

Broadband Project, APPENDIX A-Eligible Expenses, 2015-16

Technology Funding

Access Point (Data Distribution)

- An Access Point is a base station in a wireless Local Area Network. Access points are typically stand-alone devices that may plug into an Ethernet switch or server or may provide a repeater function for wireless networks.

Antenna

- An antenna is a device for transmitting and/or receiving radio frequency signals.

Cabling/Connectors

- 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. Connectors are devices that connect wires or fibers.
- Cabling, connectors and related components used for voice, video and data transmission. Eligible components include:
 - Cable (e.g., copper, fiber, coax, twisted pair)
 - Connectors
 - Gigabit Interface Convertor (GBIC) or Small Form-factor Pluggable (SFP) device or SFP+ device
 - Jacks, panels, faceplates and wire managers
 - Network Interface Cards
 - Other cabling components necessary to transport information to the public areas of a library.

Circuit Cards/ Components

- Circuit cards and related components, such as memory modules/Random Access Memory (RAM), if they are necessary for adequate performance of an eligible component. For example, an eligible router.
- Network interface cards that are separately priced or used in eligible equipment.

Data Distribution

- Components used to transport information from telecommunication or Internet access facilities to the public areas of a library. Such components may include:
 - Access Points
 - Firewalls
 - Network Switches
 - Routers
 - Switches
 - Wireless LAN Controllers.

Fiber or Dark Fiber

- Trenching or aerial insertion for on-premises fiber installation.
- Lit or dark fiber, provided by any entity, including a non- telecommunications carrier. Dark fiber is eligible as long as applicants light the fiber immediately.
- Lit fiber—For leased lit fiber, special construction charges are eligible.
- Dark fiber—From the eligible entity up to the property line, construction costs to connect the fiber are eligible.

Network Management Software

- Network Management is a system of equipment or software used in monitoring, controlling, and managing a communications network.

Wireless Internet

- A wireless Internet access service is eligible under the same provisions as wired access to the Internet.

Architectural and Building Funding

Conduit and cabling

- Conduit and raceway including installation of conduit for network Point-of-Entry services.
- Conduit installation into the Point-of-Entry or server room, including vaults, surface-mount conduit, wall penetration, and related services and products.
- Cabling installation

Electrical System Upgrades

- Electrical service installation or upgrades. Electrical system upgrades refer to products and services that provide, upgrade, or enhance the provision of electrical power.
- Purchase and installation of electrical panels, electrical services and backboards.

Environmental Monitoring Components

- 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.

Equipment Racks and Cabinets

- 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.
- Racks 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 a separately identifiable cost can be included in the cost of the rack or cabinet but a separately priced surge protector is not eligible.

Heating, Ventilation, and Air Conditioning (HVAC)

- Purchase and installation of HVAC products and services.

Uninterruptible Power Supply (UPS)/Battery Backup

- An Uninterruptible Power Supply (UPS)/Battery Backup 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.
- The following components used for the reliable operation of a UPS are eligible:
 - UPS Interface Expander
 - Relay I/O Module.

Networking Consulting Funding

Consultant costs associated with configuring equipment.