



E-Rate Data Collection Tools Overview

January 2014

Agenda

- Item 21 Data Entry Portal
- K-12 Internet Infrastructure Database
- Automated Bandwidth Monitoring

ITEM 21 DATA ENTRY PORTAL

Conduit

alpha.conduit.test.educationsuperhighway.org

Reader

ITEM 21
DATA ENTRY PORTAL

HOME MY E-RATE MY ORGANIZATIONS jean@educationsuperhighway.org

Enter your E-Rate Item 21 information.

Save time and create a lasting record of your FCC Form 471 funding requests.

Start here

Home



My E-Rate

Manage Item 21 Attachments for the current funding year.



My Organizations

Change which organization(s) you represent.



My Account

Change your account settings, such as your password.

Add Item 21 Attachment (FRN) – Conduit

alpha.conduit.test.educationsuperhighway.org/form471s/52e56dadb5f5df34ec00001a/item21s/new

ITEM 21 DATA ENTRY PORTAL HOME MY E-RATE MY ORGANIZATIONS jean@educationsuperhighway.org

Add Item 21 Attachment (FRN) [Back to My E-Rate](#)

Organization Platte Center Elem School

FRN ?

SPIN × ?

Discount Rate % ?

Contract or Tariff ?

Service Start

Service End

Add Item 21 Attachment/FRN

My E-Rate

Funding Year 2014

MY ORGANIZATIONS
Platte Center Elem School
[Edit](#)

Form 471 Applications

[Add 471 Application](#)

No. 7945 [Delete](#)

Item 21 Attachments

FRN	SERVICE PROVIDER	FUNDING AMOUNT REQUESTED
674598	Cox Virginia Telcom, LLC	\$47,530.64
769832	GST Telecom Inc.	\$16,362.66

[Add Attachment](#) [Download PDF](#) [Email PDF](#)

Edit Line Items - Conduit

alpha.conduit.test.educationsuperhighway.org/item21s/52e56ddcb5f5dff6e00001c/edit_line_items

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Add Line Item

USAC Category: Internet Access

Category: Data Network

Product: **Lit Fiber service**

Purpose: DSL

Quantity: T1/DS1

Monthly: T3/DS3

Non Recurring Total Cost: \$ Ineligible Amount: \$

Cancel Add Line Item

About Feedback Terms of Service

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Add Line Item (1)

Edit Line Items - Conduit

alpha.conduit.test.educationsuperhighway.org/item21s/52e56ddcb5f5dff6e00001c/edit_line_items

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Add Line Item

USAC Category Internet Access ?

Category Data Network ?

Product Lit Fiber service ?

Purpose Internet Access ?

Quantity 1 ?

Bandwidth 1 Gbps

Monthly **Total Cost** \$ 5400 **Ineligible Amount** \$ 0 ?

Non Recurring **Total Cost** \$ 1500 **Ineligible Amount** \$ 0 ?

Cancel Add Line Item

Add Line Item (2)

Platte Center Elem School

**Item 21 Attachment
Funding Year 2014**

BEN Service Provider
 Form 471 SPIN
 FRN

Contract Contract Start Contract End Service Start
 Tariff

Service Type	Service Description	USAC Category	Quantity	Bandwidth
Lit Fiber service	Internet Access	Internet Access	1	1 Gbps

Recurring Charges		Non Recurring Charges	
Monthly Recurring Charges	\$5,400.00	One Time Non Recurring Charge	\$1,500.00
Less Ineligible Amount (If Any)	\$0.00	Less Ineligible Amount (If Any)	\$0.00
Number Of Months	12	-	-
Eligible Recurring Charges	\$64,800.00	Eligible Non Recurring Charges	\$1,500.00

Totals	
Total Eligible Charges	\$66,300.00
Discount Rate	68.0%
Funding Requested	\$45,084.00

Platte Center Elem School

**Item 21 Attachment
Funding Year 2014**

BEN Service Provider
 Form 471 SPIN
 FRN

Contract Service Start Service End
 Tariff

Service Type	Service Description	USAC Category	Quantity	Bandwidth
Plain Telephone Service (POTS/PSTN)	Local & Long Distance	Telecommunications Services	150	

Recurring Charges		Non Recurring Charges	
Monthly Recurring Charges	\$3,400.00	One Time Non Recurring Charge	\$1,794.00
Less Ineligible Amount (If Any)	\$549.00	Less Ineligible Amount (If Any)	\$435.00
Number Of Months	12	-	-
Eligible Recurring Charges	\$34,212.00	Eligible Non Recurring Charges	\$1,359.00

Totals	
Total Eligible Charges	\$35,571.00
Discount Rate	46.0%
Funding Requested	\$16,362.66

PDF

User Testing Feedback

- Overall comments
 - "Very clean, simple and easy to use." (Technology Coordinator)
 - "You guys could make a lot of money selling this." (State E-rate Coord.)
- Managing Data
 - "I really like how I can manage multiple FRN's one place" (Tech Coord.)
 - "I can get all my Item 21's done in one shot!" (Systems Administrator)
 - "Having all the 471's in one place" (when asked what the number 1 reason they would use the portal) (Chief Technology Officer)
 - "Having a year-to-year data warehouse is a huge selling point." (Administrator for Instructional Technology and Online Learning)
- Taxonomy
 - "I like the descriptions better than USAC's" (Chief Technology Officer)
 - "It's a lot cleaner than USAC" (referring to taxonomy during Add Line Item workflow) (Chief Technology Officer)

User Testing Feedback

- Year-to-Year Data Management:
 - "Cloning my data from last year would be absolutely great!" (Media and Technology Coordinator)
 - "Cloning from last year could really save us time when we have staff turnover since the data is rarely available in a single place." (State Erate Coordinator)
 - "USAC has made it virtually impossible to copy data from previous years" (State Erate Coordinator)
- PDF (design, data structure and reporting)
 - "You're giving me a final PDF that's a lot more valuable than what USAC gives me." (Systems Administrator)
 - "I like this better already." (after looking at the PDF for 10 seconds) "It's nice and clean" (Systems Administrator)

User Testing Feedback - Enhancements

- Targeted for Beta release
 - Ability to edit line items
 - Add Form 471 link from 'My Organizations' as its tough to locate
 - Form fields with search not working as expected with tabs and clicks
- Under Investigation
 - Line item fields requires scrolling
 - **Users would like to know if they can skip the USAC site for item 21 or do they need to do both?**

Planned Enhancements

- Import Form 471 (new feature)
 - Users can import unlimited number of organizations/471s and generate PDFs
- Top Level Navigation (enhancement)
 - Moving My E-Rate up one level in the workflow and moving My Organizations and My Account to secondary areas since 90% of the work is conducted in My E-Rate
- Add/Edit Line Items Workflow
 - Migrate to a modal editing workflow which means users will no longer need to scroll to add or edit line items.
- Security
 - Implement encryption for user accounts.

Planned Enhancements

- Taxonomy refinements
- PDF Configuration (new feature)
 - Provide easy way for users to generate single PDFs for each Form 471 or combine all 471s into a single doc.
- USAC Deadline E-mail Reminder
 - Users receive an email reminder a few days prior to submission close with instructions for returning to the portal if needed

Item 21 Entry Portal Program Status

Milestone	Date	Comments
Alpha	1/10/14	Release to begin software testing
Beta	2/4 – 2/21/14	Feature complete; beta testing
User Testing	1/13 – 2/15/14	Usability testing in 2 phases; focus on ease of use
Release Candidate (RC)	2/22 – 2/27/14	Product stable – final releasable product recognized
General Availability (GA)	2/28/14	Commercialization – ‘go live’
Item 21 submission window	3/1 – 3/24/14*	Intensive usage of I21 entry portal along with USAC Form 471 * Item 21 portal closes down prior to USAC date of 3/26/14

K-12 INTERNET INFRASTRUCTURE DATABASE

AUTOMATED BANDWIDTH MONITORING

Automated Bandwidth Monitoring - Goals

- Provide the FCC and the E-rate policy community with broad, useful, and reliable data on Internet access and WAN connectivity USAGE funded by the E-rate program.
 - Measuring USAGE not SPEED
- Allow E-rate recipients the maximum amount of flexibility and local control over how they collect data from their networks.
- Minimize the resources needed to develop and operate the data collection program.
- Promote the use of network monitoring and performance measurement tools as a general best practice.

Data Flow

- One measurement server per district collects data from devices every 5 minutes via SNMP.
- Collected data is sent to the FCC once a day via web service call or file transfer.

