USAC and the Connect America Fund

Coming in 2021:

Performance Measures Testing

November 19, 2020

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Housekeeping

- Use the "Audio" section of your control panel to select an audio source

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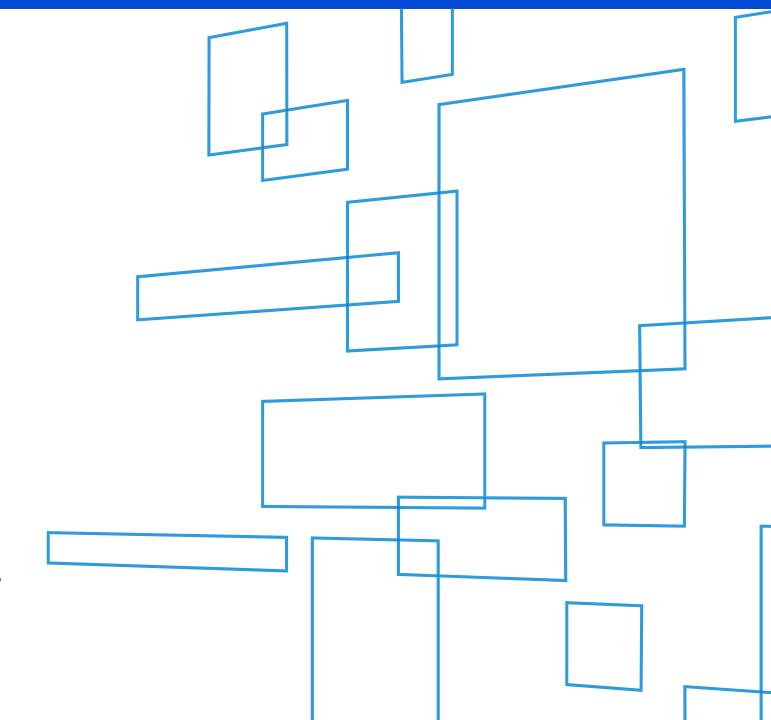- Use the call-in instructions (including audio PIN)

Audience Q&A

- Submit your questions using the "Questions" box in your webinar control panel

- We will answer questions at the end of the presentation

Welcome

Today's Speakers:

- John Putnam
  Communications
  Specialist

- Tim Weith
  Director, High Cost

- Dori Evans
  Senior Product Manager

Connect America Fund Goals

- Preserve and advance universal availability of voice service
- Drive universal availability of modern networks capable of providing voice and broadband service to homes, businesses and community anchor institutions
- Drive universal availability of modern networks capable of providing advanced mobile voice and broadband service
- Ensure that rates for broadband and voice services are reasonably comparable in all regions of the nation
- Contain administrative costs and minimize the universal service contribution for consumers and businesses through efficient, effective program management

Connect America Fund Compliance

USAC closely monitors carrier compliance with broadband deployment obligations
to safeguard the accountability, transparency and integrity of the Connect America Fund.

Compliance process consists of three steps:

HUBB Portal: Tracking Broadband Deployment

Verification Reviews: Confirming Broadband Deployment

Performance Testing: Measuring Network Speed and Latency

High Cost Universal Broadband (HUBB) Portal

A system that collects the geographic coordinates (latitude and longitude) of locations where carriers are deploying broadband using CAF support
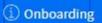
- Tool for collecting location-specific service availability data from carriers across all Connect America Fund (modernized) programs – millions of individual records
- Performs automated, real-time <u>validation</u> of data submissions
  - Checks that latitude and longitude of a reported location fall within area eligible for funding
  - Checks that the location is not a duplicate of one already submitted
- Tracks carrier progress toward meeting deployment obligations, including interim milestones
- Annual HUBB filing deadline is in March for carriers to report broadband deployed with CAF support in the prior calendar year
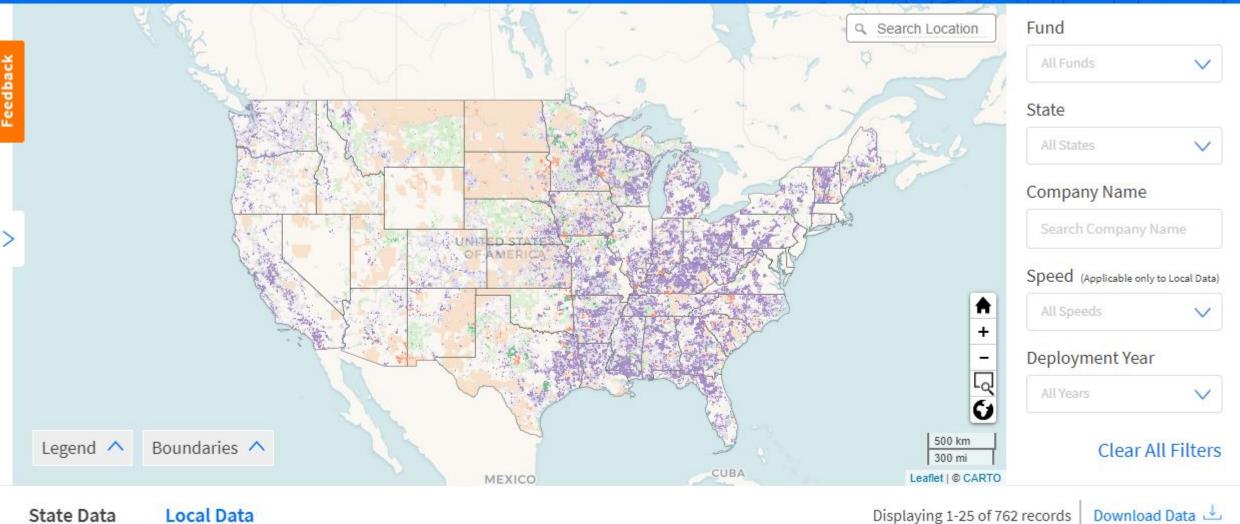
High Cost Universal Broadband (HUBB) Portal

A system that collects the geographic coordinates (latitude and longitude) of locations where carriers are deploying broadband using CAF support

- Serves as a starting point for <u>verification</u> reviews to confirm deployment to a random sample of locations reported by carriers
  - All carriers participating in CAF programs with deployment obligations are subject to verification reviews tied to mandatory deployment milestones
  - Goal is to verify that a carrier deployed broadband service meeting the FCC's minimum performance standards to a qualifying number of locations by the relevant deployment milestone
- Provides the foundation for the CAF Map, a public map that shows the impact of CAF funding on broadband expansion across rural America

Connect America Fund Broadband Map

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Feedback

Search Location

UNITED STATES
OF AMERICA

MEXICO

CUBA

500 km
300 mi

Leaflet | © CARTO

Legend ^   Boundaries ^

Fund

All Funds ⌄

State

All States ⌄

Company Name

Search Company Name

Speed (Applicable only to Local Data)

All Speeds ⌄

Deployment Year

All Years ⌄

Clear All Filters

State Data   **Local Data**   Displaying 1-25 of 762 records | **Download Data** ⤓

State ▲	Fund	Company Name	Deployment Year	Locations Obligation		Locations Deployed		Total Support Disbursed	

HUBB Filing Obligations by Fund

Carriers in these funds have until March 1, 2021 to file data for all locations deployed in 2020:

- **Connect America Fund (CAF) Phase II Model:** Carriers must meet their total build-out obligations by end of 2020 in each state where they receive support (100 percent milestone)
- **Alternative Connect America Cost Model (A-CAM) and Revised ACAM:** Carriers face first milestone for deploying 10/1 Mbps broadband service, and must be at least 40 percent of the way toward meeting their final 10/1 Mbps build-out obligations by the end of 2020 (40 percent 10/1 Mbps milestone)
- **ACAM II** and **Connect America Fund-Broadband Loop Support (CAF-BLS):** <u>All</u> CAF-BLS carriers must file in the HUBB
- **Rural Broadband Experiments (RBE)**
- **Alaska Plan** (other than carriers with individualized performance plans that only require them to maintain service at existing levels)
- **CAF Phase II Auction**

HUBB Filing Obligations

- CAF II Model, Original ACAM and Revised ACAM carriers must also complete **deployment milestone certifications** as part of the annual HUBB filing and will face verification reviews tied to those milestones

  - Carriers that miss deployment milestones face increased reporting obligations and potential loss of support

- ACAM II carriers have until March 1, 2021 to report pre-2019 broadband deployment

- CAF-BLS carriers have until March 1, 2021 to report pre-2019 broadband deployment at speeds of at least 25 Mbps downstream/3 Mbps upstream (25/3 Mbps) completed since May 25, 2016

- **Carriers that did not deploy any locations in 2020 must still log into the HUBB and certify "no locations to upload" by March 1, 2021**

Performance Testing:

Measuring Broadband Speed and Latency

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Performance Measures Testing

The performance measures framework requires carriers that receive CAF support for fixed-location broadband to conduct network speed and latency testing and report the results to USAC. Testing mandates apply to carriers participating in the following funds:

- **Connect America Fund (CAF) Phase II Model**
- **Connect America Fund (CAF) Phase II Auction**
- **Alternative Connect America *Cost* Model (A-CAM), Revised ACAM** and **ACAM II**
- **Connect America Fund-Broadband Loop Support (CAF-BLS)**
- **Rural Broadband Experiments (RBE)**
- **Alaska Plan**

The windows to start testing vary by fund, beginning this year with CAF II carriers.

Performance Measures Testing

- Carriers must conduct one week of speed and latency testing at a USAC-selected random sample of CAF-supported locations with active subscribers in each quarter of the calendar year

- Carriers must test speed and latency from the customer premises of **active subscribers** to a remote test server located at, or reached by passing through, an FCC-designated Internet exchange point (IXP)

  - Carriers serving areas greater than 500 air miles from an FCC-designated IXP may conduct all required speed and latency testing between the customer premises and the point at which traffic is aggregated for transport to the continental U.S.

- Carriers should use the same subscriber locations for both speed and latency testing
- Carriers must conduct testing between 6 p.m. and 12 a.m. local time

Performance Measures Testing

Carriers can choose from among three options for speed and latency testing:

- Leverage existing Measuring Broadband America (MBA) testing infrastructure by using entities that manage and perform testing for the FCC MBA program

- Use existing network management systems and tools, ping tests and other commonly available performance measurement and network management tools

- Develop own self-testing configuration using software installed on residential gateways or in equipment attached to residential gateways

Performance Measures Testing

- Carriers must submit speed and latency test results from the previous calendar year for each state and speed tier combination to USAC by annual July filing deadline

  - USAC encourages carriers to file test results on a quarterly basis

- At least 80 percent of network speed measurements must be at 80 percent of required speeds (as determined by fund) and 95 percent of latency measurements must fall at or below 100 milliseconds round-trip time

- FCC will consider failure to meet speed and latency requirements as a failure to deploy and may withhold support

Performance Measures Testing

- Before official testing, carriers are subject to a "pre-testing" period for one week of each quarter of the calendar year

- During pre-testing, carriers must test speed and latency at a random sample of subscriber locations and submit the results to USAC within one week of the end of the quarter

- Carriers will not face withholding of support for failing to meet speed and latency standards during pre-testing

Performance Measurement Testing Schedule

Performance Testing Begins January, 2021

Fund	Pre-Testing Start	Pre-Testing End	Pre-Testing Data Filing Deadlines	Real Testing Start Date
Original ACAM	1/1/21	12/31/21	4/7/21; 7/7/21; 10/7/21; 1/7/22	1/1/22
Revised ACAM	1/1/21	12/31/21	4/7/21; 7/7/21; 10/7/21; 1/7/22	1/1/22
RBE	1/1/21	12/31/21	4/7/21; 7/7/21; 10/7/21; 1/7/22	1/1/22
Alaska Plan	1/1/21	12/31/21	4/7/21; 7/7/21; 10/7/21; 1/7/22	1/1/22

Future Performance Testing Schedule

Fund	Pre-Testing Start	Pre-Testing End	Pre-Testing Data Filing Deadlines	Real Testing Start Date
ACAM 2	1/1/22	12/31/22	4/7/22; 7/7/22; 10/7/22; 1/7/23	1/1/23
CAF-BLS	1/1/22	12/31/22	4/7/22; 7/7/22; 10/7/22; 1/7/23	1/1/23
CAF 2 Auction	1/1/22	12/31/22	4/7/22; 7/7/22; 10/7/22; 1/7/23	1/1/23
NY Broadband	1/1/22	12/31/22	4/7/22; 7/7/22; 10/7/22; 1/7/23	1/1/23

Performance Measurement Module (PMM)

- Collects carrier data on which locations in the HUBB have active subscribers

- Selects a random sample of those locations for speed and latency testing

- Collects the actual speed and latency test data from carriers

Performance Measurement Module

How It Works:

- Carriers download certified locations already filed in the HUBB
  - Data provided in CSV file (template for subscriber upload)
- Carriers add subscriber IDs for locations with active subscribers
- Carriers upload CSV file with subscriber IDs into the PMM
- PMM generates a random sample of locations with active subscribers in each speed tier for testing
- Carriers conduct speed and latency testing at selected subscriber locations
  - Carriers must use the same locations for speed and latency testing

Performance Measurement Module

How It Works (cont.)

- Carriers must test up to 50 locations for each speed tier per state, depending on the number of subscribers a carrier has in each state and speed tier

- Carriers must obtain a new random sample after two years of testing/pre-testing

- Carriers upload speed and latency test results to PMM using CSV files
  - Separate CSV templates for Speed and Latency results

- Carriers cannot edit/modify HUBB records for subscriber locations selected for testing
  - Locations are locked in HUBB

Performance Measurement Module

- USAC will notify carriers when PMM opens for ACAM, Revised ACAM, RBE and Alaska Plan carriers to upload subscriber location data and obtain random samples for testing
- Carriers should get started NOW by:
  - Updating broadband deployment data in the HUBB to be as accurate and complete as possible
    - Begin filing 2020 deployment data in the HUBB now so that these locations can potentially be included in the random samples for performance testing
  - Collecting data on which locations in the HUBB have active subscribers since this can take time

Performance Measurement Process Overview

- Step 1 – Update Your HUBB Data – Available Now

  - Clean up your HUBB data – modifications, corrections, etc.

  - Upload and certify any 2020 deployments you want included in your pool

- Step 2 – Download HUBB Locations & Compile Subscribers – Available Now

  - Download your list of all certified locations from HUBB

  - Identify which locations have active subscribers

  - Complete subscriber template with subscriber ID (no PII)

- Step 3 – Upload Subscribers to PMM – December 18th

  - Submit data to Randomizer

  - Generate Sample – PMM will generate a random sample of subscribers

  - Download sample files

- Step 4 – Start Testing Your Samples

Performance Measurement Schedule

Step	Date	Notes
Clean up HUBB Data	Now	Update and Add new locations
Compile Active Subscriber Data	Now	Identify Subscribers for HUBB locations
First Day to Upload Subscriber Data to PMM	12/18/20	Submit subscriber data for all states & speed tiers
Begin Getting Subscriber Samples for Testing	12/18/20	Once all subscriber data is uploaded, get samples
Collect Performance Data	1/1/21 – 3/31/21	All tests must be dated between these dates
Last Day to Submit Q1 Performance Data	4/7/21	Deadline to submit Q1 Speed and Latency data

Performance Measurement Phase 1 - Subscriber Data

12/18/2020   1/1/2021

Get HUBB Data	Add Subscriber Data	Upload Subscriber Data	Submit to Randomizer	Generate Sample	Download Sample	Test Sample
Download Certified HUBB Location Records	Add Subscriber ID to Template	Upload Subscriber Template	Submit Subscriber Data to Randomizer	Generate Sample of Subscribers to Test	Download Sample of Subscribers to Test	Conduct Performance Testing of Sample

Performance Measurement Process –Samples

- Sample by State

  - Carriers receive samples for each state they are authorized in

- Sample by Speed Tier

  - Carriers in funds with multiple speed tier obligations get samples for each speed tier

  - For example, ACAM 1 has obligations for 4/1, 10/1 and 25/3 – therefore they will get 3 samples

- Sample Size

  - Sample size is based on the number of subscribers submitted

  - Maximum of 50 subscribers to test per sample

  - Minimum of 5 subscribers to test per sample

Performance Measurement Process – Manage Sample

- Replace Subscriber

  - Replace a selected subscriber with the next randomly selected one

  - Provide a reason for Replacing the Subscriber

    - Subscriber Refused to Allow Installation of Testing Equipment

    - Subscriber Dropped Service (no longer active)

    - Subscriber Demands Removal of Testing Equipment

    - Subscriber Subscribes to Lower Speed Than Being Tested

    - Natural Disaster

    - Other – Requires Explanation and USAC / FCC Review

- Add Subscribers

  - Get additional randomly selected subscribers to test

  - Responsible for submitting performance test data for additional subscribers

- No Valid Subscribers

  - Special process if no additional subscribers available

Step 1 – Get Current Certified HUBB Data

Subscriber Data Upload Template File - Before

	A	B	C	D	E	F	G	H	I	J
1	SAC	Latitude	Longitude	Address	State	Speed Tier	# of Units	Carrier Location ID	HUBB Location ID	Subscriber ID(s)
2	250283	33.91935	-86.4103	ADDRESS /	VA	6	15600	6010201	38712807	
3	250283	33.89576	-86.3793	ADDRESS /	VA	6	200	6010202	38712808	
4	250283	33.89783	-86.3591	ADDRESS /	VA	6	6300	6010203	38712809	
5	613004	61.58238	-159.539	ADDRESS /	VA	6	300	6010203	38712810	
6	613004	61.57872	-159.527	ADDRESS /	VA	6	37800	6010203	38712811	
7	613004	61.57796	-159.561	ADDRESS /	VA	6	300	6010203	38712812	
8	250283	33.91935	-86.4103	ADDRESS /	VA	6	15600	6010201	38712813	
9	250283	33.89576	-86.3793	ADDRESS /	VA	6	200	6010202	38712814	
10	250283	33.89783	-86.3591	ADDRESS /	VA	6	6300	6010203	38712815	
11	613004	61.58238	-159.539	ADDRESS /	VA	6	300	6010203	38712816	
12	613004	61.57872	-159.527	ADDRESS /	VA	6	37800	6010203	38712817	
13	613004	61.57796	-159.561	ADDRESS /	VA	6	300	6010203	38712818	
14	250283	33.91925	-86.4104	ADDRESS /	VA	6	15600	6010201	38712819	
15	250283	33.89566	-86.3798	ADDRESS /	VA	6	200	6010202	38712820	
16	250283	33.89784	-86.3591	ADDRESS /	VA	6	6300	6010203	38712821	
17	613004	61.58248	-159.539	ADDRESS /	VA	6	300	6010203	38712822	
18	613004	61.57874	-159.526	ADDRESS /	VA	6	37800	6010203	38712823	
19	613004	61.57786	-159.56	ADDRESS /	VA	6	300	6010203	38712824	

Step 2 – Compile Subscriber Information

Subscriber Data Upload Template File - After

	A	B	C	D	E	F	G	H	I	J
1	SAC	Latitude	Longitude	Address	State	Speed Tier	# of Units	Carrier Location ID	HUBB Location ID	Subscriber ID(s)
2	250283	33.91935	-86.4103	ADDRESS	VA	6	15600	6010201	38712807	1
3	250283	33.89576	-86.3793	ADDRESS	VA	6	200	6010202	38712808	2
4	250283	33.89783	-86.3591	ADDRESS	VA	6	6300	6010203	38712809	3;20;22
5	613004	61.58238	-159.539	ADDRESS	VA	6	300	6010203	38712810	4
6	613004	61.57872	-159.527	ADDRESS	VA	6	37800	6010203	38712811	
7	613004	61.57796	-159.561	ADDRESS	VA	6	300	6010203	38712812	6
8	250283	33.91935	-86.4103	ADDRESS	VA	6	15600	6010201	38712813	7
9	250283	33.89576	-86.3793	ADDRESS	VA	6	200	6010202	38712814	8
10	250283	33.89783	-86.3591	ADDRESS	VA	6	6300	6010203	38712815	9
11	613004	61.58238	-159.539	ADDRESS	VA	6	300	6010203	38712816	10
12	613004	61.57872	-159.527	ADDRESS	VA	6	37800	6010203	38712817	11
13	613004	61.57796	-159.561	ADDRESS	VA	6	300	6010203	38712818	12
14	250283	33.91925	-86.4104	ADDRESS	VA	6	15600	6010201	38712819	13;30;31;32
15	250283	33.89566	-86.3798	ADDRESS	VA	6	200	6010202	38712820	14
16	250283	33.89784	-86.3591	ADDRESS	VA	6	6300	6010203	38712821	15
17	613004	61.58248	-159.539	ADDRESS	VA	6	300	6010203	38712822	16
18	613004	61.57874	-159.526	ADDRESS	VA	6	37800	6010203	38712823	17
19	613004	61.57786	-159.56	ADDRESS	VA	6	300	6010203	38712824	18

Step 3 – Upload Subscriber Information

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Performance Measures Module

Sign Out

Upload Subscribers   Subscriber Detail   Randomizer

Upload Subscriber List

ⓘ **330** days left to Upload Subscribers.

Step 1: Generate and Download your HUBB data file.
This file will have a column for you to add your Subscriber IDs.

Generate HUBB Data

📄 **Performance Subscriber Data Upload Template_09-26-2019-14-28-41.csv**

Step 2: Upload the downloaded HUBB Data file with your Subscriber IDs.
For more information on data validation and formatting rules, click on Detailed Instructions.

Upload Subscriber File

Recently Uploaded Files

File Name	Uploaded	Progress	Records Uploaded	Records Saved	Data Errors	Download Errors	Delete

Subscriber Upload Information

- **Autosaved Locations:** Files uploaded that do not contain errors will be saved in the system.
  They will be counted towards the sampled subscriber locations, used in the randomizer.
- **Locations with errors:** Files uploaded that contain one or more errors will not be saved in the system.
  Please download your error file, delete the original file, make the necessary changes, and re-upload the clean file.

Step 3 – Upload Subscriber Information

Step 3 – Upload Subscriber Information

Subscriber Data Issue Log File

	A	B	C	D
1	Row #	HUBB Location ID	Subscriber	Issue Code
2	2		1	HUBB_LOCATION_ID_REQUIRED
3	3	3871280aaa8	2	HUBB_LOCATION_ID_INVALID_FORMAT
4	4	38712809	3	HUBB_LOCATION_ID_INVALID_DUPLICATE
5	5	38712809	4	HUBB_LOCATION_ID_INVALID_DUPLICATE
6	6	38712811		SUBSCRIBER_ID_REQUIRED
7				

Step 4 – Submit to Randomizer

Important

Submit

Please note if you click on 'Proceed' to run the randomizer, you will submit all subscribers for all SACs and not be able to upload a revised subscribers' list. Do you want to proceed?

Cancel **Proceed**

Success

Your subscriber data for the following SAC(s) has been successfully submitted to the Randomizer:

1) SAC: 613004
2) SAC: 250283

Please proceed to the Randomizer page to generate and download your randomized sample(s).
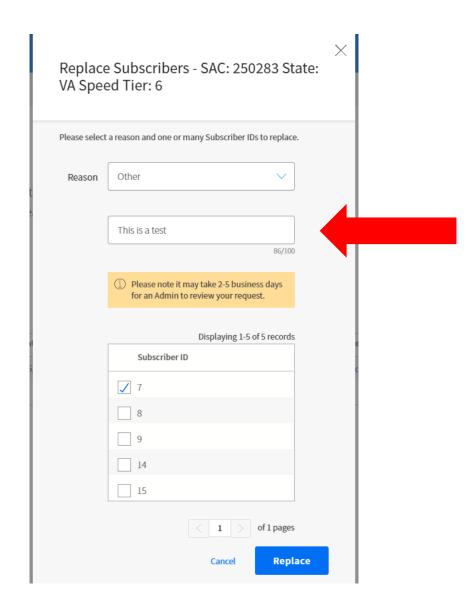
Okay

Read and be sure you have uploaded
All subscribers for All SACs
before clicking Proceed

Step 5 – Generate Samples

Step 6 – Download Samples

Step 6 – Download Samples

Subscriber Sample Data File

	A	B	C	D	E	F	G	H	I	J
1	SAC	Latitude	Longitude	State	Address	Speed Tier	# of Units	Carrier Location ID	HUBB Location ID	Subscriber ID
2	250283	33.91935	-86.4103	VA	ADDRESS /	6	15600	6010201	38712813	7
3	250283	33.89576	-86.3793	VA	ADDRESS /	6	200	6010202	38712814	8
4	250283	33.89783	-86.3591	VA	ADDRESS /	6	6300	6010203	38712815	9
5	250283	33.89566	-86.3798	VA	ADDRESS /	6	200	6010202	38712820	14
6	250283	33.89784	-86.3591	VA	ADDRESS /	6	6300	6010203	38712821	15

Manage Sample
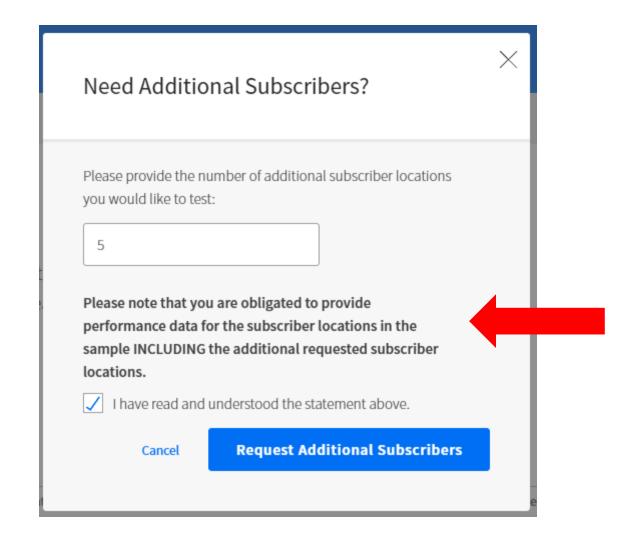
Replace Subscriber(s)
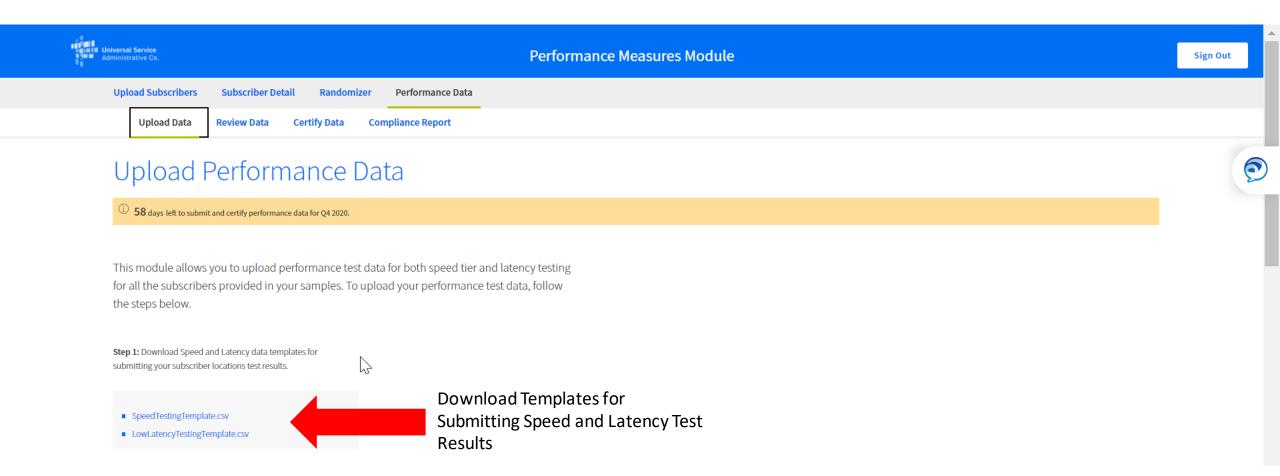
Replace Subscriber(s) – Other Reason Code

Additional Subscribers

Need Additional Subscribers?

Please provide the number of additional subscriber locations you would like to test:

5

Please note that you are obligated to provide performance data for the subscriber locations in the sample INCLUDING the additional requested subscriber locations.

☑ I have read and understood the statement above.

Cancel   **Request Additional Subscribers**

Step 7 – Submit Performance Data – Speed and Latency Test Results

Download Templates for Submitting Speed and Latency Test Results

Step 7 – Submit Performance Data – Speed Test Results
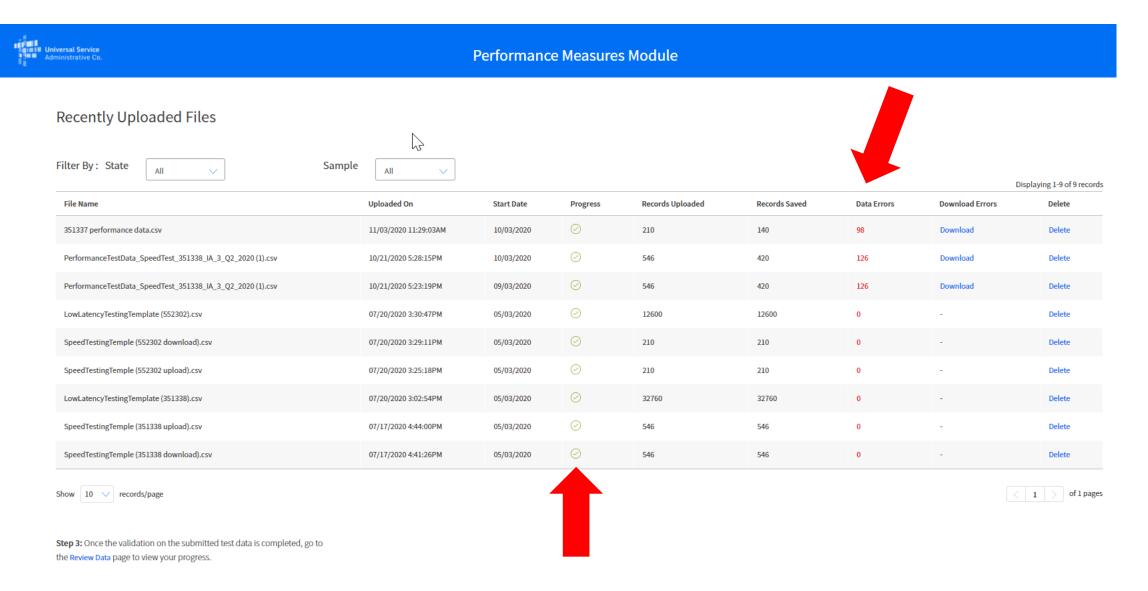
Speed Testing Template Sample

	HUBB Location ID	Subscriber ID	Speed Type	IP Target	Start Test	End Test	Bytes	Test Status	Comment
1	HUBB Location ID	Subscriber ID	Speed Type	IP Target	Start Test	End Test	Bytes	Test Status	Comment
2	12345678	2	1	64.XXX.X.X	2020-10-03 23:00:03:000-06:00	2020-10-03 23:00:05:000-06:00	1	1	
3	12345678	2	1	64.XXX.X.X	2020-10-04 23:00:03:000-06:00	2020-10-04 23:00:05:000-06:00	1	1	
4	12345678	2	1	64.XXX.X.X	2020-10-10 23:00:03:000-06:00	2020-10-10 23:00:05:000-06:00	1	1	
5	12345678	2	1	64.XXX.X.X	2020-10-06 23:00:03:000-06:00	2020-10-06 23:00:05:000-06:00	1	1	
6	12345678	2	1	64.XXX.X.X	2020-10-07 23:00:03:000-06:00	2020-10-07 23:00:05:000-06:00	1	1	
7	12345678	2	1	64.XXX.X.X	2020-10-08 23:00:03:000-06:00	2020-10-08 23:00:05:000-06:00	1	1	
8	12345678	2	1	64.XXX.X.X	2020-10-09 23:00:03:000-06:00	2020-10-09 23:00:05:000-06:00	1	1	
9	12345678	3	1	64.XXX.X.X	2020-10-03 23:00:03:000-06:00	2020-10-03 23:00:05:000-06:00	1	1	
10	12345678	3	1	64.XXX.X.X	2020-10-04 23:00:03:000-06:00	2020-10-04 23:00:05:000-06:00	1	1	
11	12345678	3	1	64.XXX.X.X	2020-10-10 23:00:03:000-06:00	2020-10-10 23:00:05:000-06:00	1	1	
12	12345678	3	1	64.XXX.X.X	2020-10-06 23:00:03:000-06:00	2020-10-06 23:00:05:000-06:00	1	1	
13	12345678	3	1	64.XXX.X.X	2020-10-07 23:00:03:000-06:00	2020-10-07 23:00:05:000-06:00	1	1	
14	12345678	3	1	64.XXX.X.X	2020-10-08 23:00:03:000-06:00	2020-10-08 23:00:05:000-06:00	1	1	
15	12345678	3	1	64.XXX.X.X	2020-10-09 23:00:03:000-06:00	2020-10-09 23:00:05:000-06:00	1	1	
16	12345678	4	1	64.XXX.X.X	2020-10-03 23:00:03:000-06:00	2020-10-03 23:00:05:000-06:00	1	1	
17	12345678	4	1	64.XXX.X.X	2020-10-04 23:00:03:000-06:00	2020-10-04 23:00:05:000-06:00	1	1	
18	12345678	4	1	64.XXX.X.X	2020-10-10 23:00:03:000-06:00	2020-10-10 23:00:05:000-06:00	1	1	
19	12345678	4	1	64.XXX.X.X	2020-10-06 23:00:03:000-06:00	2020-10-06 23:00:05:000-06:00	1	1	
20	12345678	4	1	64.XXX.X.X	2020-10-07 23:00:03:000-06:00	2020-10-07 23:00:05:000-06:00	1	1	
21	12345678	4	1	64.XXX.X.X	2020-10-08 23:00:03:000-06:00	2020-10-08 23:00:05:000-06:00	2075900	1	
22	12345678	4	1	64.XXX.X.X	2020-10-09 23:00:03:000-06:00	2020-10-09 23:00:05:000-06:00	2075900	1	

SpeedTestingTemplate-sample

Step 7 – Submit Performance Data –Latency Test Results

Latency Testing Template Sample
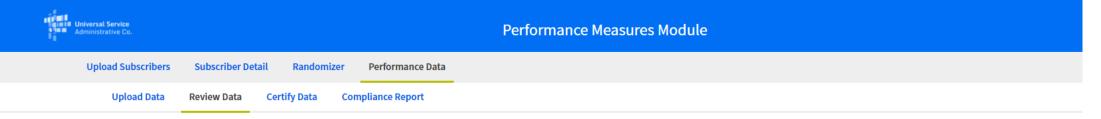
	A	B	C	D	E	F	G	H	I	J
1	HUBB Location ID	Subscriber ID	IP Target	Start Test	Latency	Packets sent	Packets received	Test Status	Comment	
2	12345678	2	64.XXX.X.X	2020-10-03 23:00:03:000-06:00	75	3	3	1		
3	12345678	2	64.XXX.X.X	2020-10-04 23:00:03:000-06:00	75	3	3	1		
4	12345678	2	64.XXX.X.X	2020-10-10 23:00:03:000-06:00	75	3	3	1		
5	12345678	2	64.XXX.X.X	2020-10-06 23:00:03:000-06:00	75	3	3	1		
6	12345678	2	64.XXX.X.X	2020-10-07 23:00:03:000-06:00	75	3	3	1		
7	12345678	2	64.XXX.X.X	2020-10-08 23:00:03:000-06:00	75	3	3	1		
8	12345678	2	64.XXX.X.X	2020-10-09 23:00:03:000-06:00	75	3	3	1		
9	12345678	3	64.XXX.X.X	2020-10-03 23:00:03:000-06:00	75	3	3	1		
10	12345678	3	64.XXX.X.X	2020-10-04 23:00:03:000-06:00	75	3	3	1		
11	12345678	3	64.XXX.X.X	2020-10-10 23:00:03:000-06:00	75	3	3	1		
12	12345678	3	64.XXX.X.X	2020-10-06 23:00:03:000-06:00	75	3	3	1		
13	12345678	3	64.XXX.X.X	2020-10-07 23:00:03:000-06:00	75	3	3	1		
14	12345678	3	64.XXX.X.X	2020-10-08 23:00:03:000-06:00	75	3	3	1		
15	12345678	3	64.XXX.X.X	2020-10-09 23:00:03:000-06:00	75	3	3	1		
16	12345678	4	64.XXX.X.X	2020-10-03 23:00:03:000-06:00	75	3	3	1		
17	12345678	4	64.XXX.X.X	2020-10-04 23:00:03:000-06:00	75	3	3	1		
18	12345678	4	64.XXX.X.X	2020-10-10 23:00:03:000-06:00	75	3	3	1		
19	12345678	4	64.XXX.X.X	2020-10-06 23:00:03:000-06:00	75	3	3	1		
20	12345678	4	64.XXX.X.X	2020-10-07 23:00:03:000-06:00	75	3	3	1		
21	12345678	4	64.XXX.X.X	2020-10-08 23:00:03:000-06:00	75	3	3	1		
22	12345678	4	64.XXX.X.X	2020-10-09 23:00:03:000-06:00	75	3	3	1		

LowLatencyTestingTemplate (7)

Step 7 – Submit Performance Data – Speed and Latency Test Results

Step 7 – Submit Performance Data – Speed and Latency Test Results

Performance Measures Module

Recently Uploaded Files

Filter By : State   [All ▼]   **Sample**   [All ▼]

Displaying 1-9 of 9 records

File Name	Uploaded On	Start Date	Progress	Records Uploaded	Records Saved	Data Errors	Download Errors	Delete
351337 performance data.csv	11/03/2020 11:29:03AM	10/03/2020	✓	210	140	98	Download	Delete
PerformanceTestData_SpeedTest_351338_IA_3_Q2_2020 (1).csv	10/21/2020 5:28:15PM	10/03/2020	✓	546	420	126	Download	Delete
PerformanceTestData_SpeedTest_351338_IA_3_Q2_2020 (1).csv	10/21/2020 5:23:19PM	09/03/2020	✓	546	420	126	Download	Delete
LowLatencyTestingTemplate (552302).csv	07/20/2020 3:30:47PM	05/03/2020	✓	12600	12600	0	-	Delete
SpeedTestingTemple (552302 download).csv	07/20/2020 3:29:11PM	05/03/2020	✓	210	210	0	-	Delete
SpeedTestingTemple (552302 upload).csv	07/20/2020 3:25:18PM	05/03/2020	✓	210	210	0	-	Delete
LowLatencyTestingTemplate (351338).csv	07/20/2020 3:02:54PM	05/03/2020	✓	32760	32760	0	-	Delete
SpeedTestingTemple (351338 upload).csv	07/17/2020 4:44:00PM	05/03/2020	✓	546	546	0	-	Delete
SpeedTestingTemple (351338 download).csv	07/17/2020 4:41:26PM	05/03/2020	✓	546	546	0	-	Delete

Show [10 ▼] records/page   [<] 1 [>] of 1 pages

Step 3: Once the validation on the submitted test data is completed, go to the Review Data page to view your progress.

Step 7 – Submit Performance Data – Speed and Latency Test Results

Performance Data Download Errors Export

Step 8 – Review Performance Data – Speed and Latency Test Results

Step 8 – Review Performance Data – Speed and Latency Test Results

Step 9 – Certify Performance Data – Speed and Latency Test Results

Step 9 – Certify Performance Data – Speed and Latency Test Results

Compliance Report

Compliance Report

Compliance Report Export

	A	B	C	D	E	F	G	H	I	J
1	SAC	State	Speed Tie	Test Type	# of Tests	# of Tests	Complian	Compliance Level		
2	123456	IA	3	DL Speed	1204	896	-	Incomplete		
3	123456	IA	3	Low Laten	119887	6113	-	Incomplete		
4	123456	IA	3	UL Speed	1428	672	-	Incomplete		
5	789012	IA	2	DL Speed	41	99	-	Incomplete		
6	789012	IA	2	Low Laten	0	0	-	Incomplete		
7	789012	IA	2	UL Speed	0	0	-	Incomplete		
8	354567	IA	3	DL Speed	371	175	-	Incomplete		
9	354567	IA	3	Low Laten	32760	0	-	Incomplete		
10	354567	IA	3	UL Speed	241	305	-	Incomplete		
11	890123	NV	3	DL Speed	92	118	-	Incomplete		
12	890123	NV	3	Low Laten	12600	0	-	Incomplete		
13	890123	NV	3	UL Speed	93	117	-	Incomplete		
14	456789	MP	3	DL Speed	1176	924	-	Incomplete		
15	456789	MP	3	Low Laten	119298	6702	-	Incomplete		
16	456789	MP	3	UL Speed	1175	925	-	Incomplete		
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										

ComplianceReport_Q4_2020 Sample

Compliance Report

Universal Service
Administrative Co.

ⓘ One or more of your samples are incomplete or in compliance gap.

↓ Download Report

Displaying 1-10 of 17 records

SAC	State ▲	Speed Tier	Test Type	# of Tests Compliant	# of Tests Non-Compliant	Compliance %	Compliance Level ▲
	IA	2	UL Speed	0	0	-	Incomplete
	IA	3	UL Speed	241	305	-	Incomplete
	IA	3	UL Speed	373	42	-	Incomplete
	IA	3	UL Speed	1428	672	-	Incomplete
	IA	3	DL Speed	0	42	-	Incomplete
	IA	3	DL Speed	371	175	-	Incomplete
	IA	2	DL Speed	41	99	-	Incomplete
	IA	3	DL Speed	1204	896	-	Incomplete
	IA	2	Low Latency	0	0	-	Incomplete
	IA	3	Low Latency	119887	6113	-	Incomplete

Show [10 ⌄] records/page

< [1] > of 2 pages

Performance Measures Testing

For more information about performance measures testing,

please visit the Performance Measures Page

on the High Cost Website:

https://www.usac.org/high-cost/annual-requirements/performance-measures-testing/

Resources include:

FCC information about the performance measures testing program

Charts showing acceptable test paths and remote server locations

List of vendors that are helping carriers with speed and latency testing

Quick tips guide to the PMM

Other CAF Resources

[HUBB Resources Page](#)

[HUBB FAQs](#)

[Guide to Geolocation Practices](#)

[Verification Resources page](#)

[Multifactor Authentication Troubleshooting Steps](#)
(for E-File access)

Questions?