

E-Rate Open Data Course 1: Open Data Overview September 14, 2023



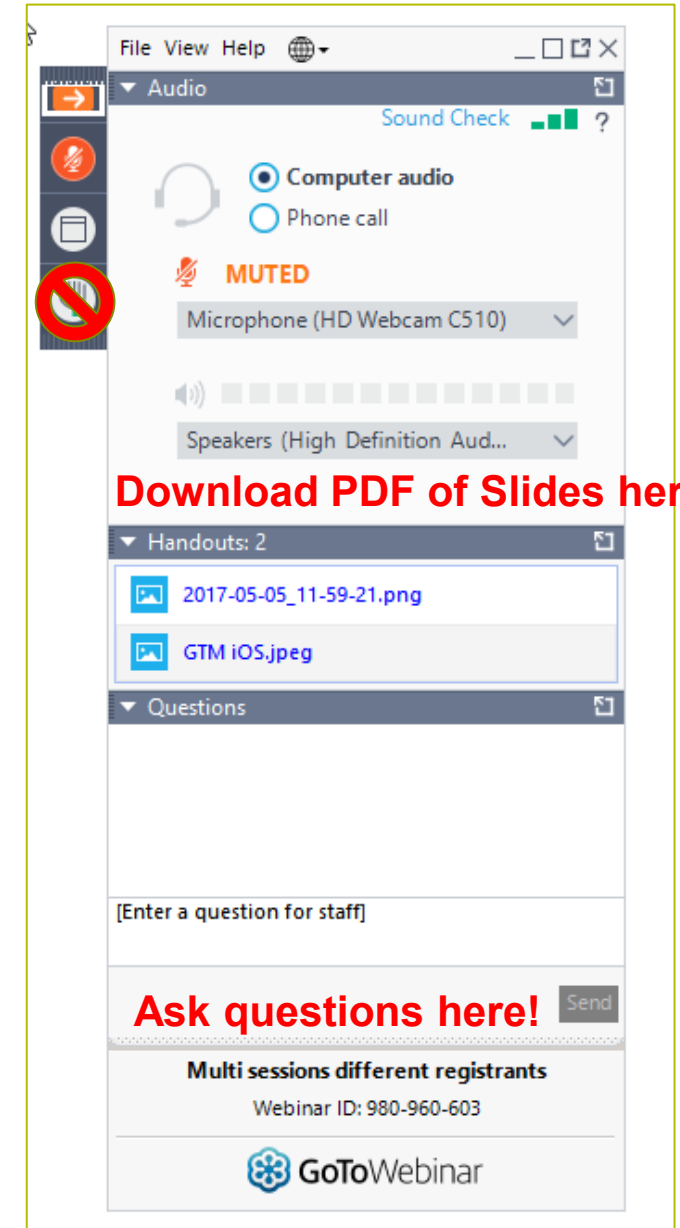
Universal Service
Administrative Co.

Disclaimer

To accommodate all attendees, real-time closed captions will be present during this presentation. We apologize in advance for any transcription errors or distractions. Thank you for your support.

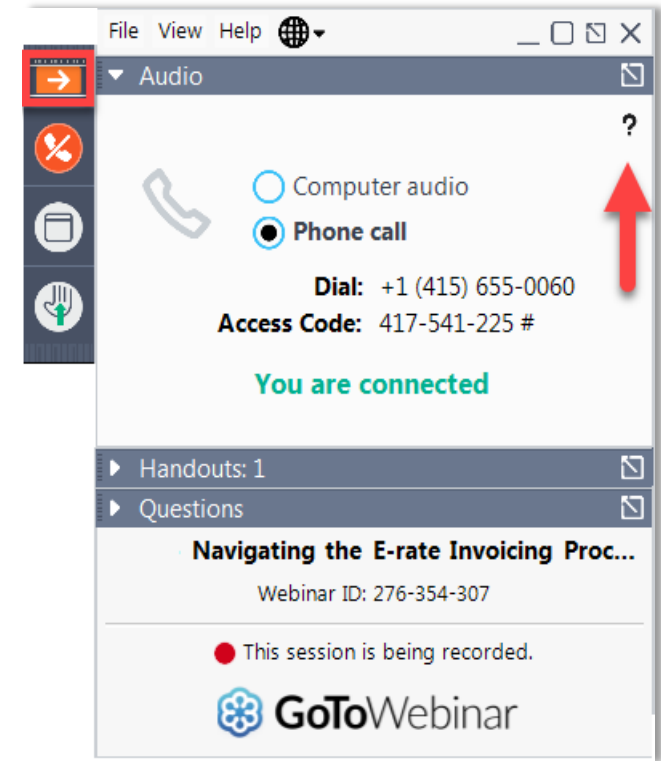
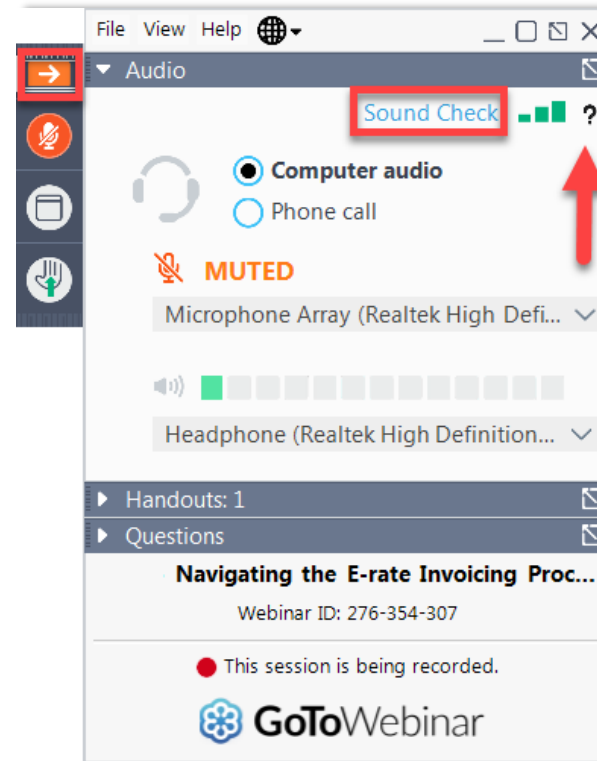
Housekeeping

- Audio is available through your computer's speakers.
- The audience will remain on mute.
- Enter questions at any time using the **“Questions”** box.
- If your audio or slides freeze, restart the webinar.
- A copy of the slide deck is in the **“Handouts”** section of webinar panel.



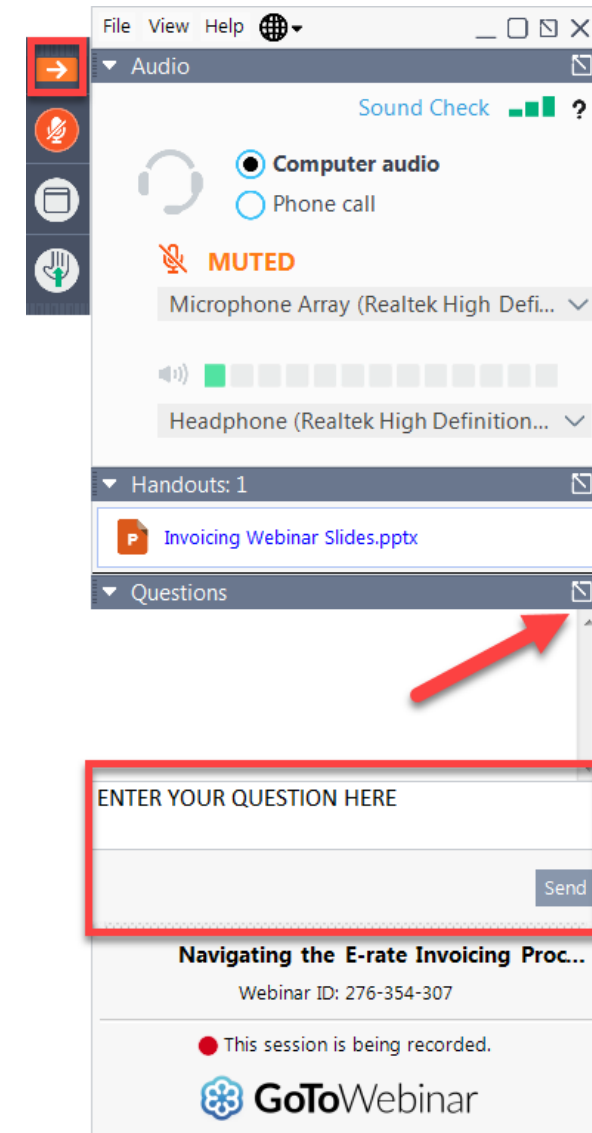
Housekeeping – Technical Issues

- Use the **Sound Check** link and click question mark icon for audio help.
- Exit webinar and click the check system requirements link in the event confirmation email to determine whether your computer meets the requirements to see and hear the webinar.
- If issues persist, call 833-851-8340 to troubleshoot with GoToWebinar.



Housekeeping Q & A

- There will be a live Q&A session focused on today's topics.
- Tips for submitting questions:
 - Use the **Questions** box in your webinar control panel anytime during the presentation.
 - Click the box with the arrow above the questions box to expand it and see all written answers.
 - Write in full sentences.
 - Ask one question at a time.
 - Ask questions related to webinar content.



E-Rate Customer Service Center (CSC)



Call us at (888) 203-8100

Monday – Friday 8 a.m. to 8 p.m. ET



**Create a customer service case in the
E-Rate Productivity Center (EPC):**

1. Log in to EPC.
2. Select the **Contact Us** link from the upper right menu on the landing page.

MEET THE TEAM



Lorenzo Sanchez

Lead Data Analyst| E-Rate



Thomas Nesbitt

Director| E-Rate

What we will cover



Open Data introduction



Learn to navigate the open data platform



Explain the various open data sets and tools available



Search for tools



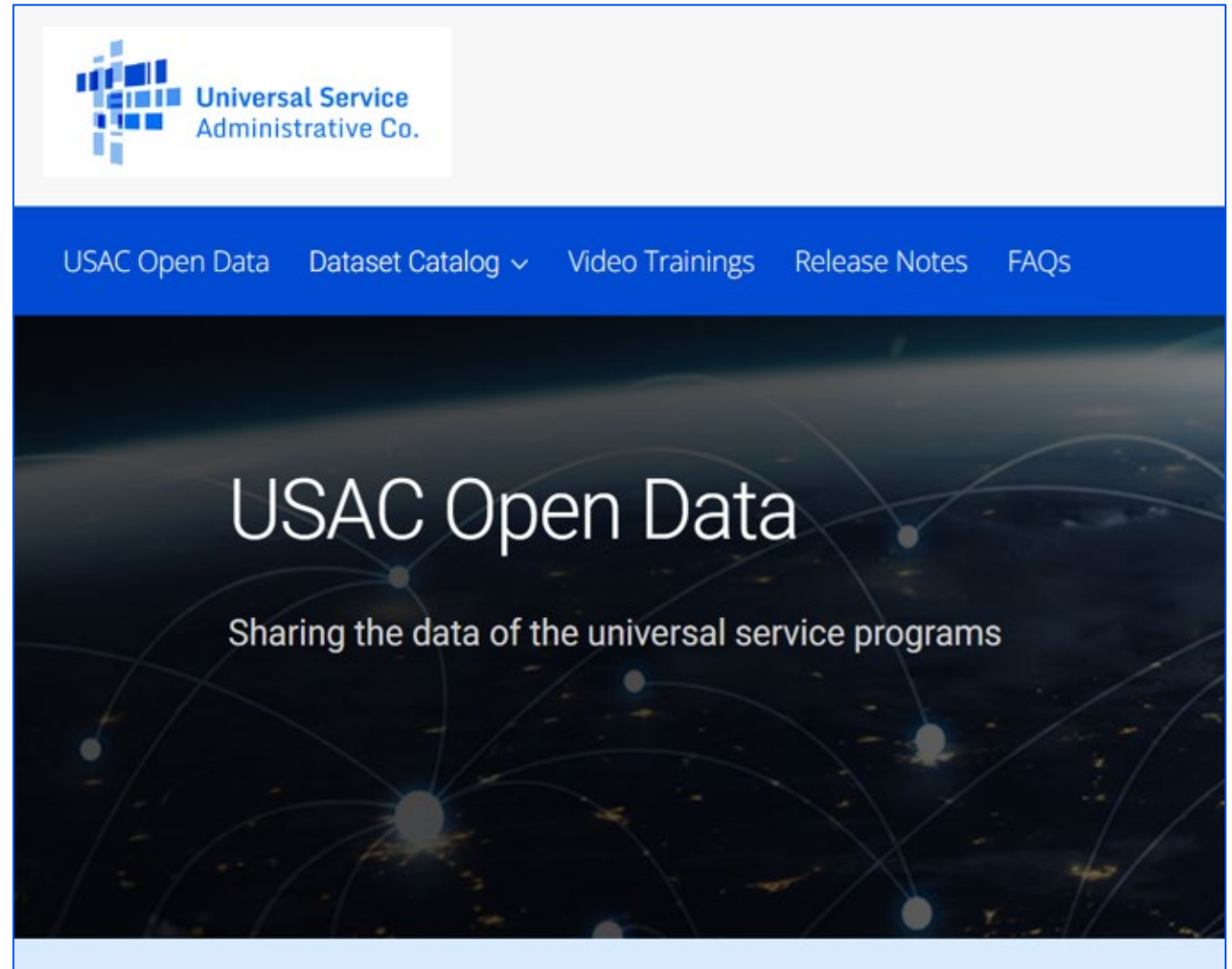
Walk through a tool use case



Review additional resources

What is Open Data?

- USAC's Open Data is a web portal where you can access:
 - Raw data submitted by universal service program participants
 - Self-service tools connected to USAC data
- As part of USAC's Open Data initiative, we make this data open and accessible to the general public.
 - Anyone is free to use, re-use, and redistribute the data in our datasets



What is it for?

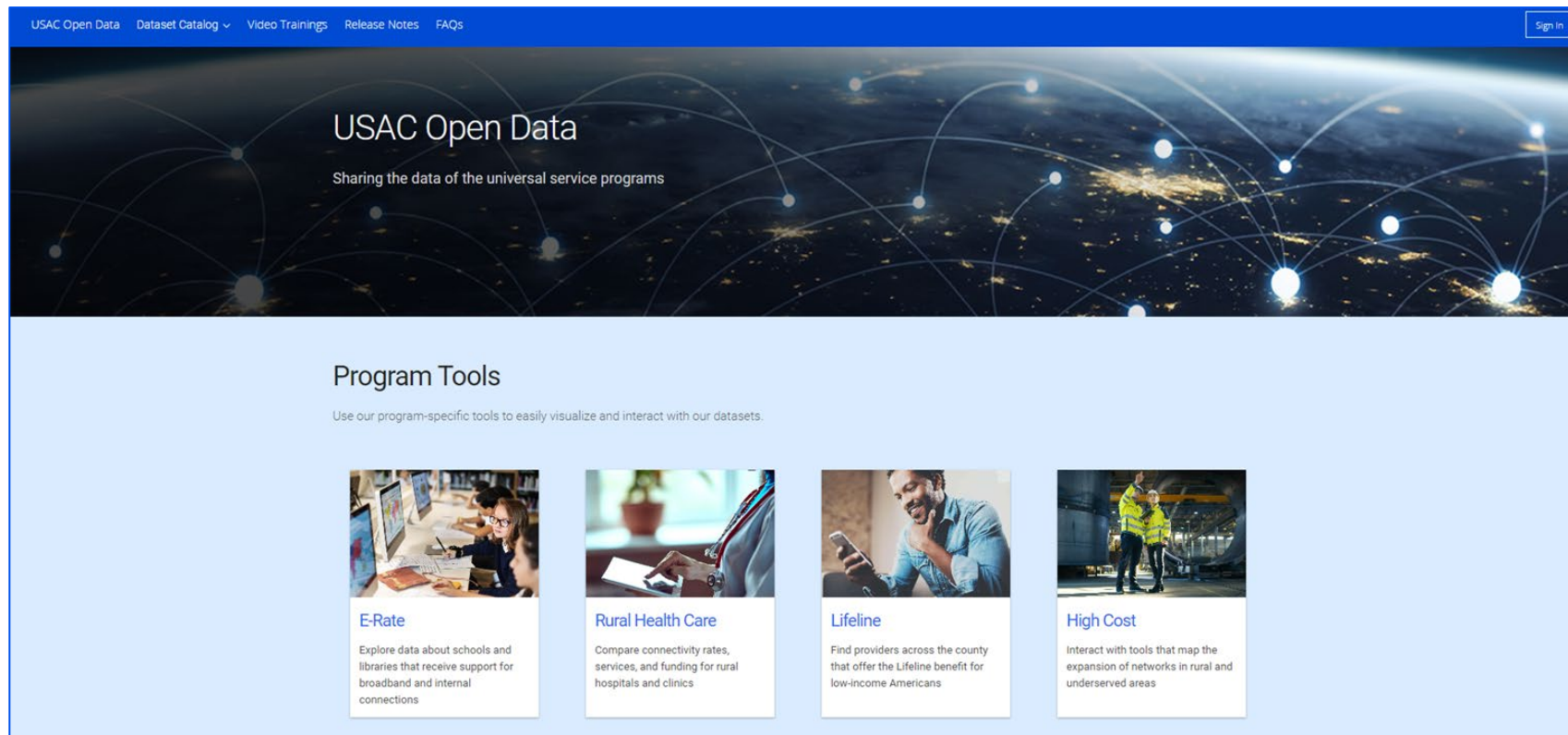
- Make universal service fund program data available to the public in an equitable and reliable way
- Provide transparency, visibility, and self-service in a highly secure platform
- Help stakeholders answer universal service fund program questions using the available data

How does Open Data accomplish this for E-Rate?

- Provides E-Rate data related to:
 - FCC Form 470 (competitive bidding)
 - FCC Form 471 (request for discount on services and funding commitments)
 - FCC Forms 472/474 (reimbursements)
 - Category 2 FY2021+ budgets
 - E-Rate Productivity Center (EPC) related data
- Allows searching large datasets of aggregated E-Rate information using a variety of filters
- Allows creating customized reports and visualizations
- Provides data export options in multiple formats including Excel

How to access Open Data

Access USAC Open Data Website: <https://opendata.usac.org/>



Datasets and tools

Open Data Datasets vs. Tools: How do they differ?

Datasets

Go directly to our datasets to access all of the raw data submitted by universal service program participants.

E-Rate Data

100,000+ schools and libraries connected

Rural Health Care Data

9,000+ clinics supported

Search

16 Results filtered by Categories > E-rate View Types > Datasets Clear All

Sort by Alphabetical

E-Rate

E-rate

Emergency Connectivity Fund

High Cost

Lifeline

E-Rate C2 Budget Tool Data FY2021+

The C2 Budget Tool Data FY2021+ Set is designed to assist applicants in determining their C2 budgets for each five-year cycle beginning with the first budget cycle, which starts in FY2021 and ends in FY2025. The data set and tool should be [More](#)

Updated February 7, 2023 Views 24,231

Tags broadband, c2, c2 budget tool, erate, e rate, and 9 more

API Docs

E-Rate Invoices and Authorized Disbursements (FCC Forms 472 and 474)

The E-Rate Invoices and Authorized Disbursements (FCC Forms 472 and 474) dataset provides invoicing data for applicants, service providers, and other stakeholders so they can track invoice lines completed and authorized for [More](#)

Updated February 7, 2023 Views 1,769

Tags 471, 472, 474, applicant, applicant contact information, and 21 more

API Docs

E-Rate Open Competitive Bidding: Basic Information (FCC Form 470 and Related Information)

Program Tools

Use our program-specific tools to easily visualize and interact with our datasets.

E-Rate

Explore data about libraries that receive broadband and connections

These tools provide access to public E-Rate Program data including commitments and disbursements. For the full catalog of datasets, see [E-Rate Datasets](#), which includes data from [FCC Forms 470](#), [FCC Forms 471](#), and information about [entities](#), [consultants](#), and [annexes](#).

Featured Tools

[E-Rate FRN Status Tool FY2016+](#)

The E-rate FRN Status Tool FY2016+ provides the latest funding request number (FRN) data including: applicant/BEN data; service provider data; FRN status; service type; service start and end dates; FRN costs and funding amounts; FCC Form 473 - Service Provider Annual Certification (SPAC) status; applicant FCC Form 498 status, application pending reasons; FCC Form 486 status; wave date; Funding Commitment Decision Letter (FCDL) comments; last post commitment/appeal wave data; service delivery and invoice deadlines; invoicing mode; and total disbursement amount. Each row in the data set is for a single FRN.

Watch the [video walkthrough](#) to learn how to use the tool.

[E-Rate FRN Invoice Deadline Tool](#)

The E-Rate FRN Invoice Deadline Tool provides users with the ability to search, view, and download funding request number (FRN) data related to invoicing including the invoice deadline date, funds remaining for invoicing

Instructions

Use the filters on the right to select your data. You must select 'Apply' to activate...

\$0

\$1B

\$2B

2023

2022

2021

2020

2019

2018

Funding Commitment Request

Total Disbursement Amount

Click and drag to pan the chart

Instructions

Use the filter drop-down lists on the right to specify the data to display. Click t...

\$0

\$1B

\$2B

2022

Funding Commitment Request

13

Key E-Rate Open Data tools

Datasets	Tools
E-Rate Supplemental Entity Information	<ul style="list-style-type: none">• E-Rate Entity Search Tool
E-Rate Request for Discount on Services: FRN Status (FCC Form 471 and Related Information)	<ul style="list-style-type: none">• E-Rate FRN Status Tool FY2016+• E-Rate FRN Invoice Deadline Tool
E-Rate Request for Discount on Services (all datasets)	<ul style="list-style-type: none">• E-Rate FCC Form 471 Download Tool
E-Rate Invoices and Authorized Disbursements (FCC Forms 472 and 474)	<ul style="list-style-type: none">• E-Rate Invoice Disbursements Data Lookup Tool
E-Rate C2 Budget Tool Data FY2021+	<ul style="list-style-type: none">• E-Rate C2 Budget Tool FY2021+

Search Open Data for E-Rate assets

Dataset Catalog: <https://opendata.usac.org/browse?category=E-Rate>

The screenshot displays the USAC Open Data Dataset Catalog interface. The top navigation bar includes links for USAC Open Data, Dataset Catalog (highlighted with a red box), Video Trainings, Release Notes, and FAQs. A search bar (also highlighted with a red box) is located below the navigation bar. The main content area shows 16 results filtered by the category 'E-Rate'. The left sidebar contains filters for Categories (E-Rate, Emergency Connectivity Fund, High Cost, Lifeline, Rural Health Care) and View Types (Calendars, Charts, Data Lens pages, Datasets, External Datasets, Files and Documents, Filtered Views, Forms). The search results list three datasets:

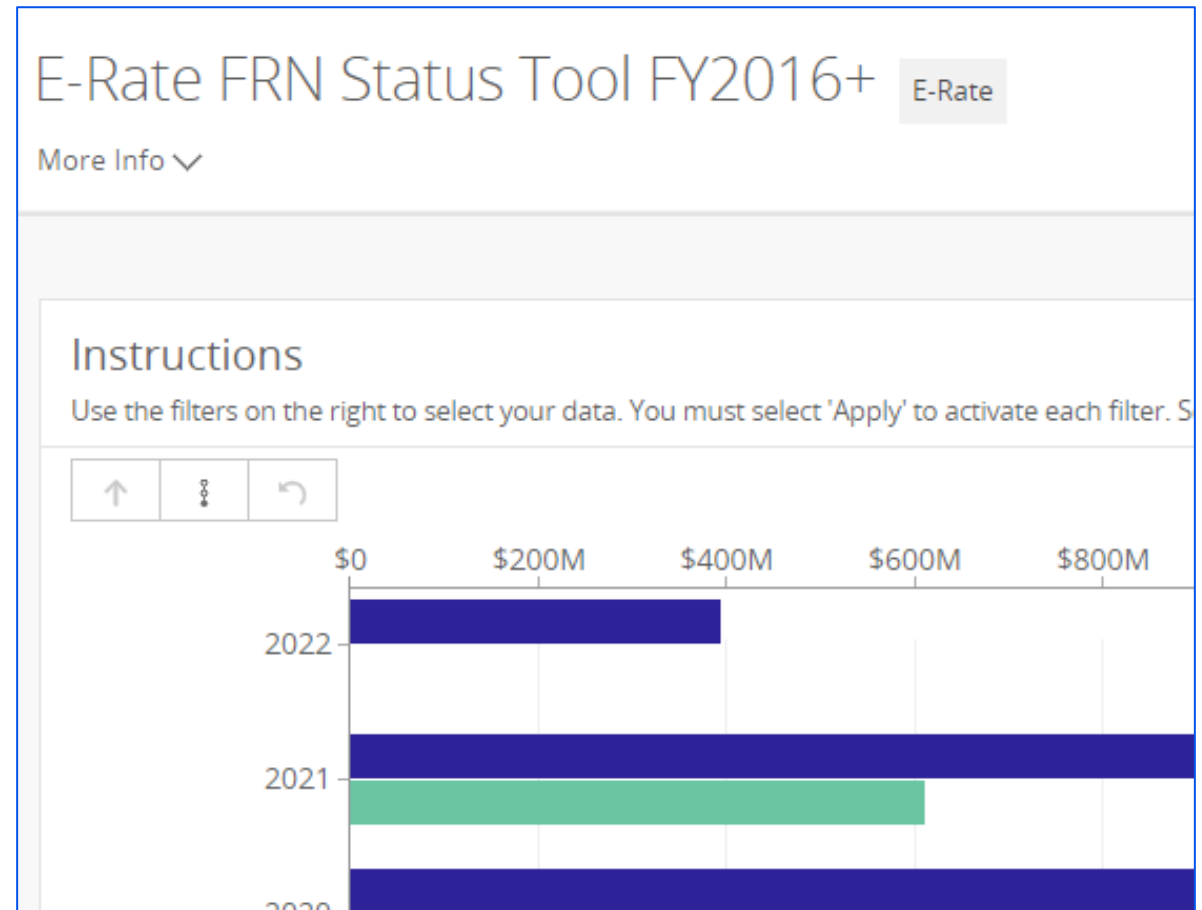
- E-Rate C2 Budget Tool Data FY2021+** (Dataset): The C2 Budget Tool Data FY2021+ Set is designed to assist applicants in determining their C2 budgets for each five-year cycle beginning with the first budget cycle, which starts in FY2021 and ends in FY2025. The data set and tool should be More. Updated June 29, 2023. Views 6,881. Tags: broadband, c2, c2 budget tool, erate, e rate, and 9 more.
- E-Rate Invoices and Authorized Disbursements (FCC Forms 472 and 474)** (Dataset): The E-Rate Invoices and Authorized Disbursements (FCC Forms 472 and 474) dataset provides invoicing data for applicants, service providers, and other stakeholders so they can track invoice lines completed and authorized for More. Updated June 28, 2023. Views 1,792. Tags: 471, 472, 474, applicant, applicant contact information, and 21 more.
- E-Rate Open Competitive Bidding: Basic Information (FCC Form 470 and Related Information)** (Dataset): This dataset contains information from the basic information section of each FCC Form 470, including applicant details such as contact information, application number, Billed Entity Number (BEN), and funding year, and related information More. Updated June 29, 2023. Views 49,497. Tags: 470, applicant, applicant contact information, applicant information, basic information, and 13 more.

The bottom of the results list shows the start of another entry: **E-Rate Open Competitive Bidding: Consortium Entity Information (FCC** (Dataset).

Demo: E-Rate FRN Status Tool FY2016+

Use Case [E-Rate FRN Status Tool FY2016+](#) :

As an applicant, what is the status of all funding requests I've submitted for the most recent funding year?

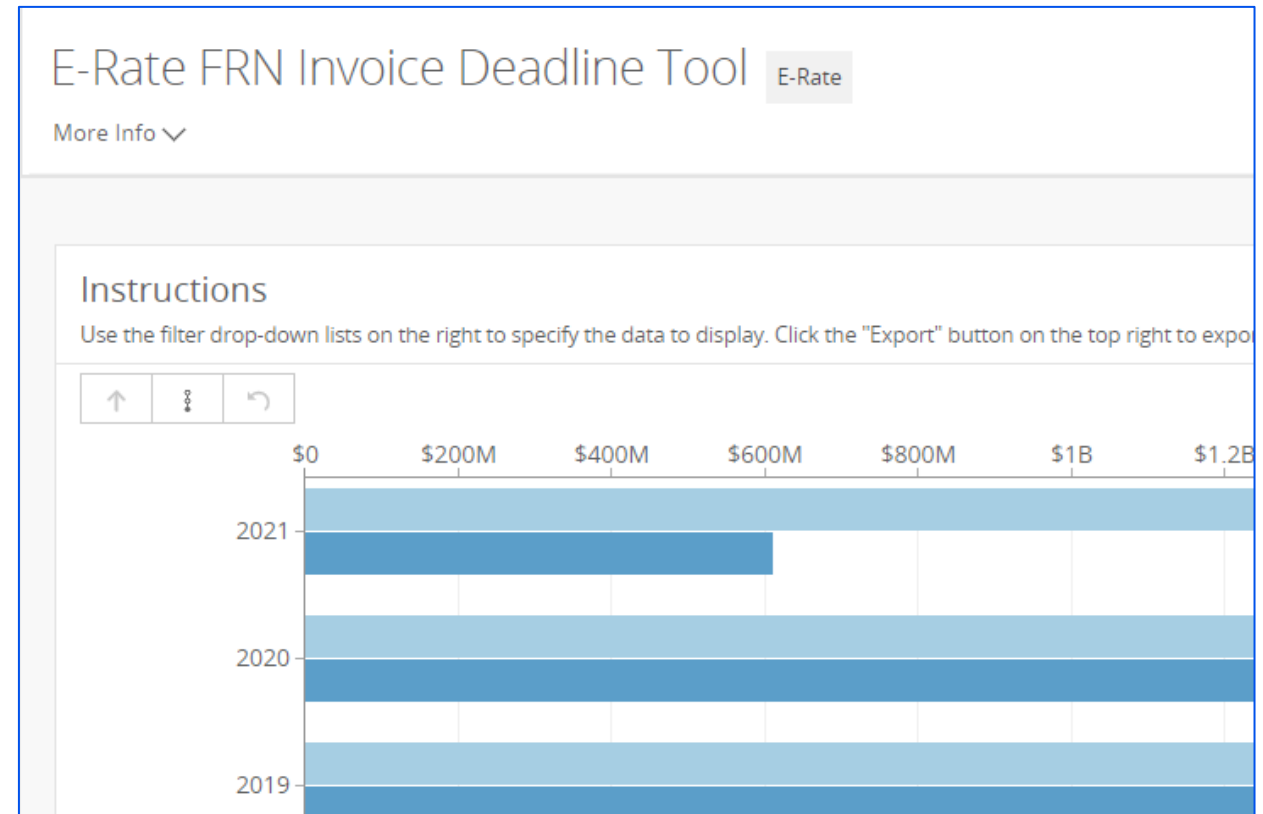


Demo: E-Rate FRN Invoice Deadline Tool

Use Case [E-Rate FRN Invoice Deadline Tool](#):

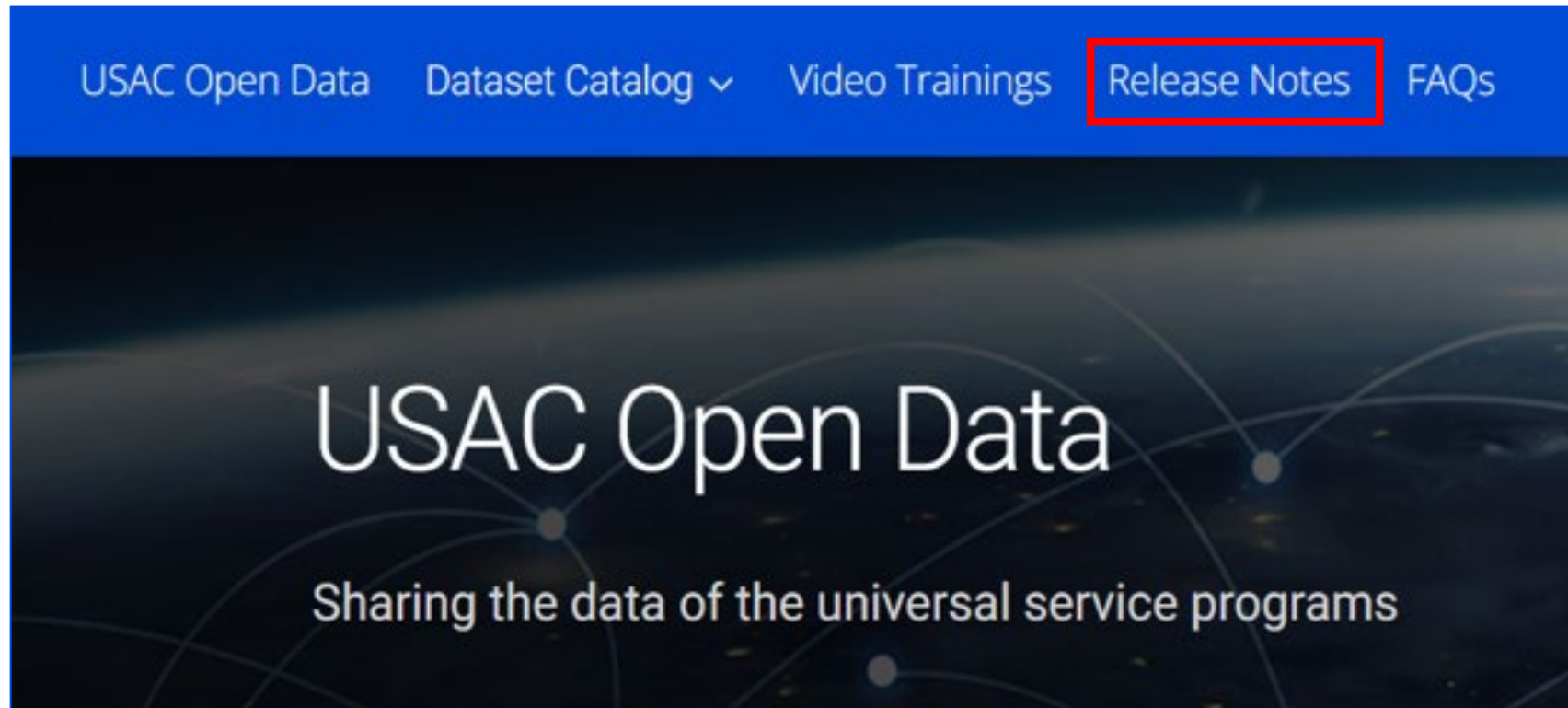
As a service provider, how much funding is remaining for funding requests where we are listed as the service provider and that are:

- Invoicing ready, not expired, and with SPI as the invoicing method?
What are the invoicing deadlines?



Open Data Resources

- You can find a list of all major Open Data updates (new assets, enhancements, and resolved issues) in our [Release Notes](#) page



Dataset resources


Each Dataset includes the following resources:

Columns in this Dataset

Column Name	Description	Type
Application Number	Unique application number is generated at the time an applica...	Plain Text T
Funding year	Funding year for the application.	Plain Text T
Billed Entity State	Applicant's state.	Plain Text T
Form Version	Indicates whether the form version of the application is 'curre...	Plain Text T
Window Status	Indicates whether the application has been certified in the win...	Plain Text T
Billed Entity Number	Unique number assigned to the billed entity/ applic...	
Applicant's Organization Name	Applicant organization name.	


- List of columns with short descriptions

Related Content Using this Data




E-Rate FRN Invoice Deadline Tool

February 7, 2023 492 Views




The E-Rate FRN Invoice Deadline Tool is designed to assist applicants and service providers with identifying FRNs with an upco...



E-Rate FRN Status Tool FY2016+

February 7, 2023 464 Views



This dataset is de... dataset. It provide... information, filter...

- Connected tools (if available)

Universal Service Administrative Co.

E-rate Request for Discount on Services: Funding Request Number Status

FCC Form 471 and Related Information Dataset Glossary

This dataset contains data about the Funding Request Number (FRN) listed within each FCC Form 471, along with related information on the Funding Commitment Decision Letter (FCDL), wave information, the FCC Form 486, invoicing, and disbursements.

Use this dataset to answer questions such as:

- What are the individual service types?
- What quantity of service did the applicant request?
- Which service provider is supplying service and what is the length of the contract?
- What invoicing mode is being used?
- How much funding has been disbursed?

The information within the FRN information data collection from the FCC Form 471 is self-reported by applicants.

USAC is committed to sharing the highest quality data possible. We conduct a full analysis of all datasets to determine if they are complete prior to publishing. Each dataset field is described with a "field completeness" metric that ranges from 0 to 100 percent. Any value less than 100 percent indicates a field with missing values. In most cases, missing values are the result of "not required" fields.

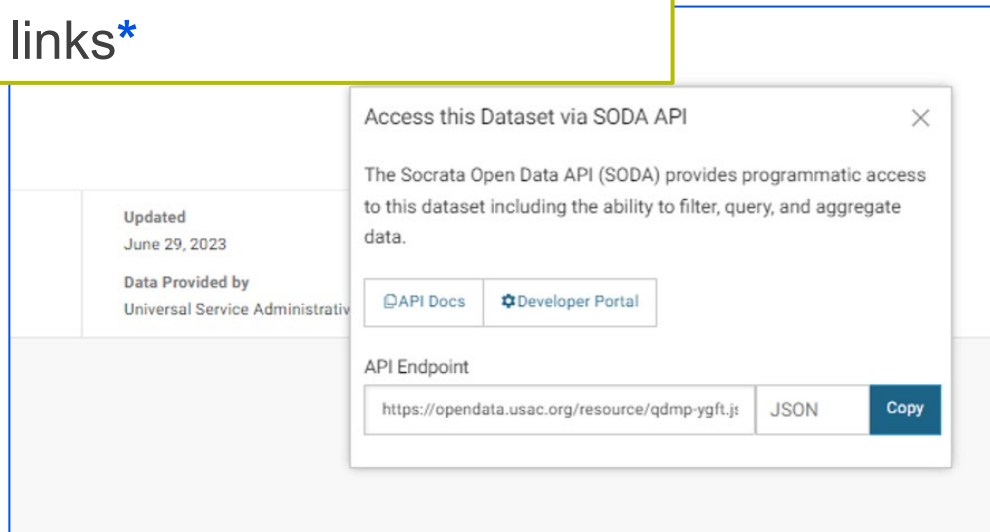
Field Name	Field Description	Field Completeness
Application Number	Unique application number generated at the time applicants begin to file the FCC Form 471. Applicants can request funding for multiple services under the same application number. The unique application number begins with the last two digits of the funding year. This field is available in each dataset allowing for quick access of data from each of the seven FCC Form 471 data collections, at the application level. The application number is limited to customizing and creating visualizations of data to each of the seven FCC	100%
Funding year		
Billed Entity State		

- Glossary with definitions

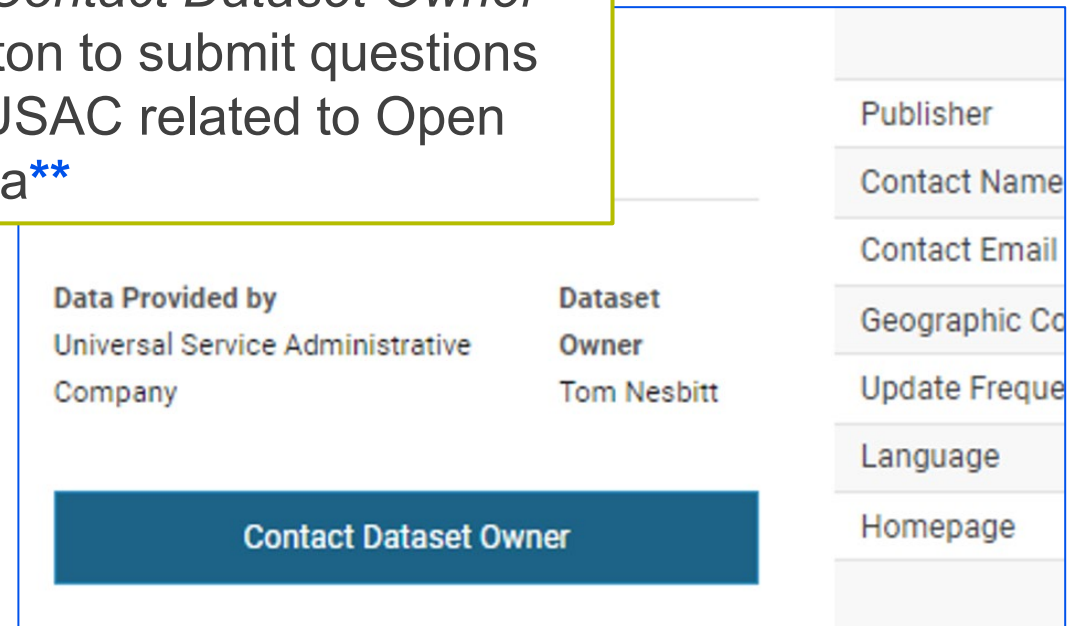
Dataset resources (contd.)

Each Dataset includes the following additional resources:

- Developer and API documentation reference links*



- A "Contact Dataset Owner" button to submit questions to USAC related to Open Data**



*For developer/API questions, contact the Socrata support team at:
<https://support.socrata.com/hc/en-us/requests/new>

**For E-Rate program or application specific questions, contact the program team directly.
 See <https://www.usac.org/e-rate/contact-us/>

Open Data Webinar Part 2



Uses for custom reports



Creating an Open Data account



Demo: Creating a custom report



Uses for visualizations



Demo: Creating a simple chart visualization

Questions?

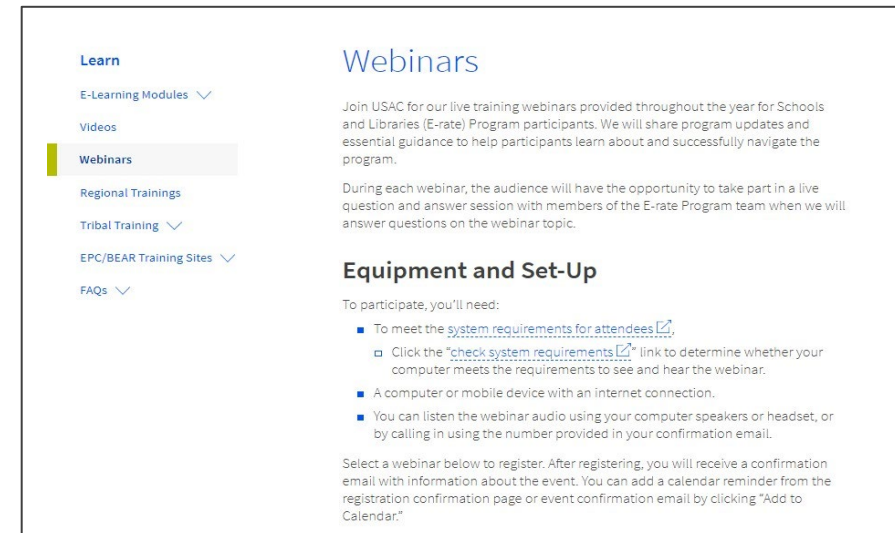
UPCOMING WEBINARS

**Our next webinar is on:
9/21/23 at 2 p.m. ET**

Topic (This should be the webinar
strictly focused on training)

Recommended for: Applicants
and service providers

E-Rate Experience Level: All



The screenshot shows a web page with a left sidebar and a main content area. The sidebar has a 'Learn' header and a list of links: 'E-Learning Modules', 'Videos', 'Webinars' (highlighted with a yellow bar), 'Regional Trainings', 'Tribal Training', 'EPC/BEAR Training Sites', and 'FAQs'. The main content area has a 'Webinars' header. Below it, there is a paragraph about live training webinars, a paragraph about audience participation, and a section titled 'Equipment and Set-Up'. This section lists requirements for participation, including system requirements, a computer or mobile device, and audio options. At the bottom, there is a paragraph about selecting a webinar to register for.

Learn

- E-Learning Modules
- Videos
- Webinars**
- Regional Trainings
- Tribal Training
- EPC/BEAR Training Sites
- FAQs

Webinars

Join USAC for our live training webinars provided throughout the year for Schools and Libraries (E-rate) Program participants. We will share program updates and essential guidance to help participants learn about and successfully navigate the program.

During each webinar, the audience will have the opportunity to take part in a live question and answer session with members of the E-rate Program team when we will answer questions on the webinar topic.

Equipment and Set-Up

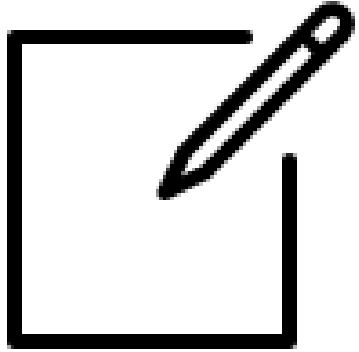
To participate, you'll need:

- To meet the [system requirements for attendees](#),
 - Click the "[check system requirements](#)" link to determine whether your computer meets the requirements to see and hear the webinar.
- A computer or mobile device with an internet connection.
- You can listen the webinar audio using your computer speakers or headset, or by calling in using the number provided in your confirmation email.

Select a webinar below to register. After registering, you will receive a confirmation email with information about the event. You can add a calendar reminder from the registration confirmation page or event confirmation email by clicking "Add to Calendar."

Go to the E-Rate [Webinars](#)
page for additional
information.

Take Our Survey



- We want to hear about your webinar experience.
- A survey will appear on your screen at the end of the webinar.
- If you are not able to complete the survey today, one will be emailed to you within one to two business days.
- We appreciate your feedback!

Thank You!





Universal Service
Administrative Co.

Key Terms

Term	Definition
Dataset	A set of numbers or values that relate to a specific topic
Tool	A user-friendly interface that facilitates viewing or exporting data from datasets
Raw data	Data that has not been altered or processed for use
Self-service	A system of serving oneself without needing assistance from another person
Open Data Assets	Any object within Open Data including datasets and tools

Key Terms

Term	Definition
Open Data Assets	Any object within Open Data including datasets and tools
Use case	When or why someone would utilize a process
Aggregated	Grouped numbers or values
Filter	Feature to remove unwanted information, leaving the user with only the information they want to view
API	An application programming interface (API) allows two applications to communicate with each other usually via code written in a programming language