children's Internet Protection Act	Applicants must enforce a policy of Internet safety and certify compliance with the purposes of the Children's Internet Protection Act (CIPA) to be eligible for discounts. See the document Children's Internet Protection Act (CIPA) for further information.
Technology Plans	As indicated in the document Develop a Technology Plan , applicants are required to prepare a Technology Plan, except when an applicant is seeking support for basic telephone service only. Basic telephone service includes single line voice services (Local, Cellular/PCS, and/or long distance telephone service) but does not include other products or services, including PBXs, key systems, and Centrex service.
Prohibited Practices	The Free Services Advisory indicates prohibited practices. Applicants and service providers are prohibited from using Schools and Libraries Program support to subsidize the procurement of ineligible products and services or from participating in arrangements that have the effect of providing a discount level to applicants greater than that to which applicants are entitled.
Wide Area Networks	The Wide Area Network (WAN) Fact Sheet contains additional information about eligibility requirements for Wide Area Network services. For example, reimbursement for up-front infrastructure costs of service providers installing a telecommunications or Internet access service is limited.
Priority 1 Components at the Applicant Site	While components located at the applicant site are generally evaluated for support as Internal Connections, in certain limited cases these components can be considered part of a Priority 1 service—i.e., part of a telecommunications or Internet access service. The document On-premise Priority 1 Equipment provides further details.
Frequently Asked Questions	Frequently Asked Questions about Eligibility of Products and Services contains additional information about product and service eligibility.

Glossary

<p>800 Service (<u>Telephone Service</u>)</p>	<p>800 Service provides toll calling that is paid by the called party rather than the calling party. The name comes from the original Area Code used for all toll-free numbers. Current and future "800 Service" area codes use the convention 8NN, when N is a specific digit, for example 888, 877, and 866.</p>
<p>900/976 Call Blocking (<u>Telephone Service Components</u>)</p>	<p>Call Blocking is a monthly or recurring telephone company charge for the blocking of calls, such as to 900 or 976 numbers. The blocking prevents callers from completing calls to 900 or 976 numbers.</p>
<p>900/976 Charges (<u>Ineligible Telecommunications Services</u>)</p>	<p>"900" is an area code used to reach a wide range of information providers. Examples of the information that may be provided via a 900 number are adult content programming, weather reports, lottery results, or caller voting for various topics such as television polls. 900 Service calls are charged to the party originating the call. Charges for accessing 900 calls are often included in the toll charges on the local telephone bill. 976 service provides a local, pay-per-call telephone service.</p>
<p>911/E911 Trunks/Lines (<u>Telephone Service</u>)</p>	<p>911 and E911 trunks or lines are dedicated telecommunications links specifically or exclusively used for connection between a school/library and a Public Safety Answering Point (PSAP).</p>
<p>Access Point (<u>Data Distribution</u>)</p>	<p>An Access Point is a base station in a wireless LAN. Access points are typically stand-alone devices that may plug into an Ethernet hub or server or may provide a repeater function for wireless networks.</p>
<p>Alarm Telephone Line (<u>Telephone Service</u>)</p>	<p>An alarm telephone line is a telecommunications line specifically dedicated to a school or library burglar or fire alarm system. It may be the equivalent of a POTS line or a dedicated line between the school or library and the alarm company.</p>
<p>Antenna (<u>Interfaces, Gateways, Antennas</u>)</p>	<p>An antenna is a device for transmitting and/or receiving radio frequency signals.</p>
<p>Application Software (<u>Software—Ineligible</u>)</p>	<p>Application software applies to software accessed directly by end users, such as word processors, spreadsheets, utility, anti-virus, and graphics programs.</p>
<p>Asbestos Removal (<u>Ineligible Internal Connections Components</u>)</p>	<p>Some older buildings were constructed using products that contain asbestos, which has been determined to be harmful to health. Renovations and installations in such buildings require special treatment such as asbestos removal.</p>

Asynchronous Transfer Mode (ATM) (<u>Digital Transmission Services</u>)	ATM is a high-speed Digital Transmission Service that can provide bandwidth of 622 Megabits per second or higher.
Automatic Call Distribution System (ACD) (<u>Telephone Components—Ineligible</u>)	An Automatic Call Distribution (ACD) system, typically used with a PBX, provides a means of automatically distributing calls evenly, on a next available agent basis so that productivity is maintained and inbound calls are handled efficiently. The system also allows the monitoring of operation on a real-time basis. Additionally, some systems compile historic reports that enable better utilization of resources in the handling of incoming calls.
Automatic Route Selection (ARS) (<u>Telephone Components</u>)	Automatic Route Selection (ARS) is a PBX and Centrex service that allows for automatic selection of the most efficient and cost-effective route. It may also be referred to as "least cost routing". By using the ARS feature, outgoing phone calls from PBX and Centrex stations are routed to the most cost-efficient service or facilities.
Bridge (<u>Interfaces, Gateways, Antennas</u>)	A bridge is a data communications device that connects two or more network segments, often translating information from one type of network protocol to another.
Broadcast and Cable Television Equipment (<u>Video Components—Ineligible</u>)	Broadcast/cable equipment applies to equipment used in the transmission or receipt of broadcast TV, broadcast radio, broadcast satellite, or cable television service.
Cable Modem (<u>Internet Access</u>) (<u>Interfaces, Gateways, Antennas</u>)	A cable modem is a modem designed for use on a TV coaxial cable circuit and provides a high-speed data path. It can provide high-speed access to the Internet over a cable television line.
Cabling (<u>Cabling/ Connectors</u>)	Cabling refers to the wires or groups of wires capable of carrying voice, video, or data transmissions. Cabling provides electrical (or, in the case of fiber optics, lightwave) connectivity between points.
Caching Components (<u>Servers—Ineligible</u>) (<u>Storage Devices—Ineligible</u>)	Caching is a method that stores recently accessed information. Caching components such as caching servers store information locally so that the information is accessible more quickly than if it must be transmitted across a network from a distant server.
Caching Service (<u>Ineligible Internet Access Services</u>)	A caching service is a special high-speed storage mechanism at the border of a network and the Internet that holds frequently accessed Internet information, thereby reducing retrieval times for information often requested from the Internet.

<p>Call Accounting System (<u>Telephone Components</u>— Ineligible)</p>	<p>A Call Accounting System records information about telephone calls. It can provide comprehensive information about call costs by associating call records with users, phone extensions, or profiles.</p> <p>Such systems may include <u>Station Message Detail Recording</u> (SMDR) or Call Detail Recording (CDR), which are software/hardware PBX components that provide the capability to generate reports on call details such as call duration, PBX station number, time and date, dialed number, and cost of call.</p>
<p>Call Sequencer (<u>Telephone Components</u>— Ineligible)</p>	<p>An Automatic Call Sequencer is a component used with a PBX or Key system. The call sequencer distributes incoming telephone calls among a select number of stations or telephones. Some call sequencers are designed to generate statistical reports on number of calls and how calls were handled.</p>
<p>Cartridge Magnetic Tape (<u>Storage Devices</u>— Ineligible)</p>	<p>Cartridge magnetic tape is used in tape backup devices, and provides replaceable and archivable storage capacity.</p>
<p>CD/ DVD Player (<u>End-user Equipment</u>— Ineligible)</p>	<p>A Compact Disc or Digital Video Disc (CD/DVD) Player is a device that plays or reproduces the music, voice, and/or video from a CD or Digital Video Disc.</p>
<p>Cellular Service (<u>Telephone Service</u>)</p>	<p>Cellular Service uses radio transmissions to provide a wireless telephone service.</p>
<p>Centrex (<u>Telephone Service</u>)</p>	<p>Centrex is a business telephone service that consists of a wide variety of features, such as call forwarding and call transfer, provided by central office software.</p>
<p>Channel Service Unit /Data Service Unit (CSU/DSU) (<u>Interfaces, Gateways, Antennas</u>)</p>	<p>A CSU/DSU is a device that terminates a digital channel at a customer's premises. A CSU/DSU often serves as a demarcation between a local network and wide area network facilities.</p>
<p>Circuit Card (<u>Circuit Cards/ Components</u>)</p>	<p>Circuit cards provide microprocessors, transistors, and other components on a circuit board. Circuit cards often are designed to fit into a slot of a larger component, such as a telephone PBX, router, or computer.</p>
<p>Client Access License (<u>Software</u>)</p>	<p>A Client Access License is a software licensing approach used by some vendors that provides authorization to access a software product.</p>
<p>CODEC / Video Encoder (<u>Video Components</u>)</p>	<p>A CODEC (coder/decoder), also known as a video encoder, is 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.</p>

Conduit and Raceway (<u>Cabling/Connectors</u>)	Conduit and raceway are metal or plastic pipe or channels used to protect cable.
Conferencing Services (<u>Other Eligible Telecommunications Services</u>)	Conferencing Services provide a means for multiple users to participate in group discussions via telephone circuits or video facilities.
Connector (<u>Cabling/Connectors</u>)	Connectors are devices that connect wires or fibers.
Consumable Components (<u>Cabling/Connectors</u>)	Consumables consist of miscellaneous components that are depleted with use, such as tape, splicing materials, labels, and wire wrap.
Copper-to-fiber (TX-to-FX) Converter (<u>Interfaces, Gateways, Antennas</u>)	A Copper-to-fiber converter, also known as a TX-to-FX converter, is a device that converts a copper connection to a fiber optic connection.
Coupler (<u>Cabling/Connectors</u>)	A coupler is a passive device that accepts one input broadband signal and replicates it onto another or multiple outputs.
Custom Calling Services (<u>Telephone Service Components</u>)	Custom calling services extend the features available with telephone service. Features available include (but are not necessarily limited to) call waiting, 3-way calling, speed calling, distinctive ring, and call forwarding.
Digital Subscriber Line (DSL) (<u>Internet Access</u>)	Digital Subscriber Line (DSL) is a technology that provides high-speed access to the Internet over telephone lines. Different types of DSL service are available, using descriptions such as ADSL, HDSL, and SDSL. The DSL family of technologies sometimes goes by the general name xDSL.
Direct Broadcast Satellite (DBS) (<u>Ineligible Telecommunications Services</u>)	Direct Broadcast Satellite (DBS) is a technology that uses satellite to transmit TV programs to subscribers. The transmitted signals are received using individual rooftop antennas. Program reception of the subscriber is limited to those channels broadcast by a specific provider.
Direct Inward Dialing (DID) (<u>Telephone Service Components</u>)	Direct Inward Dialing (DID) service allows outside calls to be directed to a Private Branch Exchange station line without the use of an operator.

Directory Advertising (<u>Ineligible Telecommunications Services</u>)	Directory Advertising is advertising in a telephone directory yellow pages, Internet, or elsewhere. This may be provided by the telephone company or another entity.
Directory Assistance (<u>Telephone Service Components</u>)	Directory Assistance Charges are those charges assessed for calls made to 411 or other Directory Assistance numbers such as (201) 555-1212 for information. Typically charges are assessed on a per call basis.
Directory Listings (<u>Ineligible Telecommunications Services</u>)	A telephone company directory contains an alphabetical listing, by name, of all telephone subscribers except those requesting unlisted or non-published service. Typically, the initial directory listing is provided free of charge to the subscriber, but extra-cost services are available, such as additional listings, unlisted or non-published numbers, and bolded entries.
Disaster Recovery (<u>Data Protection—Ineligible</u>)	Disaster recovery describes a means of restoring service to a computer network that has suffered a disaster. Such costs may include the rental of a site that houses links and equipment that is modeled after the damaged network.
Distance Learning (<u>Digital Transmission Services</u>)	Distance Learning utilizes video and audio technologies to allow students who are remotely located from other students or the lecturer to participate interactively with the class.
Documentation (<u>Other Eligible Internal Connections Components</u>)	Documentation includes support material provided in the form of paper or electronic media. It may include diagrams, blueprints, equipment specifications, or instruction manuals for services and products.
Domain Name Registration (<u>Web Hosting</u>)	A Domain Name indicates an address of location on the Internet. For the e-mail address portion of a symbolic abc@xyz.org, the domain name is xyz.org. Domain Name Registration is the registering of the name and the charge associated with the registration process.
Domain Name System / Domain Name Service (DNS) (<u>Internet Access Servers</u>)	Domain names, such as www.fcc.gov , are alphabetic, so they are easier to remember than the IP addresses on which the Internet is based. A Domain Name System and Domain Name Server translate the alphabetical names input by users into the IP addresses used by Internet devices.
DS-1 (<u>Digital Transmission Services</u>)	DS-1 is a type of Digital Transmission Service, and stands for "Digital Signal, level 1." It operates at a bandwidth of 1.544 megabits per second. Other DS levels—DS-2, DS-3, and DS-4—operate at higher bandwidths.

Dynamic Host Configuration Protocol (DHCP) (<u>Internet Access</u>) (<u>Servers</u>)	Standard networks need each computer to have a unique address for communication to take place. Dynamic Host Configuration Protocol (DHCP) is a system that provides this unique address from a central computer, so that each individual computer does not need to be separately configured.
E911 Reader Board (<u>Telephone Components</u>)	The E911 Reader Board is adjunct hardware for a PBX and is used to access E911 Emergency service.
Electrical System Upgrades (<u>Ineligible Internal Connections Components</u>)	Electrical system upgrades refer to products and services that provide, upgrade, or enhance the provision of electrical power.
E-mail and E-mail Software (<u>Software</u>) (<u>Servers</u>)	E-mail, or electronic mail, is a system for sending text messages and other information across a network. E-mail software provides the functionality for sending and receiving e-mail messages.
E-mail Service (<u>E-mail Services</u>)	E-mail stands for "electronic mail." An e-mail service enables the transmission of messages over a local or world-wide computer network.
Environmental Monitoring Components (<u>Data Protection—Ineligible</u>)	Environmental monitoring components provide information about heat, humidity, or other factors in order to provide a warning system for conditions that may affect the correct operation of equipment. For example, an environmental monitoring card is sometimes available as an optional feature of an uninterruptible power supply and is used to monitor the environmental conditions of a rack, computer room, or data center.
Faceplate (<u>Cabling/Connectors</u>)	A faceplate is a cover that fits over a jack, outlet, or dial.
Fax Machine (<u>End-user Equipment—Ineligible</u>)	A facsimile, or fax, machine is a device in which the image of a document is electronically transferred over the telephone network and printed out elsewhere.
Fiber Optics (<u>Digital Transmission Services</u>)	Fiber Optics is a technology that uses light to transport information and can provide a Digital Transmission Service. Large amounts of data can be transmitted over long distances using thin filaments of glass.
Filtering Service (<u>Ineligible Internet Access Services</u>)	A filtering service protects users from dangerous or inappropriate content most often by selectively blocking certain words or certain Internet sites.

<p>Inside Wire Maintenance Plan (<u>Telephone Service Components</u>)</p>	<p>An Inside Wire Maintenance Plan is a monthly recurring charge that provides for the repair, replacement, and maintenance of customer owned inside-premise wire. Cost of the service is sometimes included in regular monthly bills for local and long distance telephone services.</p>
<p>Integrated Services Digital Network (ISDN) (<u>Digital Transmission Services</u>)</p>	<p>Integrated Services Digital Network (ISDN) is a type of Digital Transmission Service that uses traditional phone lines to transmit digital voice and data over telephone lines. There are two types of service. Basic Rate Interface (BRI) provides a total bandwidth of 144 kilobits per second. Primary Rate Interface (PRI) provides a total bandwidth of 1.544 megabits per second.</p>
<p>Interactive Television (ITV) (<u>Digital Transmission Services</u>)</p>	<p>Interactive TV (ITV) provides a means for a viewer to interact with the television set in ways other than controlling the channel and the volume and handling videotapes. In an education setting, such as in a school, ITV provides a means for teachers and students who are remotely located in different places to conduct a class and to interact with each other. ITV requires a special "set-top box" to be added to the existing television set.</p>
<p>Intercom (<u>Ineligible Internal Connections Components</u>)</p>	<p>An intercom is an internal communication system, originally consisting of multiple speaker/microphone devices connected into an amplifier system. Now most intercoms are a part of telephone systems, although separate intercom systems continue to be used in many schools.</p>
<p>Interface/Edge Device (<u>Interfaces, Gateways, Antennas</u>)</p>	<p>An Interface or Edge Device is a physical device that can pass packets between some types of networks and an <u>Asynchronous Transfer Mode (ATM)</u> network. The device may be a router or Ethernet-to-ATM switch that directly connects to an ATM network.</p>
<p>Internet Access (<u>Internet Access</u>)</p>	<p>Internet access provides a connection to the Internet, which is the publicly available worldwide system of interconnected computer networks that uses agreed-upon technical standards based on the Internet Protocol (IP). Internet access provides a connection to a vast quantity of information and services, such as electronic mail and the documents and features of the World Wide Web.</p>
<p>Internet Content (<u>Internet Content—Ineligible</u>)</p>	<p>Internet Content refers to all forms of information that are available on the Internet, such as text, pictures, sound recordings, animation, and video clips.</p>
<p>Internet2 (<u>Ineligible Internet Access Services</u>)</p>	<p>Internet2 is a consortium of universities, industry, and government for development and deployment of advanced network applications and technologies.</p>

Personal Digital Assistant (PDA) (<u>End-user Equipment</u> — Ineligible)	A Personal Digital Assistant (PDA) is a handheld device that can provide several functions such as calendaring, telephone, and e-mail. Some PDAs have wireless networking features.
Phone Calling Cards (<u>Telephone Service</u>)	Phone Calling Cards generally have the appearance of a credit card and provide a means to make long distance calls from any phone. Charges for the call are subtracted from the calling card balance or are included in the calling card subscriber's monthly phone bill.
Phone Modem (<u>Circuit Cards/ Components</u>)	Phone modems are devices that convert data signals into suitable form for transmission and receipt over a telephone line.
PIC Change Charge (<u>Telephone Service Components</u>)	The Primary Interexchange Carrier (PIC) is the long distance company to which traffic from a given location is automatically routed when dialing 1 in an equal access area. The selection of the carrier is done by the local telephone customer and becomes a part of the telephone company's records for routing long distance calls made from the customer's number. When the PIC is changed from one long distance company to another at the request of the customer, there is a one-time PIC Change Charge assessed by the local telephone company to cover the cost of reprogramming the telephone company central office switch.
POTS (<u>Telephone Service</u>)	"POTS" stands for "Plain Old Telephone Service" and provides local telephone dial-tone service.
Printer (<u>End-user Equipment</u> — Ineligible)	A printer is a device that receives computer information and prints it on paper.
Private Branch Exchange (PBX) (<u>Telephone Components</u>)	A PBX is a centralized telephone switching system located at a business or organization site. The PBX provides internal station-to-station dialing and access to the public switched network.
Processor Terminator Card (<u>Circuit Cards/ Components</u>)	A processor terminator card is a device installed in a multi-processor computer to signal the computer that only one processor is installed.
Proxy Server (<u>Data Protection</u>) (<u>Servers</u>)	A proxy server is a device that sits between "trusted clients" (e.g., workstations inside an organization) and "untrusted clients" (e.g., the Internet) and provides security features and oftentimes address translation. To the untrusted clients, communication appears to be taking place with the proxy, even though the communication is passed to and from the trusted clients.

Memory Module / Random Access Memory (RAM) (<u>Circuit Cards/ Components</u>)	A memory module is the electronic holding place for instructions and data that a computer's microprocessor can reach quickly. The module usually holds multiple Random Access Memory (RAM) chips. Common types are SIMM, DIMM, RDRAM, SDRAM.
Message Rate Service (<u>Telephone Service</u>)	Local telephone companies use several methods to bill for local wireline service, such as Flat Rate, Message Rate, Measured Rate, and Local Measured Service. Message Rate Service provides a certain number of "call units." Various call lengths and distances can use a different number of call units. Calls in excess of the message rate allocation result in additional charges.
Monitor (<u>Servers</u>)	A monitor is the video display unit (television screen) that is used to display information from a computer.
Multimedia Kit (<u>Ineligible Internal Connections Components</u>)	A multimedia kit is a package of hardware and software that adds multimedia capabilities to a computer. A multimedia kit may include a CD ROM or DVD player, a sound card, speakers, and a bundle of CD ROMs.
Multiplexer (<u>Data Distribution</u>)	A multiplexer is electronic equipment that allows two or more signals to pass over one communications circuit. The circuit may be a telephone line, dedicated line, or radio signal. It provides an economic approach for transporting, for example, up to 24 voice-grade lines on a single circuit.
Multipoint Control Unit (<u>Video Components</u>)	A Multipoint Control Unit (MCU) is a bridging or switching device used for multipoint videoconferencing.
Network Access Register (<u>Telephone Service Components</u>)	Used with Centrex service, the Network Access Register (NAR) provides access to and from the telephone company central office. The number of simultaneous calls to and from the public switched telephone network is equal to the number of NARs the Centrex customer subscribes to. NARs also may be used with other eligible telecommunications services, such as Network Access Service and Network Access Register Usage Package.
Network Interface Card (NIC) (<u>Circuit Cards/ Components</u>)	A network interface card (NIC) is an electronic device that connects a workstation, server, or other device to a network. A NIC works with the network software and computer operating system to transmit and receive messages on the network.
Network Interface Device (<u>Interfaces, Gateways, Antennas</u>)	A Network Interface Device (NID) is a component installed between a telephone network and the inside wire of a customer premises. The NID is usually provided by the telephone company and is the transition, or demarcation point, between the company's network and the customer's inside wiring.

<p>Firewall <u>(Internet Access)</u> <u>(Data Protection)</u> <u>(Servers)</u></p>	<p>A firewall is a hardware and software combination that sits at the boundary between an organization's network and the outside world, and protects the network against unauthorized access or intrusions.</p>
<p>Flat Rate <u>(Telephone Service)</u></p>	<p>Flat Rate is a billing method for telephone service that, for a set price per month, provides a user an unlimited number of local calls.</p>
<p>FRAD <u>(Interfaces,</u> <u>Gateways,</u> <u>Antennas)</u></p>	<p>A Frame Relay Assembler/Disassembler (FRAD) is a communications device that breaks a data stream into frames for transmission over a Frame Relay network and recreates a data stream from incoming frames. A Frame Relay router serves the same purpose but provides more intelligence in avoiding congestion.</p>
<p>Frame Relay <u>(Digital Transmission Services)</u></p>	<p>Frame relay is a type of Digital Transmission Service. Frame relay networks in the United States support data transfer rates at T-1 (1.544 Mbps) and T-3 (45 Mbps) speeds.</p>
<p>Gateway <u>(Interfaces,</u> <u>Gateways, Antennas)</u></p>	<p>A gateway is a network device that acts as an entrance to another network and often is used to connect two otherwise incompatible networks.</p>
<p>GSP fees <u>(Internet Access)</u></p>	<p>A Global Service Provider (GSP) provides connection between the Internet service provider's facilities and the global Internet network. In some cases, there can be separate charges for this component of Internet access.</p>
<p>Hard Disk Drive <u>(Storage Devices)</u></p>	<p>A hard disk drive is a storage device that consists of magnetic platters that spin like a record player and magnetic pickup devices, called heads, that are like the needle of a record player. All this is sealed in a vacuum in order to maintain tight tolerances and enhance service life.</p>
<p>Homework Hotline Equipment <u>(Telephone Components—</u> <u>Ineligible)</u></p>	<p>Homework Hotline equipment provides an automated response or call routing system that provides information to callers about school assignments.</p>
<p>Homework Hotline Service <u>(Other Eligible Telecommunications Services)</u></p>	<p>A Homework Hotline Service is typically provided as a toll-free telephone number for students to contact the school regarding questions on homework.</p>
<p>Hub <u>(Data Distribution)</u></p>	<p>Hubs are central connection points for some types of local area networks with interconnecting cabling from many individual devices, such as computer workstations, printers, servers, and other hubs.</p>

Network Management (<u>Software</u> —Ineligible)	Network Management is a system of equipment or software used in monitoring, controlling, and managing a communications network.
Network Switch (<u>Data Distribution</u>)	A switch is a mechanical or electronic device that completes or breaks an electrical path or that selects the paths for communication. More specifically, network switches provide capability similar to a network <u>hub</u> but provide a dedicated bandwidth at each network port, rather than shared bandwidth among all ports.
OC-1 (<u>Digital Transmission Services</u>)	OC-1 stands for "optical carrier 1," which is a Digital Transmission Service that operates at 51.84 Megabits per second. Multiples of this bandwidth are also available, such as OC-3 and OC-12.
Operating System Software (<u>Software</u>)	Operating System software enables the basic operations of a computer system or other electronic device. For example, it can configure the communication paths between memory and storage, and provides basic functions for other software to operate correctly.
Pager (<u>End-user Equipment</u> —Ineligible)	A Pager (also known as a Beeper) is the receiving end of a paging service and is a small device worn on the belt or carried in a handbag. Pagers provide text or voice messages or both.
Paging Service (<u>Paging</u>)	Paging is a service designed to deliver a message to a person whose exact location is unknown. The service employs radio signals that activate a paging receiver carried by the intended recipient to deliver a text, numeric, or voice message.
Payphone Telephone Service (<u>Ineligible Telecommunications Services</u>)	Payphone (or coin) telephone service is provided in a public or semi-public place and requires the use of coins, credit card, pre-paid card, or other means of payment at the time of placing the call.
Permanent Virtual Circuit (PVC) (<u>Digital Transmission Services</u>)	Permanent Virtual Circuits (PVCs) are shared connections between end-points. PVCs play a central role in Frame Relay networks. They're also supported in some other types of networks, such as X.25.
Personal Communications Services (PCS) (<u>Telephone Service</u>)	Personal Communications Services (PCS) is a digital wireless telecommunications service, similar to cellular service, but operating on different radio frequencies.
Personal Computer/ Workstation (<u>End-user Equipment</u> —Ineligible) (<u>Servers</u> —Ineligible)	Personal computers, or workstations, are computers designated or designed as end-user equipment. They may operate in a stand-alone environment or may be connected to a host computer as part of a network. They are differentiated from computers configured as servers that are designed to route information to and from end-user equipment.

Key System (KSU) (<u>Telephone Components</u>)	A Key System, also known as Com Key System or a KSU, is a type of phone system that permits more than one telephone line, PBX extension, private line, or intercom line to appear on a single telephone.
KVM Switch (<u>Servers</u>)	A keyboard-video-mouse (KVM) switch is a switchbox that is used to control two or more computers from a single keyboard, monitor, and computer mouse.
Laptop / Notebook Computer (<u>Servers—Ineligible</u>)	A laptop or notebook computer is a lightweight portable computer designed for mobility.
Lightning Arrestor (<u>Data Protection—Ineligible</u>)	A lightning arrestor is a device that protects equipment from lightning strikes and static.
Local Area Network (<u>Data Distribution</u>)	A Local Area Network (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 cabling or wireless links within the same building. A LAN consists of several components, including cabling, servers, computer workstations, network interface cards, printers, and data distribution equipment, such as network switches, hubs, and routers.
Local Measured Service (<u>Telephone Service</u>)	Local telephone companies use several methods to bill for local phone service, such as Flat Rate, Message Rate, Measured Rate, and Local Measured Service. Local Measured Service typically allows an unlimited number of incoming calls. Outgoing calls beyond a certain threshold result in extra charges.
Local Phone Service (<u>Telephone Service</u>)	Local phone service is a service provided by a local exchange carriers (LEC). Phone lines from homes and businesses terminate at a central office of a LEC, which in turn connects to other local exchanges and to carriers for long distance service.
Long Distance Telephone Service (<u>Telephone Service</u>)	Long distance telephone service is provided by interexchange carriers and provides telephone service outside of a local calling area.
Mast (<u>Interfaces, Gateways, Antennas</u>)	A mast is a pole or structure on which an antenna is placed.
Master Control Unit (<u>Video Components</u>)	A Master Control Unit (MCU) is a device that controls the main operating functions of a video system.
Media Converter (<u>Interfaces, Gateways, Antennas</u>)	A media converter is a module that converts one type of media to another type of media for network compatibility. The actual media can vary, such as fiber, coax, or twisted pair.

Public Address (PA) System (<u>Ineligible Internal Connections Components</u>)	A Public Address system allows the user to make announcements through the use of amplifiers and speakers.
PVBX (<u>Video Components</u>)	A Private Video Branch Exchange (PVBX) is a PBX designed for video information. A PVBX can link classrooms or other locations together and can interconnect end-user and other equipment, such as cameras, monitors, and videocassette recorders.
Racks and Cabinets (<u>Other Eligible Internal Connections Components</u>)	A rack is a metal supporting framework for mounting cables, equipment, and/or wires. A cabinet is an enclosure for equipment, terminating cables, connection devices, and/or wires.
Radio Loop (<u>Telephone Service</u>)	Radio Loop is provided by a local exchange telecommunications carrier and is also called Basic Exchange Telecommunications Radio Service (BETRS). BETRS is used by local telephone companies to provide dial tone to subscribers in certain circumstances, such as when it is either not technically possible or not cost-effective to provide the service by conventional means.
Remote Access Components (<u>Servers</u>)	Remote access components, such as a remote access router or communications server, allow users to access network resources by dialing in from an off-site location in order to connect their local computer with network devices. Dialing in most typically utilizes standard telephone lines but, in some cases, can be based on other technologies.
Residential Telephone Service (<u>Telephone Service</u>)	Residential telephone service is designed for homes and residences, but not commercial establishments.
Reverse Directory Assistance (<u>Ineligible Telecommunications Services</u>)	Reverse Directory Assistance is a service that can use a phone number to provide the name and, in some cases, the address of the owner of that phone number.
Router (<u>Data Distribution</u>)	Routers are switching devices that can act as an interface between two networks and connect different segments, such as departments or floors in a building. Functionally, routers select the routing path for traffic, may provide features such as load balancing, and can provide trouble-shooting diagnostic capabilities.
Satellite Dish (<u>Interfaces, Gateways, Antennas</u>)	A Satellite Dish is an antenna capable of receiving signals from and, in some cases, transmitting signals to a communications satellite.

Satellite Service (<u>Digital Transmission Services</u>)	Satellite service provides communication between points on Earth by using an orbiting satellite as a communications relay point.
Server (<u>Servers</u>)	A server is a computer on a local area network that can provide access to files, software, printers, or other features that are shared among multiple users.
Spare Parts (<u>Ineligible Internal Connections Components</u>)	Spare parts are components on hand to replace hardware that fails.
Speakers (<u>Ineligible Internal Connections Components</u>)	Speakers are the components that provide sound from a computer, phone, intercom, or other device.
Station Message Detail Recording (SMDR) (<u>Telephone Components—Ineligible</u>)	Station Message Detail Recording (SMDR) and Call Detail Recording (CDR) are software/hardware PBX components that provide the ability to generate reports on call details. Those details include, but are not limited to, call duration, PBX station numbers, time and date, trunk route, dialed number, and cost of call.
Storage Media (<u>Storage Devices—Ineligible</u>)	Storage media includes products such as floppy disks and recordable CD ROM that provide replaceable storage.
Surge Protector (<u>Data Protection—Ineligible</u>)	Surge protectors provide electrical AC power outlets with circuitry that protects equipment against voltage spikes and electrical disturbances.
Switchboard and Attendant Console (<u>Telephone Components</u>)	The operation of a PBX or Centrex system may require the use of a switchboard or attendant console for the transfer of incoming calls to the appropriate extension when systems are not equipped with Direct Inward Dialing. The switchboard or attendant console may include Direct Station Selection (DSS), which provides an easy means for transferring calls.
Switched Multimegabit Data Service (SMDS) (<u>Digital Transmission Services</u>)	Switched Multimegabit Data Service (SMDS) is a type of Digital Transmission Service offered by telephone companies that operates at speeds of from 1.544 Megabits per second to 45 Megabits per second or even more.
System Improvements and Upgrades (<u>Other Eligible Internal Connections Components</u>)	A system improvement or upgrade provides enhanced functionality to an existing product or configuration of products.

<p>T-1 (<u>Digital Transmission Services</u>)</p>	<p>T-1, which stands for Trunk Level 1, is a Digital Transmission Service that operates at 1.544 Megabits per second. Greater speeds are available from other Trunk Levels, such as T-2 (6.312 Mbps) or T-3 (44.736 Mbps); slower speeds are known as Fractional T-1.</p>
<p>Tape Backup (<u>Data Protection</u>)</p>	<p>Tape Backup units provide copies of computer files on magnetic tape, for protection against a catastrophic failure. Tape backup technologies include QIC, DAT, 8mm, DLT, AIT, and ADR.</p>
<p>Telephones (<u>Telephone Components—Ineligible</u>)</p>	<p>Telephones, also known as telephone sets, telephone instruments, digital voice terminals, and voice terminals, are the end-user equipment used to transmit and receive telephone communications.</p>
<p>Terminal Adapter (<u>Interfaces, Gateways, Antennas</u>)</p>	<p>A Terminal Adapter (TA) is a device that connects a computer to an external digital communications line, such as an ISDN line.</p>
<p>Terminal Server (<u>Servers</u>)</p>	<p>A Terminal Server is a specialized server that connects multiple terminals into a network. Traditionally, terminal servers were used to connect multiple “dumb” terminals into network resources but today are additionally used to provide increased connectivity and performance for older computer workstations or to provide <u>remote access</u>.</p>
<p>Test Equipment (<u>Ineligible Internal Connections Components</u>)</p>	<p>Test Equipment is used to test hardware, software, cable continuity, telecommunications links, etc.</p>
<p>Text Messaging (<u>Ineligible Telecommunications Services</u>)</p>	<p>Text messaging is a feature available from cell phones and other services that allows short alphanumeric messages to be sent from one device to another.</p>
<p>Transceiver (<u>Interfaces, Gateways, Antennas</u>)</p>	<p>A transceiver is a device that transmits and receives analog or digital signals. The term is used most frequently to describe the component in local area networks (LANs) that actually applies signals onto the network wire and detects signals passing through the wire. For many LANs, the transceiver is built into the network interface card (NIC).</p>
<p>Trunk lines (<u>Digital Transmission Services</u>)</p>	<p>A trunk line is a communications path between two switching systems, such as equipment in a telephone company central office and a Private Branch Exchange (PBX). Central Office trunks connect a PBX to the central office switching system at the central office. Tie trunks connect two PBXs together.</p>

Two-Way Radio (<u>End-user Equipment—Ineligible</u>)	Two-way radios are wireless end-user devices used to communicate, typically over short distances.
Uninterruptible Power Supply / Battery Backup (<u>Data Protection</u>)	An Uninterruptible Power Supply (UPS), also called a battery backup, is a device that provides backup electric energy to a piece of equipment in the event of a power failure.
Video Amplifier (<u>Video Components</u>)	A Video Amplifier is a device that strengthens the level of a video signal.
Video Channel Modulator (<u>Video Components</u>)	A Video Channel Modulator is a distribution box that takes standard video and audio input from video cameras, recorders, and other video components and distributes the signals to end users.
Video Components (<u>Video Components</u>)	Video components provide the capabilities and technologies to enable moving images on television screens or computer monitors.
Video Service (<u>Digital Transmission Services</u>)	Video services involve the transmission of visual images.
Virtual Private Network (VPN) Components (<u>Data Distribution</u>)	A Virtual Private Network (VPN) uses encryption and/or tunneling services in order to provide highly secure communication over the public Internet or in some cases over point-to-point links.
Voice Compression Module (<u>Telephone Components</u>)	A Voice Compression Module allows voice and fax traffic to share the same lines as data and LAN traffic.
Voice Interface Card (<u>Telephone Components</u>)	Voice Interface Cards (VIC) are usually components of a router or PBX system that interface with internal systems and the public switched telephone network. Examples are FXO Cards, E&M Cards, and FXS Cards.
Voice Mail Components (<u>Telephone Components</u>)	Voice mail components allow users to receive voice messages left by telephone callers and may have other features, such as message forwarding.
Voice over IP (VoIP) (<u>Voice/video Over IP Service—Ineligible</u>)	Voice over IP (VoIP) is a technology used to transmit telephone conversations over a data network such as the Internet. Among other features, this approach can bypass telephone company long distance services.
Voice/Fax Network Module (<u>Interfaces, Gateways, Antennas</u>)	A Voice/Fax module is an access product that enables the transmission of multiprotocol data--voice, fax and LAN--over telecommunications services.

Voice/Video over IP (VoIP) Components (Data Distribution)	Voice/video over IP (VoIP) components refer to equipment that utilizes the TCP/IP suite of protocols to provide voice and/or video communications.
Web Casting (Ineligible Internet Access Services)	Web Casting is a service provided over the Internet that delivers news or other content via web browser software or to an E-mail address. A user accesses a Web Casting site and chooses what news or content he/she wants to be informed about. Information content is then periodically delivered by the Web Casting supplier.
Web Hosting (Web Hosting)	Web Hosting is an arrangement where an organization such as a school or library arranges for another company to host the school or library website. A website is a location (such as www.schoolname.org) for World Wide Web content made available to those accessing the site. Web hosting is often provided by an Internet Service Provider and may be included as part of its service offering, or in some cases is provided as an additional service.
Web Server (Servers)	A web server is a computer server used to provide information to Internet users and can also be used to provide web-based software applications and other web-based functions.
Web Site Creation Fee (Internet Content—Ineligible)	A web site creation fee is a separate charge for creating a website.
Wide Area Network (WAN) (Digital Transmission Services)	A Wide Area Network (WAN) is generally a network that covers an area larger than a single building or campus.
Wire Manager (Cabling/Connectors)	Wire managers are wire restraints to house or arrange wiring and cabling. They can be aluminum or plastic and may be rack-mountable.
Wireless Local Area Network (Data Distribution)	A Wireless Local Area Network provides the functionality of a local area network using wireless components rather than cabling.
Wireless PBX Adjunct (Telephone Components)	A Wireless PBX Adjunct functions in conjunction with a Private Branch Exchange to enable use of cordless telephones on an organization's premises.
Workstation (End-user Equipment—Ineligible)	See the entry for <u>Personal Computer/Workstation</u> .

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