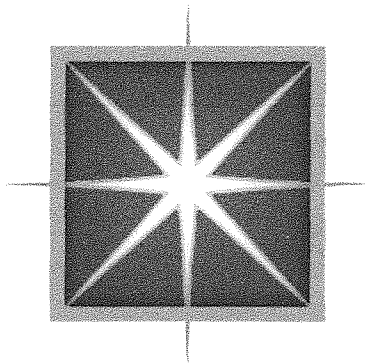# California Public Library Broadband Project

Year 2 Branch Connection

Grant Application Program

APPENDIX A-Grant Application

California Public Library Broadband Project
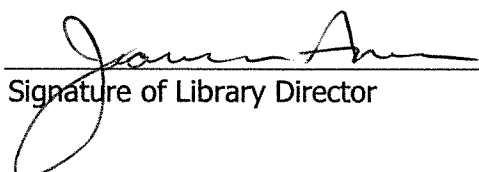Year 2 Grant Assistance Application

ELEMENT 1: INFORMATION

Applicant Information	
1. Library Full Name	El Dorado County Library
2. Library DUNS Number	001879035
3. County	El Dorado
4. Street Address	345 Fair Lane
5. City, State Zip+4	Placerville, CA 95667-4106
6. Website URL:	www.eldoradolibrary.org
7. Contact Name and Title	Jeanne Amos, Library Director
8. Contact Phone Number	530 621-5546
9. Contact Email Address	Jeanne.amos@edcgov.us

10.	Project Purpose (Please check all that apply)
x☐ A Technology Hardware Funding covering network equipment, and equipment installation and configuration.	
☐ B Architectural and Building Funding covering building modifications necessary to install and operate the network equipment.	
☐ C Network Consulting Funding covering consultant costs associated with equipment configuration.	

Project Timeline	
11. Can the project be completed by June 30, 2017?	x☐ Yes
12. Estimated start date	09/01/2016
13. Estimated completion date	3/2017

Project Budget	
14. Amount of grant funding request	$60,000
15. Amount of matching funds	$38
16. Total Project Cost	$60,038

As an authorized representative of the library listed above, I hereby certify that the information contained in this application is true and correct. I agree to the terms and conditions surrounding use of this funding if awarded.

7/20/2016

Signature of Library Director   Date

2

ELEMENT 2: ACTIVITIES

Activity	Timeline
Order equipment from vendors	After grant approval and acceptance by the Board of Supervisors Estimated to begin September 2016
Receive equipment from vendors	October/November 2016
Install Equipment in Pollock Pines	November 2016
Install Equipment in Georgetown	December 2016
Install Equipment in South Lake Tahoe	January 2017
Install Equipment in Cameron Park	February 2017
Go Live	March 2017
Grant Award Completion	March 2017

3

ELEMENT 3-1: BUDGET

Provide specific budget information for each project you are proposing.
- Do NOT include costs that are ineligible for grant funding, such as your own staff time.
- All equipment must be new.
- Column A should be total amount from branch projected costs. Column B should list expected costs from the vendor you intend to purchase items and services from.
- Explanation is required with detailed budget use the space provided on Element 3-2 page.
- Round all costs to the nearest dollar.
- If the grant request does not cover the full cost of any item listed in the application, detail the amount and sources of funds to be used to pay for the balance in the Explanation field.

Proposed Budget for Grant Eligible Project Costs	
Column A	**Column B**
Project Budget Detail	**Project Costs**
A Technology Hardware Funding	
Equipment for four branches to connect to CENIC	$60038
	$0
	$0
Subtotal	$60,038
Explanation:	
Project Budget Detail	**Project Costs**
B Architectural and Building Funding-	
	$0
	$0
	$0
Subtotal	$0
Explanation:	
Project Budget Detail	**Project Costs**
C Network Consulting Funding-	
	$0
	$0
	$0
Subtotal	$0
Explanation:	
Total Cost of Eligible Projects (Consulting Fees, Materials, Hardware, Software)	$60,000
X% Cash Match Committed by Library (May be cash or in-kind)	$0
Additional Match	$38
Total Grant Funding Requested	**$60,038**

4

ELEMENT 3-2: BUDGET

Provide specific budget information for each project you are proposing.
Provide name of branch, reason for need of funding and expected costs to connect.
Up to four sites may be funded.

Proposed Budget for Grant Eligible Project Costs by Branch	
Column A	**Column B**
Project Budget Detail	**Project Costs**
A Branch Name: Pollock Pines Library	
1- SMARTUPS X 1500 Power Backup	$713
2- SMARTSLOT UPS NTWK MGMT CARD	$252
3-ArubaInstant IAP-315 Wireless Access Point	$597
4-ArubaCare Support for 3 years	$107
5-Aruba Central cloud services – 1 year	$82
6-Switch	$686
7-DIN Rail Mount for Compact Switch	$63
8-Smartnet 8x5xNBD Cat 2960c Switch 12 FE POE	$44
9-Panduit R2P48 4 ft Cable Management Rack	$191
10-Leviton 492RU-HFO Cable Management Horizontal Front Only Slotted	$34
11-311350 LEVITON 491RU-HFO CABLE MANAGEMENT HORIZONTAL FRONT ONLY SLOTTED DUCT	$29
12 CENIC owned CPE	$12,988
Subtotal	$15,803

Explanation:
1,2 Power Protection and Battery backup for new equipment
3 Wireless Access Point with greater speed capability to take advantage of new CENIC Speed Increase
4 Support For Wireless Equipment
5 Cloud Management License to monitor equipment
6 New Ethernet switch to accommodate new equipment speed increase
7 19" rack mount kit for new switch to install in new rack
8 Support for new ethernet switch
9 Rack to Mount New equipment in, existing rack is full
10,11 Wiire management for new equipment rack
12 CENIC owned router/CPE

5

Project Budget Detail	Project Costs
B Branch Name: El Dorado Hills Library	
1- Cisco Catalyst 3650 48 Port PoE 4x1G Uplink LAN Base (quantity – 2)	$10,640
2- 3 Yrs SNTC 8x5XNBD Support (quantity - 2)	$2,800
3- 1000 BASE-T SFP Transceiver Module for Cat 5 Copper Wire (quantity – 4)	$1,106
Subtotal	$14,546

Explanation:
1 – Switches to accommodate speed

Project Budget Detail	Project Costs
C Branch Name: South Lake Tahoe Library	
1- SMARTUPS X 1500 Power Backup	$731.
2-SMARTSLOT UPS NTWK MGMT CARD	$252
3-318657 CPI 13604-725 EZ SWING WALL MOUNT RACK, 19U 38.5"HX20.3"WX25"D STEEL, BLACK	$268
4-316703 LEVITON 492RU-HFO CABLE MANAGEMENT HORIZONTAL FRONT ONLY SLOTTED DUCT	$34
5-316703 LEVITON 492RU-HFO CABLE MANAGEMENT HORIZONTAL FRONT ONLY SLOTTED DUCT	$34
6-311350 LEVITON 491RU-HFO CABLE MANAGEMENT HORIZONTAL FRONT ONLY SLOTTED DUCT	$29
7-311350 LEVITON 491RU-HFO CABLE MANAGEMENT HORIZONTAL FRONT ONLY SLOTTED DUCT	$29
8-CENIC owned router/CPE	12,988
Subtotal	$14,364

Explanation:
   1,2 - Power Protection and Battery backup for new equipment
   3 - Rack to Mount New equipment in, existing rack is full
   4,5,6,7 - Wire management for new equipment rack
   8 – CENIC fee for CENIC router

Project Budget Detail	Project Costs
D. Branch Name: Cameron Park Library	
1 SMARTUPS X 1500 Power Backup	$731
2 SMARTSLOT UPS NTWK MGMT CARD	$251
3 IAP-315-US ArubaInstant IAP-315 Wireless Access Point, 802.11n/ac,4x4:4MU-MIMO,dual radio, integrated antennas	$597
4 SN1-IAP315-US ArubaCare Next-Day Support extended service agreement-1 year X 3	$107
5 SUB1-CNP-IAP-1 1 year subscription for Aruba Central cloud services (Network Management, Web Policy Enforcement) for 1 IAP, including access to 24x7 online/phone support	$82
6 267489 CPI 11791-725 STD SWING GATE WALL MOUNT RACK 43.1"HX21.7"WX25"D ALUMINUM	$352
7 316703 LEVITON 492RU-HFO CABLE MANAGEMENT HORIZONTAL FRONT ONLY SLOTTED DUCT	$33
8 311350 LEVITON 491RU-HFO CABLE MANAGEMENT HORIZONTAL FRONT ONLY SLOTTED	$29

6

DUCT	
9 CM-00424CSP-7U-06 CS-UNIPRIS 8471514/10 23-4P UTP-CMR SOL BC CAT6 FR-PVC BLUE JACKET BOX 1000FT	$150
10 CENIC owned CPE	$12,988
Subtotal	$15,323

Explanation:

1,2 Power Protection and Battery backup for new equipment

3 Wireless Access Point with greater speed capability to take advantage of new CENIC Speed Increase

4 Support For Wireless Equipment

5 Cloud Management License to monitor equipment

6 Rack to Mount New equipment in, existing rack is full

7,8 Wire management for new equipment rack

9 Wire to run new drops to locations for those locations to connect to new equipmetn and new rack

10 CENIC fee for CENIC router

ELEMENT 4:   SUSTAINABILITY

Sustainability	
Will there be ongoing costs? If yes, what will they be to continue to support this project?	Yes, for service agreements and for replacement equipment.
Explain how you will fund and support any ongoing costs to support this project after FY 2015/2016.	We will budget them in the regular department budget in future years as we need to pay for items.

7

ELEMENT 5:   ATTACHMENTS

If you have additional resources that support your grant, please attach them after this page.

- Be sure to scan the application with attachments.

ELEMENT 6:   SUBMISSION

Please submit applications to:

By Mail:
Southern California Library Cooperative
248 E. Foothill Blvd, Suite 101
Monrovia, California 91016-5525
Attn: Broadband Grants

By Email*:
Send to broadband@socallibraries.org

* If you email your application, the signed original will need to be received within 7 days of the emailed application.

8

APPENDIX B-Eligible Expenses

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.

9

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
- 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.

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.

APPENDIX C-Grant Award Amounts

Grant amounts are based on Local Income Per Capita (LIPC) level. This figure is the result of dividing Local Operating Income for the most recent period available (2012-2013), by the Population of the Legal Service Area. In addition, a Local Match is required for the two higher LIPC Levels.

The Grant Amounts are divided into three tiers, or LIPC Levels, defined as follows:

	LIPC		Grant	Local	Local	Grant +
	From	Up To	Amount	Match %	Amount	Match
LIPC Level 1	$0	$50.00	$15,000	0%	$0	$15,000
LIPC Level 2	$50.01	$99.99	$12,000	25%	$3,000	$15,000
LIPC Level 3	$100.00	$∞	$10,000	50%	$5,000	$15,000

See separate attachment for award amounts.