

A man with a beard is shown in profile, looking at a tablet device. He is standing in a field where rows of crops are covered with white plastic sheeting. The background shows a cloudy sky. The entire image has a blue color cast.

Connect America Fund: Performance Measures Testing and New Sample Generation

December 5, 2023



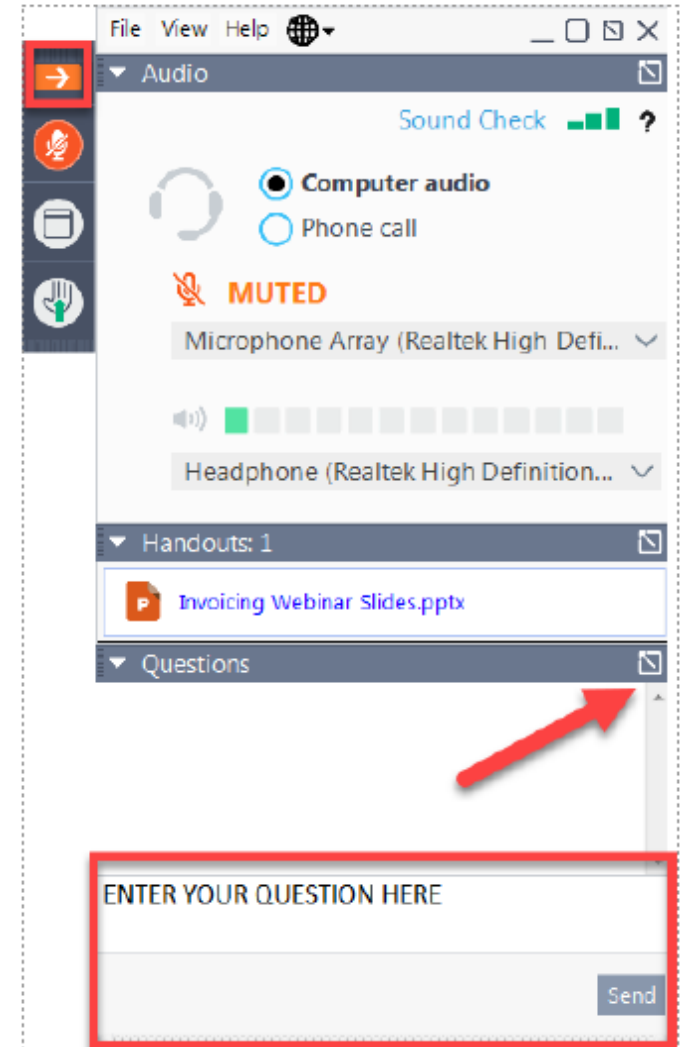
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Today's Speakers

- **John Putman**

Communications Specialist | High Cost

- **Ajay Ramesh**

Product Manager | High Cost IT

A man with a beard is shown in profile, looking at a tablet device. He is standing in a field of solar panels. The entire image has a blue color cast. The background shows a cloudy sky and a field of solar panels stretching into the distance.

Connect America Fund: Performance Measures Testing and New Sample Generation

December 5, 2023



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High Cost and the Connect America Fund (CAF)

The High Cost program ensures universal availability of essential telecommunications services in rural America

- **Legacy Voice Funds**
 - Subsidize voice service to provide universal access to basic phone lines
 - Calculate support based on carrier costs
 - Provide support to traditional rural telephone companies
 - Are subject to USAC audit process
- **Modernized Broadband Funds (Connect America Fund)**
 - Subsidize broadband to support advanced communications networks and high-speed Internet access
 - Use cost models and competitive bidding to give carriers fixed payments to deploy broadband with minimum speeds to a defined number of rural locations by interim and final milestone deadlines
 - Provide support to traditional rural phone companies, rural electric cooperatives, cable operators, wireless operators, wireless Internet service providers, satellite providers
 - Are subject to CAF compliance framework to ensure required deployment

Connect America Fund Compliance

USAC closely monitors carrier compliance with broadband deployment obligations to ensure that carriers are using CAF support to build out high-speed Internet access that meets minimum speed and latency standards to required location counts by relevant deployment milestone deadlines in rural areas eligible for funding.

Compliance process consists of several steps:

HUBB Portal: Tracking Broadband Deployment

Verification Reviews: Confirming Broadband Deployment

Network Performance Testing: Measuring Speed and Latency

Final Audit Site Visits

This compliance framework safeguards Connect America Fund accountability, transparency and integrity.

A man with a beard is shown in profile, looking at a tablet device. He is standing in a field of solar panels. The entire image has a blue color overlay. The text 'HUBB Portal: Tracking Broadband Deployment' is centered in white.

HUBB Portal: Tracking Broadband Deployment

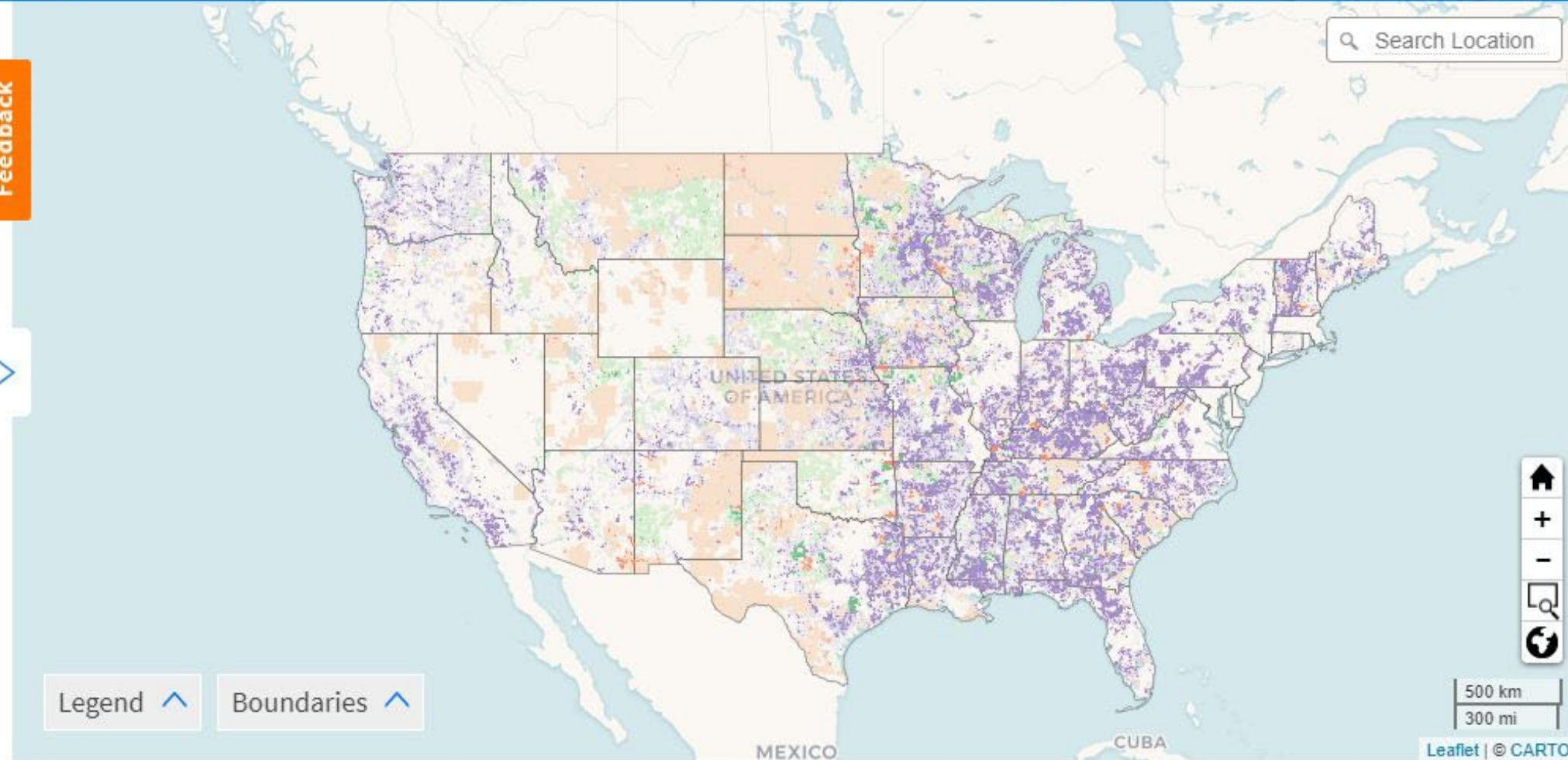


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HUBB Portal: Tracking Broadband Deployment

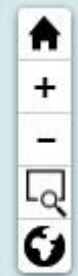
- Carriers in modernized funds with defined fixed broadband build-out obligations must file deployment data annually with the HUBB
- **Annual HUBB filing deadline is March 1 for carriers to report broadband deployed with CAF support in the prior calendar year or certify “no locations to upload” for the year**
- HUBB collects: geographic coordinates (latitude/longitude) of locations where carriers are deploying broadband with CAF support, speeds available (speed tier) and deployment dates
- HUBB performs automated, real-time validation of data and only accepts locations that pass all checks:
 - Checks that lat/long of a reported location fall within area eligible for funding
 - Checks that the location is not a duplicate of one already submitted
 - Checks that date of deployment falls within fund timeline
- HUBB tracks carrier progress toward meeting interim and final deployment milestones.
- **Accurate geolocation data is key to filing successfully in the HUBB**
 - See USAC guide on geolocation best practices
- HUBB dataset is foundation for CAF Map

Feedback



Search Location

Legend Boundaries



500 km
300 mi

Leaflet | © CARTO

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
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HUBB Portal: Filing Obligations by Fund

Carriers in these funds (and ACS) have until March 1, 2024, to file data for locations deployed in 2023 or certify “no locations to upload”:

- **Alternative Connect America Cost Model (ACAM)**
- **Revised ACAM**
- **ACAM II**
- **Connect America Fund Broadband Loop Support (CAF BLS)**
 - HUBB will only accept CAF BLS locations deployed since May 25, 2016
- **Connect America Fund (CAF) Phase II Auction (CAF II Auction)**
- **Rural Digital Opportunity Fund (RDOF)**
 - RDOF carriers must submit any locations deployed since July 1, 2019
- **Rural Broadband Experiments (RBE)**
- **Alaska Plan** (other than carriers with individualized performance plans)
 - Alaska Plan carriers must also submit node and link data for middle mile fiber and microwave networks
- **Bringing Puerto Rico Together (Uniendo a Puerto Rico) and Connect USVI Fund (PR/USVI) Stage 2 Fixed Support**

HUBB Portal: Certifying Broadband Deployment

- Carriers have until **March 1, 2024**, to file and certify data for locations deployed in 2023
- Carriers that do not deploy locations in 2023 must certify “no locations to upload” by March 1, 2024
 - **New this year: “No locations to upload” certification functionality only available between Jan. 1-March 1, 2024**
 - USAC has reverted all “No locations to upload” certifications for carriers that have already completed this certification for 2023
 - These carriers must complete this certification again between Jan. 1-March 1, 2024.
- Carriers that do deploy in 2023 can file and certify locations throughout the year
- **New this year: All carriers must complete a new annual certification to confirm that their filing activity for 2023 is complete, or that they have no locations to upload for the year, with an additional certification between Jan. 1-March 1, 2024**
- **Carriers with 2023 deployment milestones must also complete a separate milestone certification, including separate milestone certifications for separate deployment obligations by speed tier**
 - Carriers may face verification reviews of their 2023 milestones in 2024 to confirm deployment to a random sample of reported locations

HUBB Portal: Tracking Broadband Deployment

**For more information about filing in the HUBB,
please visit the HUBB resources webpage:**

<https://www.usac.org/high-cost/annual-requirements/submit-data-in-the-hubb/>

Resources include:

HUBB [FAQs](#)

USAC [Guide](#) to Geolocation Practices

FCC [Guidance](#) on Location Reporting

[HUBB User Guide](#) and [Data Formatting Instructions](#)

Templates for [data uploads](#), [bulk deletions](#) and [bulk modifications](#)

HUBB webinar [recording](#)

HUBB webinar [presentation](#)

A man with a beard is shown in profile, looking at a tablet device. He is standing in a field of solar panels. The entire image has a blue color cast. The text is overlaid in the center-right area.

Verification Reviews: Confirming Broadband Deployment



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Verification Reviews: Confirming Broadband Deployment

All carriers participating in CAF programs with defined broadband build-out obligations are subject to verification reviews to confirm reported deployment. Verification reviews fall into three main categories:

- Reviews tied to mandatory annual deployment milestones that begin following the annual March 1 HUBB filing deadline
 - **Original/Revised ACAM, ACAM II, CAF II Auction** and **CAF BLS** carriers may face reviews in 2024
- Reviews conducted at the request of carriers that complete deployment ahead of required milestones (meet optional milestones) and are seeking to reduce their Letters of Credit (LOC) values
 - **RDOF** and **PR/USVI** carriers can request review of an optional 20 percent deployment milestone
- Reviews conducted as part of the FCC Rural Broadband Accountability Plan (RBAP)
 - These reviews can occur before required deployment milestones even if a carrier does not request a review to reduce a LOC

(Carriers may also be subject to site visit audits following final deployment milestones)

Carriers found to have missed deployment milestones face increased reporting obligations and potential withholding/recovery of support

Verification Reviews: Confirming Broadband Deployment

The goal of the verification review process is to confirm that a carrier deployed broadband service meeting the FCC's performance standards to a qualifying number of locations by the relevant deployment milestone deadline. USAC selects a statistically valid, random sample of locations certified in the HUBB by carriers chosen for review and seeks to verify that:

- The structure at the reported location is eligible for CAF support
- The reported service address accurately corresponds with the reported lat/long coordinates
- The upload and download speeds available are at or above the speeds the carrier must deliver
- The carrier deployed service at the required speeds in time to meet the deployment milestone
- The actual number of units or dwellings at the location accurately ties back to the reported number of units or dwellings for the location record

Verification Reviews: Confirming Broadband Deployment

Carriers must submit documentation that serves as proof of deployment for each location record in the HUBB selected for verification review. Examples of acceptable documentation include:

- Subscriber bills
- Screen shots from public-facing service availability tool showing upload/download speeds available at a particular address
- Letters of certification certified by an outside engineer licensed by the state (including Professional Engineer number) where service was deployed
- Screen shots from an internal provisioning system showing the broadband speeds available at a particular service address (and associated geo-coordinates if available)
- DSLAM construction project completion sign-off sheets that releases all locations tied to this DSLAM to sales for marketing
- Engineering team emails showing that all locations tied to a particular DSLAM are released to sales for marketing

Verification Reviews: Confirming Broadband Deployment

For more information about the verification review process,
please visit the verification resources webpage:

<https://www.usac.org/high-cost/resources/fund-verification-reviews/>

Resources include:

Verification webinar [recording](#)

Verification webinar [presentation](#)

Verification review schedule (by fund)

Examples of the types of documentation that carriers can supply to prove deployment

A man with a beard, wearing a dark t-shirt, is shown in profile from the waist up, looking at a tablet computer he is holding with both hands. He is standing in a field. In the background, there are several rows of solar panels mounted on a structure, possibly a greenhouse or a solar farm. The sky is filled with large, white clouds. The entire image has a blue color cast.

Network Performance Testing: Measuring Broadband Speed and Latency



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Network Performance Testing: Measuring Speed and Latency

- Framework ensures that CAF-supported broadband service meets basic performance measures standards
- Carriers must conduct one week of speed and latency testing at a random sample of CAF-supported locations with active subscribers in each quarter of the year, and submit and certify all test results for all selected locations (unless subject to FCC waiver) for all four quarters in the PMM by the following July 1
 - Coming soon: FCC will require carriers to report test results within two weeks of the end of the quarter (timing of this new mandate is still TBD)
- At least 80 percent of speed measurements must be at 80 percent of required speeds and 95 percent of low-latency measurements must fall at or below 100 milliseconds round-trip time
 - FCC considers failure to meet speed and latency standards as a failure to deploy and may withhold support
- Before official testing begins, carriers must conduct a year of quarterly “pre-testing”
 - Carriers must submit and certify all test results for all selected locations (unless subject to FCC waiver) in the PMM within one week of the end of the quarter, but will not face withholding of support for failing to meet speed and latency standards
- USAC provides quarterly compliance reports during pre-testing – and to carriers that file and certify test data within one week of the end of the quarter during official testing - to help carriers track their progress

Network Performance Testing: Performance Measures Module

- Lets carriers identify which locations deployed with CAF support and reported in the HUBB have active subscribers
- Generates a random sample of locations for speed and latency testing and provides the obligated speed tiers to be tested (based on the speed tiers reported for those locations in the HUBB compared with the speeds carriers are required to deliver)
 - For funds with multiple speed tiers, the obligated speed tier to be tested for some locations may not be the same as the speed tier reported for that location in the HUBB
 - Carriers must obtain a new sample after two years of pre-testing/testing
- Collects the speed and latency test results from carriers
- Calculates compliance with performance measures standards based on certified test results
 - Carriers can download compliance reports that provide details at the SAC level about the percent of upload and download speed tests and latency tests that met FCC network performance standards
 - See USAC website for a detailed explanation of how the PMM calculates compliance

Network Performance Testing: Testing Obligations by Fund

Carriers in these funds (and ACS) have until Dec. 31, 2023, to complete one week of fourth quarter testing:

- Carriers in these funds began quarterly pre-testing in January of 2022 and quarterly official testing in January of 2023 (cycle year: CY2022_23), and are now in their first year of quarterly official testing:

- **Alternative Connect America Cost Model II (ACAM II)**
- **Connect America Fund-Broadband Loop Support (CAF BLS)**
- **Connect America Fund (CAF) Phase II Auction**

These carriers (and ACS) must obtain new random samples for ongoing quarterly testing next year (cycle year: CY2024_25)

- **New: CAF BLS carriers out of compliance for 2023 can request statistically valid sample**

- Carriers in these funds began quarterly pre-testing in January of 2021 and quarterly official testing in January of 2022 (cycle year: CY2021_22), and are now in their second year of quarterly official testing (cycle year: CY2023_24):

- **Alternative Connect America Cost Model (ACAM) and Revised ACAM**
- **Rural Broadband Experiments (RBE)**
- **Alaska Plan**

Network Performance Testing: Upcoming Obligations by Fund











- **Bringing Puerto Rico Together (Uniendo a Puerto Rico) Fund and the Connect U.S. Virgin Islands (PR/USVI) Fund**
 - Will begin quarterly pre-testing in January of 2024 and quarterly official testing in January of 2025 (cycle year: CY2024_25)
 - These carriers must obtain random samples for quarterly pre-testing that starts next year
- **Rural Digital Opportunity Fund (RDOF)**
 - Will begin quarterly pre-testing in January of 2025 and quarterly official testing in January of 2026
- **Enhanced Alternative Connect America Cost Model (Enhanced ACAM)**
 - Will begin quarterly pre-testing in January of 2026 and quarterly official testing in January of 2027
 - Carriers moving to Enhanced ACAM must complete a week of testing with their current funds (Original ACAM, Revised ACAM or CAF BLS) in the fourth quarter of 2023
 - USAC encourages these carriers to continue quarterly testing with their current funds in 2024 – particularly if they are at risk of being out of compliance with 2023 testing since passing quarterly results for 2024 can bring them back into compliance

Network Performance Testing: Tracking Compliance

- **Carriers currently have until July 1, 2024, to submit and certify results from testing conducted in all four quarters of 2023, but USAC encourages carriers to file and certify quarterly**
- USAC provides quarterly compliance reports to carriers that file and certify test results within one week of the end of the quarter to help them track their progress and address any shortfalls
 - **First and second quarter compliance reports are currently available in the PMM for carriers that submitted and certified test data quarterly**
 - **Carriers should check these compliance now to find out if their test results did not meet FCC standards or if they didn't submit all required test data**
 - Carriers that did not meet FCC speed and latency standards for 2023 testing can potentially avoid penalties by submitting passing quarterly results for 2024
 - **CAF BLS carriers out of compliance for 2023 can request a statistically valid sample**
 - Carriers still have time to submit missing data
- USAC will not withhold support from carriers that file and certify data on a quarterly basis and fail to meet speed and latency metrics before evaluating certified data for the full year
- USAC will only calculate final performance compliance – and withhold support from carriers that fail to meet speed and latency requirements – after carriers submit and certify test data for the entire year

Network Performance Testing: Tracking Compliance

Displaying 1-10 of 6618 records

Fund	SAC	State	Speed Tier	Test Type	Sample Size Met	# of Tests Certified	Compliance %	Compliance Level ▲	Actions
CAFII		AK	3	UL Speed	Passed	2100	100 %	Fully Compliant	
CAFII		AK	3	DL Speed	Passed	2100	100 %	Fully Compliant	
CAFII		AK	3	Low Latency	Passed	126000	100 %	Fully Compliant	
ACAM		AK	2	UL Speed	Passed	1680	100 %	Fully Compliant	
ACAM		AK	3	UL Speed	Passed	2100	100 %	Fully Compliant	
ACAM		AK	4	UL Speed	Passed	2100	100 %	Fully Compliant	
ACAM		AK	2	UL Speed	Passed	210	100 %	Fully Compliant	
ACAM		AK	3	UL Speed	Passed	252	100 %	Fully Compliant	
ACAM		AK	4	UL Speed	Passed	210	100 %	Fully Compliant	
ACAM		AK	2	DL Speed	Passed	1680	100 %	Fully Compliant	

Network Performance Testing: Obtaining Random Samples

To generate random samples for testing, carriers must complete the following steps:

- Download their certified HUBB locations into a comma separated value (CSV) file
- Determine which HUBB locations have active subscribers
- Add a carrier-generated, alpha-numeric subscriber ID to the CSV template to serve as a unique identifier for each HUBB location with an active subscriber
 - Carriers should not use any personally identifiable information (such as a customer phone number or social security number) in a subscriber ID
- Upload the CSV template to PMM
- Once all subscriber location data has been uploaded and certified, select “Submit to Randomizer” in PMM
- Generate a random sample of locations in PMM
- Download the sample with the locations and obligated speed tiers to be tested

Network Performance Testing: Obtaining Random Samples

- Carriers should be certain that their broadband deployment information in the HUBB is as up-to-date, accurate and complete as possible before obtaining random samples from the PMM
 - Carriers that do not have locations in HUBB yet must start testing within one quarter after they do
- Carriers cannot delete HUBB records, or edit or modify the number of units for HUBB records, for subscriber locations that have been randomly selected for speed and latency testing during the two years when those locations are part of the testing sample
- Carriers should only request a random sample one time and should not alter uploaded subscriber location data or request a new sample once a sample is generated for a SAC
- Sample sizes are determined by number of active subscribers submitted to the PMM - up to 50 locations
- For funds with multiple speed tiers, the obligated speed tier to be tested for some locations may not be the same as the speed tier reported for that location in the HUBB
- New sample may contain some of the same subscriber locations that are in existing sample

Network Performance Testing: Managing Random Samples

- Replacing subscribers
 - To replace a selected subscriber with the next randomly selected one, a carrier must provide a reason:
 - 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
- Adding subscribers
 - Carriers may request additional randomly selected subscribers to test, but are responsible for submitting test data for any additional subscribers
- No Valid Subscribers
 - Carriers that cannot find five active subscribers to test are subject to verification that more subscribers are not available

Performance Measures Module: New Functionality

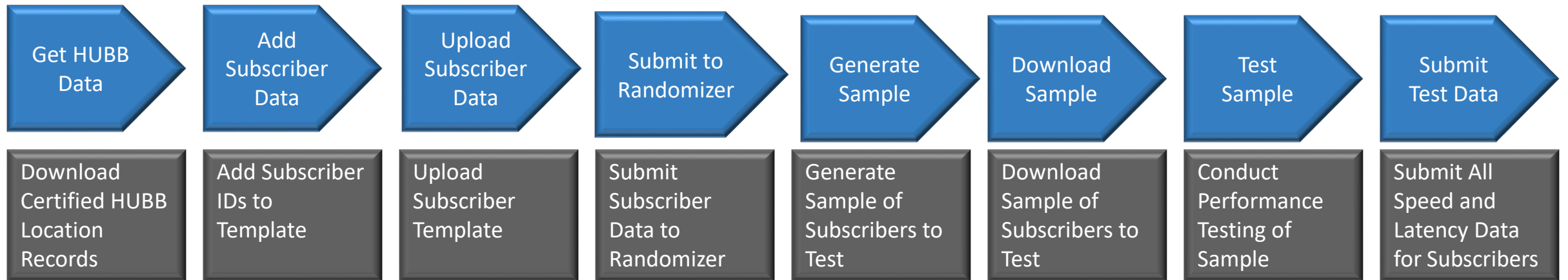
- **Review Expected Sample** page (located under the randomizer menu in the PMM)
 - Displays the samples that the system expects to generate based on a carrier's current SAC entitlements, speed tier obligations in the HUBB and uploaded subscriber location data
 - System now tracks carrier progress in uploading test data for each expected sample
- **No Subscriber Attestation** (quarterly)
 - Allows a carrier to attest that it does not have any active subscriber locations to upload – and therefore cannot generate a sample - for a particular cycle/fund/SAC/state/speed tier combination
 - Requires carrier to provide an explanation for lack of active subscribers

Network Performance Testing: Measuring Speed and Latency

Carriers must:

- Test up to 50 locations for each speed tier they are required to deploy to in each state where they receive support
 - Sample sizes are determined by the number of active subscribers submitted to PMM
- Conduct testing at all selected locations (unless subject to FCC waiver)
- Meet separate testing requirements for each fund in which they participate
- Use the same subscriber locations for both speed and latency testing
- Provide subscribers at selected locations with necessary CPE (modem, router) at no extra cost
- Test from customer premises to a remote test server located at, or reached by passing through, FCC-designated IXP
 - FCC rules provide allowance for crosstalk caused by consumer activity
- Conduct all speed tests in same week and all latency tests in same week
 - Speed and latency tests may take place in different weeks
- Conduct testing between 6 p.m. and 12 a.m. local time
- Certify all test results for all locations using separate CSV files for speed and latency results

Network Performance Testing: PMM Process Flow



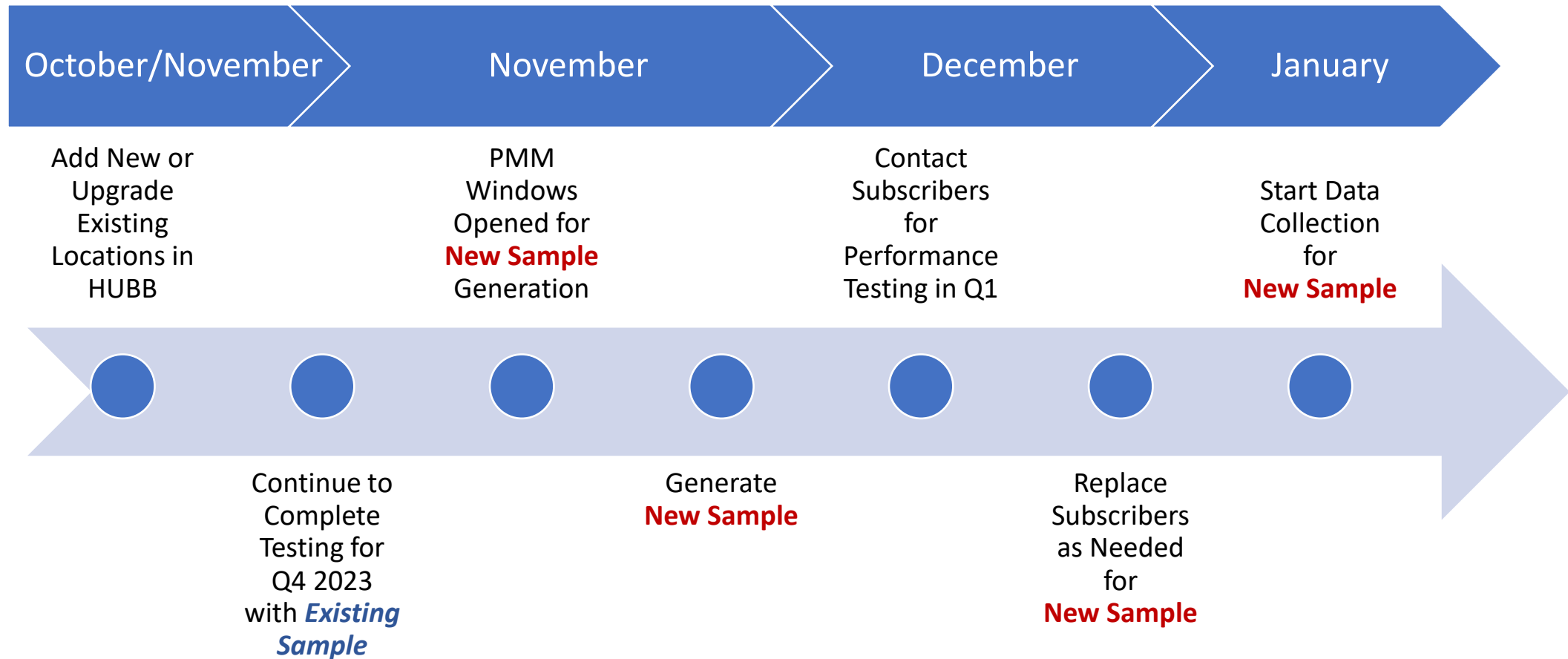
Remember
To Certify Your
PMM Data



Network Performance Testing: Obtaining New Samples

- **PMM is ready to accept subscriber location data from ACAM II, CAF BLS, CAF II Auction and PR/USVI carriers (and ACS) and generate random subscriber location samples for these carriers to begin or continue quarterly speed and latency testing in 2024.** Carriers can now:
 - Upload all subscriber locations, submit to randomizer, and generate/download sample(s)
- **Carriers should start this process ASAP to have enough time to prepare for testing in 2024!**
- New samples should reflect new deployments, new subscribers and network upgrades (upgraded speed tiers)
 - Carriers should be sure that their broadband deployment information in the HUBB is as up-to-date, accurate and complete as possible before requesting a new sample
 - Obligated speed tiers for locations already in the HUBB are now locked, but carriers can edit lat/long coordinates and address information and add new deployments
 - **While carriers have until March 1, 2024 to submit broadband locations built in 2023 to the HUBB, USAC encourages carriers to file 2023 deployments as soon as possible so those locations can potentially be included in random samples**
 - USAC is using a special process to generate new random samples for CAF BLS carriers with fewer than 150 locations in the HUBB

Network Performance Testing: Timeline for Obtaining New Samples



Performance Measures Module



Upload Subscriber List

AK PLAN : 12 days left to Upload Subscribers.

CAFII,ACAMII,CAF BLS,CAFII AUC : 73 days left to Upload Subscribers.

Step 1: You must select both Cycle and Fund to generate HUBB Data. In order for the Funds to display in the dropdown, Cycle must be selected first. The Cycle refers to the two-year time period during which data is collected, including its start year and end year. This file will have a column for you to add your Subscriber IDs.

Select Cycle

Select Fund

Select the proper Cycle

Generate HUBB Data

Start the New Sample process by generating HUBB data

Performance Subscriber Data Upload Template_10-19-2023-10-04-28.csv

Download file with HUBB locations and enter Subscriber IDs

Step 2: Upload the downloaded HUBB Data file with your Subscriber IDs by Cycle and Fund. The Cycle and Fund in the file must match the Cycle and Fund selected in Step 1. For more information on data validation and formatting rules, click on [Detailed Instructions](#).

Upload Subscriber File

Upload template with Subscriber IDs

Recently Uploaded Files

File Name	Uploaded	Progress	Records Uploaded	Records Saved	Data Errors	Download Errors	Delete
Performance Subscriber Data Upload Template _ACAMII_462203.csv	10/20/2023 10:19:20AM	✔	28155	28155	0	-	Delete
Performance Subscriber Data CAFII AUC 159051.csv	10/19/2023 10:46:30AM	✔	106916	648	106268	Download	Delete
Performance Subscriber Data Upload Template_10-17-2023-15-18-34.csv	10/17/2023 3:41:52PM	✔	56150	56150	0	-	Delete

Subscriber Data Upload Template File



	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Cycle	Fund	SAC	Latitude	Longitude	Address	State	Speed Tie	# of Units	Carrier Loc	HUBB Loc	Subscriber ID(s)	
2	CY2021_22	AK PLAN	613015	61.46269	-149.356	1472 MAIN	AK	12	62070	555	65149866		
3	CY2021_22	AK PLAN	613015	61.45808	-149.37	1472 MAIN	AK	12	62070	555	65149867		
4	CY2021_22	AK PLAN	613015	61.4537	-149.378	1472 MAIN	AK	12	62070	555	65149868		
5	CY2021_22	AK PLAN	613015	61.46065	-149.357	1472 MAIN	AK	12	62070	555	65149869		
6	CY2021_22	AK PLAN	613015	61.45813	-149.352	1472 MAIN	AK	12	62070	555	65149870		
7	CY2021_22	AK PLAN	613015	61.45808	-149.356	1472 MAIN	AK	12	62070	555	65149871		
8	CY2021_22	AK PLAN	613015	61.45395	-149.351	1472 MAIN	AK	12	62070	555	65149872		
9	CY2021_22	AK PLAN	613015	61.41771	-149.179	1472 MAIN	AK	12	62070	555	65149873		
10	CY2021_22	AK PLAN	613015	61.44517	-149.368	1472 MAIN	AK	12	62070	555	65149874		
11	CY2021_22	AK PLAN	613015	61.44282	-149.367	1472 MAIN	AK	12	62070	555	65149875		

Performance Measures Module

Performance Measures Module

[Upload Subscribers](#) [Subscriber Detail](#) [Randomizer](#) [Performance Data](#)

Subscriber Detail



Verify Subscribers

AK PLAN : 12 days left to Submit Subscribers to the Randomizer.

CAFII,ACAMII,CAF BLS,CAFII AUC : 73 days left to Submit Subscribers to the Randomizer.

Below is your list of auto-saved HUBB locations with Subscriber IDs.

Please view the table below to see data for all Cycles, Funds and SACs or use the filter to view data for a specific Cycle, Fund and SAC.

Once you have completed uploading and reviewing your Subscriber data, please press the "Submit to Randomizer" button to send your data to the Randomizer tool.

After you have clicked "Submit to Randomizer", all subscriber data will be sent to the Randomizer tool and will no longer be visible on this page. Test subjects must be randomly selected every two years from among the provider's active subscribers in each service tier in each state. Once subscribers are uploaded for the cycle, carriers can not add additional subscribers until the next sample is generated with the new two-year cycle.

Filter controls for Cycle, Fund, and SAC. Each has a dropdown menu set to "All". A "Clear All" button and a blue "Filter" button are also present.

[Download Filtered Data](#)

Displaying 1-10 of 145 records

Cycle	Fund	SAC	Latitude	Longitude	State	Address	Speed Tier	# of Units	Carrier Location ID	HUBB Location ID	# of Subscriber IDs
CY2021_22	AK PLAN		58.739979	-156.983901	AK	SCHOOL RD ELDERS 5		1		21968530	1
CY2021_22	AK PLAN		58.729772	-156.998303	AK	AGS BUNKHOUSE 85		1		21968540	1
CY2021_22	AK PLAN		58.738565	-156.977944	AK	MAIN OFFICE RED SALMON CANNERY		3		21968542	3
CY2021_22	AK PLAN		58.729646	-156.998195	AK	AGS BUNKHOUSE 86		1		21968549	1
CY2021_22	AK PLAN		58.745064	-156.955229	AK	FLEET OFFICE		1		21968553	1
CY2021_22	AK PLAN		58.745829	-156.952013	AK	NEW BUNKHOUSE DSL SB		2		21968555	2
CY2021_22	AK PLAN		58.744847	-156.995330	AK	MAIN OFFICE AT L&M WEST OF LEADER CREEK FISHERIES		1		21968561	1
CY2021_22	AK PLAN		58.675430	-156.655733	AK	CURRIERS TRIPLEX UNIT #1 ACCROSS FROM LAKE & PEN 5 APT 2		1		21968563	1
CY2021_22	AK PLAN		58.696349	-156.686613	AK	DIAMOND LODGE HOUSE OFF OF SOCKEYE RD		1		21968567	1
CY2021_22	AK PLAN		58.742228	-156.989998	AK	LAST HOUSE ON SALMONBERRY RD NORTH OF CEDARVILLE		1		21968574	1

Show 10 records/page

Revert Randomizer

Submit to Randomizer

1 of 15 pages

Performance Measures Module: Review Expected Sample



New screen: **Review Expected Samples**

Review PMM Expected Sample(s)

On this page you will be able to review the expected sample(s) based on your current SAC and Speed Tier obligation(s). The Expected sample(s) refers to all the sample(s) that you are required to generate and upload performance data for the corresponding PMM cycle.

The Status of each expected sample set represents the current state of your progress and may indicate further actions needed on the following pages: Upload Subscribers, Subscriber Details, and Randomizer.

If you do not have any subscribers for your Fund, SAC, State, speed tier to generate a sample, you have the option to utilize the Attestation feature provided in the PMM Expected Sample List table below. The Attestation link will be enabled under the 'Actions' column for all eligible samples. A carrier is required to attest each testing quarter. During the Attestation process, you must provide a comment explaining the reason for not uploading subscribers for the respective sample.

If no subscribers uploaded for a SAC / Speed Tier combination, Attest that No Subscribers are available

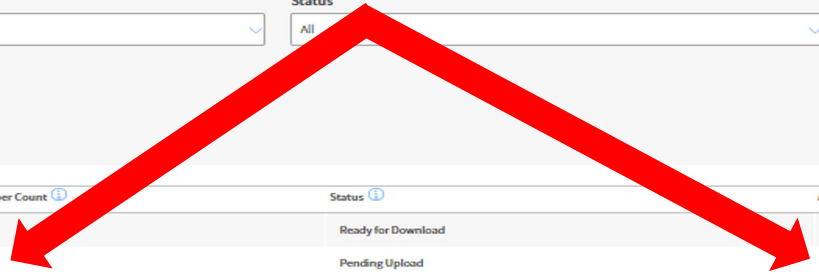
PMM Expected Sample List

ACAM,ACAMII,AK PLAN,CAF BLS,CAFII,CAFII AUC,RBE : 73 days left to make changes to your randomized samples for Q4 2023.

Cycle: All Fund: All State: All Status: All

Clear All Filter

Cycle	Fund	SAC	State	Speed Tier	HUBB Location Count	Subscriber Count	Status	Actions
CY2023_24	ACAM		NH	2	1	1	Ready for Download	-
CY2021_22	ACAM		NH	2	1	0	Pending Upload	Attest
CY2023_24	ACAM		NH	3	51	33	Ready for Download	-
CY2021_22	ACAM		NH	3	51	21	Ready for Download	-
CY2021_22	ACAM		NH	4	1254	228	Ready for Download	-
CY2023_24	ACAM		NH	4	1254	709	Ready for Download	-
CY2023_24	ACAM		VT	2	43	22	Ready for Download	-
CY2021_22	ACAM		VT	2	43	0	Pending Upload	Attest



Performance Measures Module: No Subscriber Attestation

No Subscriber Attestation

As a Certifying Officer I affirm that I have no subscribers to generate a sample for the CY2021_22-ACAM-120045-NH-2 for Q4 2023.

Comment

500/500

Cancel **Submit**

← Certify that you have No Subscribers for this SAC / Speed Tier

Confirmation message →

Attestation Confirmation

✔ You've successfully submitted your No Subscriber Attestation

Attested On: 10/20/2023 12:01 PM
Attested By: pmm_SPO@usac.org

If you have any questions or concerns about the attestation, contact us at hcquestions@usac.org.

Okay

Attested History

Quarter Year	Attested By	Date and Time	Comments
Q4 2023	pmm_SPO@usac.org	10/20/2023 12:01 PM	No subscribers are available for this speed tier.

Close


← View Attestation History

Performance Measures Module

Performance Measures Module

[Upload Subscribers](#) [Subscriber Detail](#) [Randomizer](#) [Performance Data](#)

[Review Expected Samples](#) [Generate Samples](#)

 **Generate Samples Screen**

Randomizer Samples

Generate your randomized data samples below. The amount of subscribers listed in each sample is based on the total number of subscribers in each state for each speed tier within a Fund.

Test subjects must be randomly selected every two years from among the provider's active subscribers in each service tier in each state. Once subscribers are uploaded for the cycle, carriers can not add additional subscribers until the next sample is generated with the new two-year cycle.

Sample List

ACAM,ACAMII,AK PLAN,CAF BLS,CAFII,CAFII AUC,RBE : 73 days left to make changes to your randomized samples for Q4 2023.

Cycle: Fund: State:

[Clear All](#) [Filter](#) **Generate Sample**

Replace Subscribers

Download Subscriber File

Generate Sample	Cycle	Fund	SAC	State	Speed Tier	Created On	Created By	Status	Replace Subscribers	Actions	No Valid Subscribers
Generate	CY2024_25	ACAMII		IA	2	-	-	Pending Generation	-	-	-
-	CY2022_23	ACAMII		IA	4	08/23/2022 04:53:04 PM	rachel@metcteam.com	Ready for Download	Replace	↓ 🔄 +	-
Generate	CY2024_25	ACAMII		IA	4	-	-	Pending Generation	-	-	-
-	CY2022_23	ACAMII		IA	2	12/17/2021 03:33:44 PM	andy.peterson@palmerone.com	Ready for Download	Replace	↓ +	-
Generate	CY2024_25	ACAMII		IA	2	-	-	Pending Generation	-	-	-
-	CY2022_23	ACAMII		IA	4	12/17/2021 03:34:34 PM	andy.peterson@palmerone.com	Ready for Download	Replace	↓ +	-
Generate	CY2024_25	ACAMII		IA	4	-	-	Pending Generation	-	-	-
-	CY2022_23	ACAMII		IA	4	03/07/2022 04:20:07 PM	julie@sullytel.com	Ready for Download	-	↓	🔔
-	CY2022_23	ACAMII		IA	2	01/20/2023 01:44:39 PM	marky@grm.net	Ready for Download	Replace	↓ 🔄 +	-
Generate	CY2024_25	ACAMII		IA	2	-	-	Pending Generation	-	-	-
-	CY2022_23	ACAMII		IA	4	04/03/2023 08:58:03 AM	marky@grm.net	Ready for Download	Replace	↓ 🔄 +	-
Generate	CY2024_25	ACAMII		IA	4	-	-	Pending Generation	-	-	-
-	CY2022_23	ACAMII		MN	2	02/15/2022 03:29:01 PM	bmick@rrv.net	Ready for Download	Replace	↓ +	-

Performance Measures Module

Performance Measures Module

Upload Subscribers Subscriber Detail Randomizer **Performance Data**

Upload Data Review Data Certify Data Compliance Report

Upload Performance Data

← Upload Performance Data Screen

This module allows you to upload performance test data for both speed tier and latency testing for all the subscribers provided in your samples. To upload your performance test data, follow the steps below.

Step 1: Download Speed and Latency data templates for submitting your subscriber locations test results.

- SpeedTestingTemplate.csv
- LatencyTestingTemplate.csv

Step 2: Upload performance test results by selecting the applicable Cycle, Fund, State, Sample, File Type and Start date of your 7-day quarterly data submission period. Performance test results should be collected according to the template you downloaded and only correspond to the sample for which you are uploading performance data. For more information on data validation and formatting rules, click on [Detailed Instructions](#).

Select Cycle	<input type="text" value="CY2022_23"/>
Select Fund	<input type="text" value="ACAMII"/>
Select State	<input type="text" value="MN"/>
Select Sample	<input type="text" value="Select a Sample"/>
Select File Type	<input type="text" value="Select File Type"/>
Select Start Date <small>of 7 day data submission period</small>	<input type="text" value="MM/DD/YYYY"/>

← Select options for data file

Upload Performance Data

← Select file and upload performance data


Performance Measures Module

Performance Measures Module

Upload Subscribers Subscriber Detail Randomizer **Performance Data**

Upload Data **Review Data** Certify Data Compliance Report

Performance Details

 Review Performance Data Screen

Review the performance test results you've submitted and verify that you've met the minimum 7-day data submission requirement at the subscriber level for a given Fund, State, Sample, and File Type below. Performance test results must be certified to be measured for compliance. Please review your current Submission Status for Subscribers and take the appropriate action before the data submission deadline.

Select Testing Quarter

To review your performance data, filter by the fund, state, sample, and file type

1. Fund 2. State 3. Sample 4. Test Type

Test records with Errors

Data Submission Status: CY2023_24-ACAM-613017-AK-2


Displaying 1-10 of 31 records

HUBB Location ID	Subscriber ID	# of Test(s) Submitted	# of Incomplete Test(s)	Submission Status
28665456	104431_9967662071	0	42	E
28665390	104918_9997662315	0	42	E
28666163	105072_9997662422	0	42	E
49964812	105460_9997662707	0	42	E
28665391	106083_9997663126	0	42	E
28665446	106933_9997663678	0	42	E
66409392	107298_9997663936	0	42	E
58912144	107399_9997663993	0	42	E
28662334	107620_9997675414	0	42	E
28662273	107797_9997675488	0	42	E



Show records/page

of 4 pages

 Download file with record errors

Performance Measures Module

Performance Measures Module

Upload Subscribers Subscriber Detail Randomizer **Performance Data**

Upload Data Review Data Certify Data **Compliance Report**

← Certify Performance Data Screen

Certify/View Performance Results

Compliant Window Deadline

① ACAMII : 91 days left to submit and certify performance data for Q4 2023.

① ACAM,ACAMII,AK PLAN,CAF BLS,CAFII,CAFII AUC,RBE : 258 days left to submit and certify performance data for Q3 2023, Q4 2023, Q1 2023 and Q2 2023.

Non-Compliant Window Deadline

① ACAM,ACAMII,AK PLAN,CAF BLS,CAFII,CAFII AUC,RBE : 81 days left to submit and certify performance data for Q4 2023.

① ACAMII : 90 days left to submit and certify performance data for Q4 2023.

Certify samples by speed and latency below. You will not be able to update data once it has been certified.

Select Testing Quarter

① There are no samples to certify for the filter values selected.

Certify Performance Test Data

Data Status: Fund: State: Test Type:

[Clear All](#) [Filter](#)

<input type="checkbox"/>	Cycle	Fund	SAC	State	Speed Tier	Test Type	Sample Size % ⓘ	# of Test(s) Completed ⓘ	# of Test(s) Required ⓘ	Submitted Test % ⓘ
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Certify ←


Select file and click Certify to complete filing process

Performance Measures Module

Performance Measures Module

[Upload Subscribers](#) [Subscriber Detail](#) [Randomizer](#) [Performance Data](#)

[Upload Data](#) [Review Data](#) [Certify Data](#) [Compliance Report](#)

 Compliance Report Screen

Compliance Report

View your quarterly or annual compliance report using the tabs to navigate between the desired reports. Based on your annual report, if your compliance level reflects "Full Compliance", performance data is due annually. However, it is recommended that performance data be submitted quarterly for fully compliant samples. Whereas, performance data for incomplete performance data submissions and for Levels 1-4 is due quarterly until a sample is fully compliant. See compliance levels and support reduction for Performance Measures Order for more information.

For CAFII AUC Carriers with High Latency, the [MOS Data and Results](#) are available for download and export. See the [MOS test methodology](#) on USAC's website for more information.

[Quarterly](#) [Annual](#)

Quarter and Year:


Fund:

Test Type:

[Clear All](#) [Filter](#)

Compliance Results



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

[Download Report](#)

Displaying 1-10 of 819 records

Fund	SAC	State	Speed Tier	Test Type	Sample Size Met	# of Tests Compliant	# of Tests Non-Compliant	# of Missed tests	Compliance %	Compliance Level	History
ACAM		AK	2	UL Speed	Passed	1207	1	0	100 %	Fully Compliant	-
ACAM		AK	4	UL Speed	Passed	1898	1	0	100 %	Fully Compliant	-
ACAM		AK	3	UL Speed	Passed	1915	1	0	100 %	Fully Compliant	-
ACAM		AK	4	DL Speed	Passed	1851	48	0	100 %	Fully Compliant	-
ACAM		AK	2	DL Speed	Passed	1187	30	0	100 %	Fully Compliant	-
ACAM		AK	3	DL Speed	Passed	1868	27	0	100 %	Fully Compliant	-
ACAM		AK	2	Low Latency	Passed	40065	626	0	100 %	Fully Compliant	-
ACAM		AK	3	Low Latency	Passed	65341	120	0	100 %	Fully Compliant	-
ACAM		AK	4	Low Latency	Passed	66061	35	0	100 %	Fully Compliant	-
ACAM		AL	4	UL Speed	Passed	1049	0	0	100 %	Fully Compliant	-

Show records/page

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Network Performance Testing: Measuring Speed and Latency

For more information about performance measures testing,
please visit the performance measures resources webpage:

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

Resources include:

Performance Measures testing schedule (by fund)

[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

An [explanation](#) of PMM compliance calculations

Questions?