A man with short, light-colored hair is standing in a field of solar panels. He is facing away from the camera, looking towards the horizon. He is wearing a dark, short-sleeved shirt and dark pants. He is holding a tablet in his hands, looking at the screen. The field of solar panels stretches across the background under a cloudy sky.

Connect America Fund: Performance Measures Testing and New Sample Generation

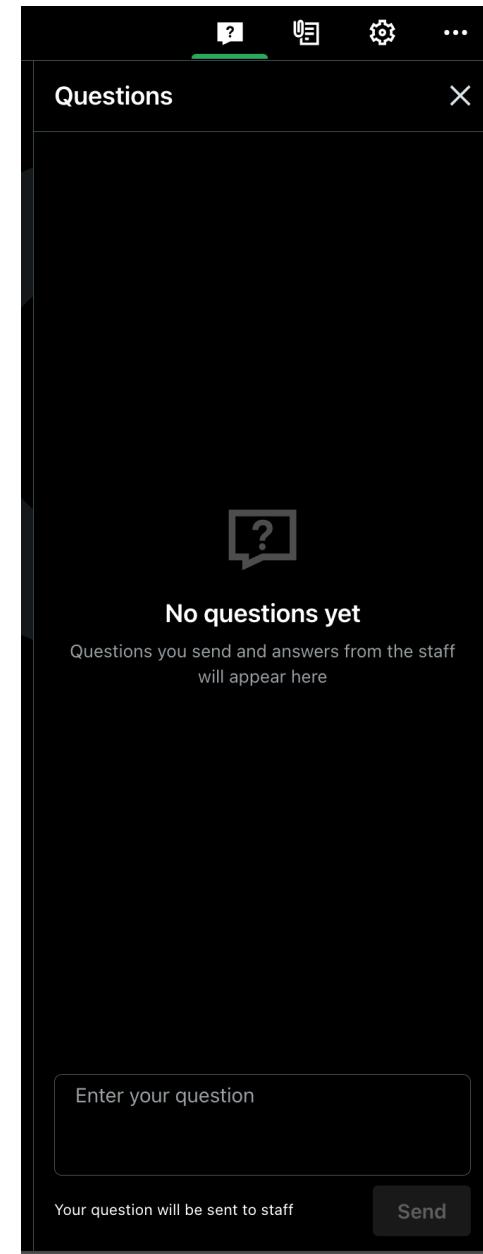
Jan 8, 2026



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Today's Speakers

- John Putman
 - Senior Program Analyst| High Cost
- Ajay Ramesh
 - PMM Product Owner | IT

A man with short, light-colored hair is standing in a field of solar panels. He is wearing a dark, short-sleeved shirt and is looking up at a bright, cloudy sky. He is holding a dark-colored tablet in his hands, which are positioned in front of him. The solar panels are arranged in rows in the background, stretching across the horizon. The overall scene has a blue-tinted, slightly overexposed look.

Connect America Fund: Performance Measures Testing and New Sample Generation



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High Cost and the Connect America Fund (CAF)

- The **High Cost** program ensures universal availability of essential and affordable telecommunications services in rural America. A centerpiece of the program is the **Connect America Fund**.
 - Subsidizes broadband to help close the digital divide in rural America
 - Consists of roughly a dozen modernized funds that give carriers fixed monthly payments to deploy and maintain robust communications networks – which provide voice service and broadband at required speeds – in eligible areas over defined timelines
 - Requires carriers with fixed broadband deployment obligations to connect a specific number of locations by interim and final milestone deadlines
 - Provides support to traditional rural phone companies, rural electric cooperatives, cable operators, wireless operators, wireless Internet service providers, satellite providers
 - Subjects carriers to extensive 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

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

Compliance framework safeguards Connect America Fund accountability, transparency and integrity.

A man with short, light-colored hair, wearing a dark t-shirt, stands in a field of solar panels. He is facing away from the camera, looking towards a large array of solar panels in the distance under a cloudy sky. He is holding a tablet in his hands, which is likely being used to track broadband deployment. The scene is bathed in a blue tint.

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 data annually with the HUBB showing where they deployed service using CAF support in prior calendar year or certify “no locations” to upload (no deployment)
 - Includes annual certification to confirm that carrier’s filing activity for previous year is complete
 - Annual HUBB filing deadline is March 1 (March 2 in 2026)
- For every location deployed with CAF support, HUBB collects:
 - Date of deployment and speeds available
 - Address and lat/long coordinates or Location IDs from the Broadband Serviceable Location Fabric
 - Fabric is a single, standardized dataset of all locations in the U.S. where fixed broadband access is available or could be installed
 - Carriers in newer CAF programs report deployment data using Location IDs from the Fabric that identify the locations where they must offer service

HUBB Portal: Tracking Broadband Deployment

- HUBB performs automated, real-time data validation checks and only accepts locations that pass these checks:
 - Checks that lat/long of reported location fall within area eligible for funding or that Fabric Location ID is on list of locations where a carrier must deploy service
 - 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.
- Carriers with annual deployment milestones may face verification reviews tied to those milestones to confirm deployment to a random sample of reported locations in the months following HUBB deadline
 - Carrier must notify FCC, USAC and relevant state and Tribal governments within 10 business days if it fails to meet a deployment milestone.
 - Carriers found to have missed deployment milestones face increased reporting obligations and potential withholding/recovery of support

HUBB Portal: Filing Obligations by Fund

- Carriers in these funds (and ACS) have until **March 2, 2026**, to file data for locations deployed in 2025 or certify “no locations to upload,” and report deployment data using **addresses and lat/long coordinates**:
 - Connect America Fund (CAF) Phase II Auction (CAF II Auction)
 - Alternative Connect America Cost Model (Original ACAM), Revised ACAM and ACAM II
 - Connect America Fund Broadband Loop Support (CAF BLS)
 - Rural Broadband Experiments (RBE)
 - Alaska Plan

HUBB Portal: Filing Obligations by Fund (Cont.)

- Carriers in these funds have until **March 2, 2026**, to file data for locations deployed in 2025 or certify “no locations to upload” and report deployment data using **Fabric Location IDs**:
 - Rural Digital Opportunity Fund (RDOF)
 - RDOF carriers also have until March 2, 2026, to submit deployment data using Fabric Location IDs for locations already reported in the HUBB using latitude and longitude coordinates and addresses
 - Bringing Puerto Rico Together (Uniendo a Puerto Rico) Fund and Connect USVI Fund (PR/USVI Funds) Stage 2 Fixed Support
 - PR/USVI carriers also have until March 2, 2026, to submit deployment data using Fabric Location IDs for locations already reported in the HUBB using latitude and longitude coordinates and addresses
 - Enhanced ACAM
 - Second year reporting deployment data in HUBB using Fabric locations IDs

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 and FCC [guidance](#) on Location Reporting

[HUBB user guide](#)

[Non-Fabric data formatting Instructions](#) and templates for

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

[Fabric data formatting instructions](#) and templates for

[Fabric bulk deletions](#), [Fabric bulk modifications](#) and [Fabric location uploads](#)



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, RDOF and PR/USVI carriers have mandatory 2025 deployment milestones and may face reviews in 2026
 - 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
 - Reviews conducted as part of the FCC Rural Broadband Accountability Plan (RBAP)
 - Can occur before required 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:

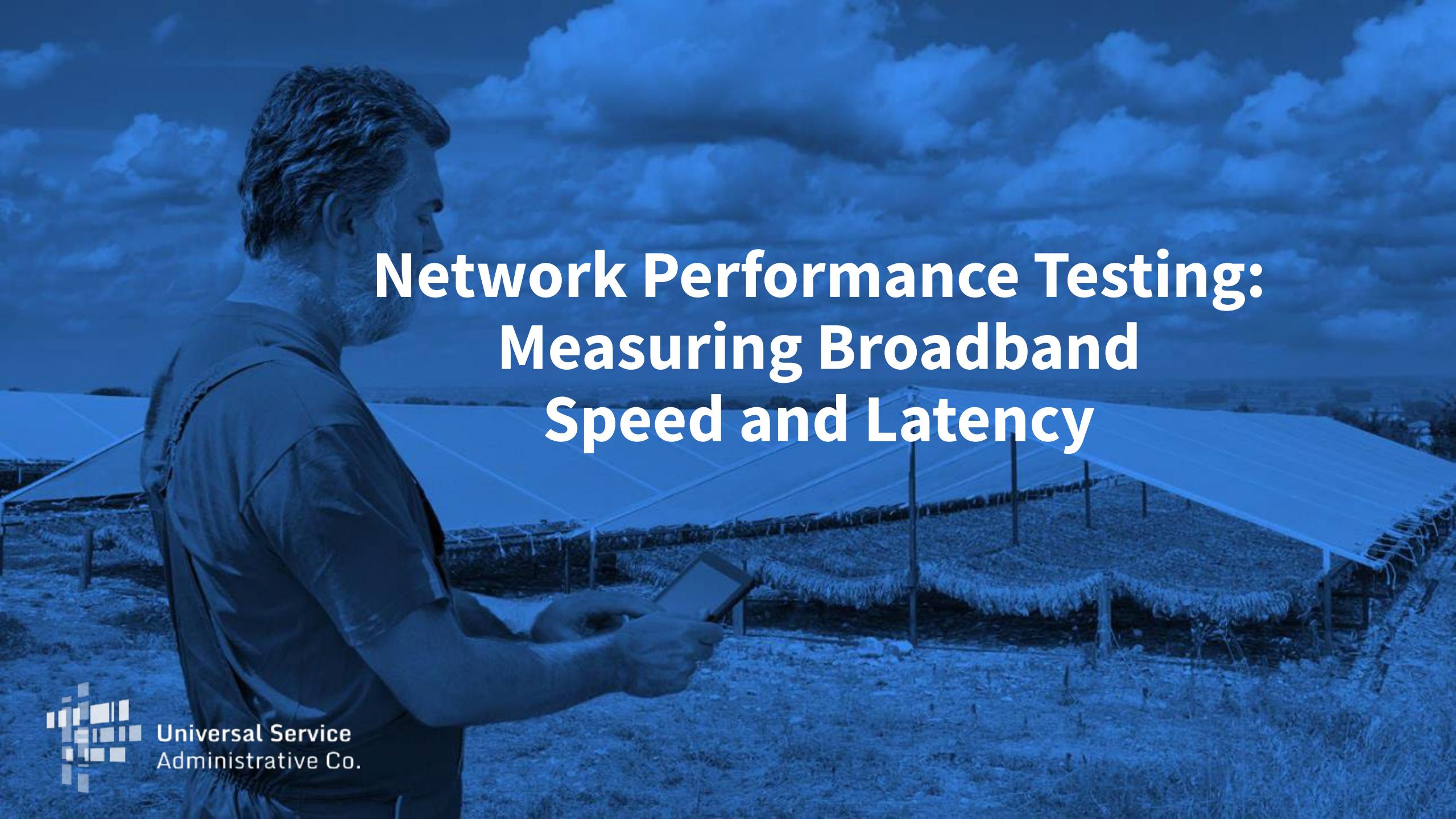
<https://www.usac.org/high-cost/resources/fund-verification-reviews/>

Resources include:

Verification review schedule (by fund)

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

(Disclaimer: FCC use of verification findings and determinations is without prejudice to any other FCC verification or investigation, including any audit of fixed-broadband-availability data submitted by carriers through the [Broadband Data Collection](#) (BDC). USAC and the FCC may use findings from verifications or audits of BDC data submissions to further assess carrier compliance with CAF deployment obligations.)



Network Performance Testing: Measuring Broadband Speed and Latency



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Network Performance Testing: Measuring Speed and Latency

- Ensures that CAF-supported broadband service meets basic performance standards
- Carriers must conduct one week of speed and latency testing at USAC-selected random sample of CAF-supported subscriber locations in each quarter of the year
 - Carriers must submit and certify all test results for all obligated speed tiers for the full sample of selected locations within two weeks of the end of each quarter
 - Quarterly filing requirement new in 2025. Carriers no longer have until following July 1 to submit results for testing conducted during previous calendar year.
- 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
 - Carriers that fail to conduct the required testing, or fail to submit and certify all required test data by quarterly deadline, may face permanent loss of support

Network Performance Testing: Measuring Speed and Latency

- Before official testing begins, carriers must conduct a year of quarterly “pre-testing”
 - Carriers must conduct one week of speed and latency pre-testing at USAC-selected random sample of CAF-supported subscriber locations in each quarter of the year
 - Carriers must submit and certify all pre-testing results for all obligated speed tiers for the full sample of selected locations within two weeks of the end of each quarter (up from one week under previous rules)
 - Carriers do not face withholding of support for failing to meet speed and latency metric during pre-testing if they certify required test results on time each quarter.
- USAC encourages all carriers to submit and certify results as soon as pre-testing/testing is complete each quarter and provides quarterly compliance reports to help carriers track their progress in meeting FCC metrics, address shortfalls and submit missing data
 - Compliance reports include details at the SAC level about the percent of upload and download speed tests and latency tests conducted in the quarter that met FCC performance standards

Network Performance Testing: Performance Measures Module

Performance Measures Module (PMM) system:

- Lets carriers identify which locations deployed with CAF support and reported in the HUBB have active subscribers
 - The PMM allows carriers to attest and certify that they have no active subscribers to test for a particular SAC and speed tier combination
- Generates a random sample of those locations for speed and latency testing and provides obligated speed tiers to be tested (based on speed tiers reported for those locations in the HUBB compared with the speeds that carriers are required to deliver)
 - **Carriers must obtain a new random sample after two years of pre-testing/testing**
- Collects the speed and latency test results from carriers
- Calculates compliance with FCC standards based on certified test results
 - PMM allows carriers to download compliance reports that provide SAC-level details about the percent of speed and latency tests that met FCC standards
 - See [PMM Compliance Calculations](#) for explanation of how compliance is calculated

Network Performance Testing: Testing Obligations by Fund

- Carriers in these funds began quarterly pre-testing in 2021 and quarterly official testing in 2022, and were required obtain new random samples for ongoing testing that started in the first quarter of 2025 (PMM cycle year 2025_2026):
 - **Alternative Connect America Cost Model (ACAM) and Revised ACAM**
 - **Rural Broadband Experiments (RBE)**
 - **Alaska Plan**
- Carriers in these funds began quarterly pre-testing in 2022 and quarterly official testing of 2023, and must obtain new random sample for ongoing testing that starts in the first quarter of 2026 (PMM cycle year 2026_2027):
 - **Alternative Connect America Cost Model II (ACAM II)**
 - **Connect America Fund-Broadband Loop Support (CAF BLS)**
 - **Connect America Fund (CAF) Phase II Auction**

Network Performance Testing: Testing Obligations by Fund (Cont.)

- Carriers receiving **Bringing Puerto Rico Together (Uniendo a Puerto Rico) Fund and Connect U.S. Virgin Islands Fund (PR/USVI Funds)** Stage 2 fixed support began quarterly pre-testing in 2024 and quarterly official testing in 2025 (PMM cycle year 2024_2025), and will resume official testing in the second half of 2026
- Carriers participating in the **Rural Digital Opportunity Fund (RDOF)** began quarterly pre-testing in 2025 and start quarterly official testing in the second half of 2026
- Because of the transition to Fabric Location ID reporting in the HUBB for PR/USVI Funds and RDOF, FCC has waived network testing requirements in first two quarters of 2026 to avoid errors that could result from the upload of test data using an existing sample of locations reported in the HUBB with lat/long coordinates and addresses.
 - PR/USVI Funds and RDOF carriers must obtain new random samples of subscriber locations reported in the HUBB using Fabric Location IDs for testing starting in the third quarter of 2026
 - USAC will calculate 2026 annual compliance with FCC speed and latency metrics using only two quarters of data for the year for carriers in these funds

Network Performance Testing: Testing Obligations by Fund (Cont.)

- Carriers participating in the **Enhanced Alternative Connect America Cost Model (Enhanced ACAM)** program begin quarterly pre-testing in 2026 and quarterly official testing 2027
- Enhanced ACAM carriers must obtain their first random samples of subscriber locations to begin quarterly pre-testing in the first quarter of 2026 (PMM cycle year 2026_2027)
- USAC strongly encourages Enhanced ACAM carriers to begin this process **as soon as possible** – starting by updating their broadband deployment data in the HUBB to be as complete and accurate as possible – so that they have enough time to complete a week of pre-testing with their samples by the end of the first quarter on March 31, 2026

Network Performance Testing: Obtaining Random Samples

To generate random subscriber location samples for testing, carriers must:

- Download their certified HUBB locations into a comma separated value (CSV) file by clicking on the “Generate HUBB Data” button in the PMM
 - Carriers that don’t have locations in HUBB yet must start testing within one quarter after they do
 - CSV file for Enhanced ACAM carriers will include Fabric Location IDs that identify the locations where a carrier reports offering service (instead of lat/long coordinates and addresses)
 - File may include both required locations (Fabric locations where the carrier must offer service) and supported locations (locations that a carrier received support to deploy to in the past and must continue to serve) for Enhanced ACAM carriers that do not have enough required locations to generate sample
 - USAC will load final lists of Enhanced ACAM eligible locations, as of December 30, 2025, into the HUBB in early 2026. **But don’t wait!**

Network Performance Testing: Obtaining Random Samples (Cont.)

To generate random subscriber location samples for testing, carriers must:

- Determine which HUBB locations have active subscribers and 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
 - Do not use any personally identifiable information (such as a customer phone number or social security number) in a subscriber ID
 - PMM lets carriers attest each quarter that they have no active subscribers to test for a particular SAC/speed tier combination
 - Carriers must provide an explanation and may be subject to verification review that subscribers are not available.
- Upload the CSV template with subscriber location information to PMM

Network Performance Testing: Obtaining Random Samples (Cont.)

To generate random subscriber location samples for testing, carriers must:

- Once all subscriber location data has been uploaded and certified, select “Submit to Randomizer” in PMM to generate a random sample of subscriber locations for testing and the obligated speed tiers to be tested
 - In the PMM, this appears as cycle year 2026_2027
 - Sample sizes are determined by number of subscriber locations submitted to the PMM, up to 50 locations
 - New sample may contain some of same locations in carrier’s existing sample
 - Carriers can only request a random sample one time and cannot alter uploaded subscriber location data or request a new sample once a sample is generated
 - Obligated speed tiers for some locations may not be the same as the speed tiers reported in the HUBB for those locations
- Download the sample with the locations and obligated speed tiers to be tested

Network Performance Testing: Updating HUBB Data

- 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 should make any necessary edits to speed tiers to reflect network upgrades for locations already filed in the HUBB, and any new locations not yet submitted to reflect new deployment.
 - While carriers have until March 2, 2026, to submit broadband locations built out in 2025 to the HUBB, USAC encourages carriers to file their 2025 deployments as soon as possible so that those locations can potentially be included in their new random samples for performance measures testing.
- Carriers cannot delete HUBB records, or edit or modify the number of units for HUBB records, for subscriber locations randomly selected for speed and latency testing during the two years when those locations are part of the testing sample

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 subscriber locations submitted to PMM
- Conduct testing at all selected locations
- 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 equipment (modem, router) at no extra cost

Network Performance Testing: Measuring Speed and Latency (Cont.)

Carriers must:

- Test from customer premises to a remote test server located at, or reached by passing through, FCC-designated Internet Exchange Point (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: Filing Test Results

- Carriers must submit and certify all test results for the full sample of selected subscriber locations for each state and speed tier combination within two weeks of the end of each quarter during both pre-testing and official testing
 - Deadlines are April 15 (first quarter results), July 15 (second quarter results), Oct. 15 (third quarter results), Jan. 15 (fourth quarter results)
 - **Carriers have until Jan. 15, 2026, to submit and certify results from testing conducted in the fourth quarter of 2025**
- USAC encourages carriers to submit results as soon as testing is complete each quarter
- Carriers upload results in the PMM using one [CSV file for speed test results](#) and one [CSV file for latency test results](#).
- Carriers that attempt to certify test data after a quarterly filing deadline must provide the PMM with a “late certification explanation” to submit their results, and will see withholding of support until they come into compliance during pre-testing and a reduction in support (support that will not be restored) during official testing.
 - USAC will assess support reduction at the end of the fourth quarter of the year

Network Performance Testing: Missing Test Results

- Carriers that did not conduct all required testing during a quarter because they could not find five active subscribers to test for a particular SAC and speed tier combination must attest to this (and provide an explanation) in the PMM
 - Carriers may be subject to verification review that subscribers were not available.
- Carriers that did not conduct required network testing during a quarter for any reason, including lack of active subscribers to test, and therefore do not have test data to submit and certify, must notify the FCC and USAC within two weeks of the end of the quarter by emailing ConnectAmerica@fcc.gov and hccerts@usac.org.
 - During pre-testing, these carriers will face withholding of support until they come into compliance
 - During official testing, these carriers may face a reduction in support that will not be restored

Network Performance Testing: Tracking Compliance

- USAC provides quarterly compliance reports to help carriers track their progress in meeting FCC metrics, address shortfalls and submit missing data
 - Compliance reports include details at the SAC level about the percent of speed and latency tests conducted in the quarter that met FCC standards
 - FCC requires at least 80 percent of network speed measurements to be at 80 percent of required speeds and 95 percent of latency measurements to be at or below 100 milliseconds round-trip time
- Carriers do not face withholding of support for failing to meet FCC metrics during pre-testing if they submit and certify required test results on time each quarter
- During official testing, USAC will not withhold support from carriers that fail to meet FCC metrics for one or more quarters before evaluating certified data for the full year. USAC will only calculate final annual compliance – and withhold support from carriers that fail to meet FCC metrics– after carriers certify test data for all four quarters
 - Any carrier found out of compliance based on annual testing results will have support restored once it achieves a full quarter of compliance with FCC metrics

Network Performance Testing: Tracking Compliance (Cont.)

- Quarterly compliance reports for the first, second and third quarters of 2025 are available in the PMM for carriers that were in pre-testing and official testing last year
 - Carriers should check these compliance reports ASAP to confirm that they submitted and certified all required test data for each of the first three quarters of the year and find out if their test results met FCC metrics
 - Carriers that have not yet submitted all mandatory test data – that is all test data for each obligated speed tier for the full sample of selected subscriber locations for each of the three quarters – should submit and certify missing data as soon as possible to reduce the impact on future support payments
 - Carriers that are at risk of being out of compliance because their speed and latency test results did not meet FCC standards can potentially get back into compliance by submitting passing quarterly results going forward

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

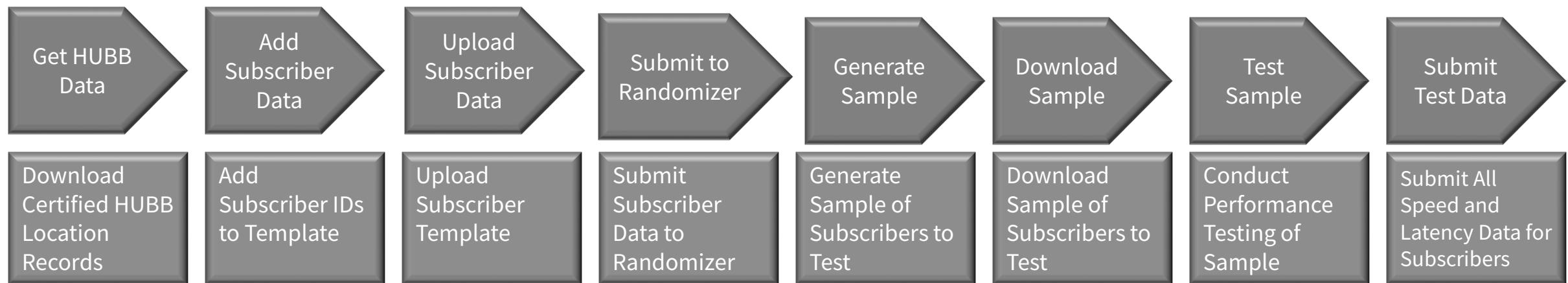
[Charts](#) showing acceptable test paths and remote server locations

List of [vendors](#) that are helping carriers with speed and latency testing

Quick tips [guide](#) to the PMM

An [explanation](#) of PMM compliance calculations

Network Performance Testing: PMM Process Flow



Remember
To Certify Your
PMM Data

Performance Measures Module



Performance Measures Module

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

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 Cycle

Select Fund

Select Fund

[Generate HUBB Data](#)

Select the proper Cycle

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 – Non-Fabric Carriers



	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 Lo	HUBB Loca	Subscriber ID(s)	
2	CY2021_22	AK PLAN		61.46269	-149.356	1472 MAIN AK		12	62070	555	65149866		
3	CY2021_22	AK PLAN		61.45808	-149.37	1472 MAIN AK		12	62070	555	65149867		
4	CY2021_22	AK PLAN		61.4537	-149.378	1472 MAIN AK		12	62070	555	65149868		
5	CY2021_22	AK PLAN		61.46065	-149.357	1472 MAIN AK		12	62070	555	65149869		
6	CY2021_22	AK PLAN		61.45813	-149.352	1472 MAIN AK		12	62070	555	65149870		
7	CY2021_22	AK PLAN		61.45808	-149.356	1472 MAIN AK		12	62070	555	65149871		
8	CY2021_22	AK PLAN		61.45395	-149.351	1472 MAIN AK		12	62070	555	65149872		
9	CY2021_22	AK PLAN		61.41771	-149.179	1472 MAIN AK		12	62070	555	65149873		
10	CY2021_22	AK PLAN		61.44517	-149.368	1472 MAIN AK		12	62070	555	65149874		
11	CY2021_22	AK PLAN		61.44282	-149.367	1472 MAIN AK		12	62070	555	65149875		

Subscriber Data Upload Template File – Fabric Carriers



	A	B	C	D	E	F	G	H	I	J
1	Cycle	Fund	SAC	Fabric ID	State	Speed Tier	# of Units	Carrier Location ID	HUBB Location ID	Subscriber ID(s)
2	CY2024_25	EACAM			ME	7	1		118436498	
3	CY2024_25	EACAM			ME	7	1		118436500	
4	CY2024_25	EACAM			ME	7	1		118436501	
5	CY2024_25	EACAM			ME	7	1		118436503	
6	CY2024_25	EACAM			ME	7	1		118436497	
7	CY2024_25	EACAM			ME	7	1		118436495	
8	CY2024_25	EACAM			ME	7	2		118436496	

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.

Cycle

All

Fund

All

SAC

All

[Clear All](#)

[Filter](#)

[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 S 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 records/page

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Performance Measures Module: Sample 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

Performance Measures Module: Review Expected Sample

PMM Expected Sample List

ⓘ **EACAM** : 89 days left to make changes to your randomized samples for Q1 2026.

Filter controls for the PMM Expected Sample List:

Cycle	Fund	State	Status
All	All	All	All

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

Cycle	Fund	SAC	State	Speed Tier	HUBB Location Count ⓘ	Subscriber Count ⓘ	Status ⓘ
CY2024_25	EACAM		ME	7		10	Ready for Download

Network Performance Testing: Managing the Random Sample

- 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

Network Performance Testing: Replacing Subscriber Locations

Steps for replacing subscriber locations selected for testing:

- Carriers that are able to collect data for all subscriber locations selected for testing in quarter:
 - First submit and certify data for the quarter
 - Then request replacement of subscriber location with the next randomly selected one
 - Provide a reason for replacing the subscriber
 - See list of valid replacement reasons (next slide)
- Carriers that are unable to collect data for all subscriber locations selected for testing in quarter:
 - Request replacement of subscriber location with the next randomly selected one
 - Provide a reason for replacing the subscriber
 - See list of valid replacement reasons (next slide)
 - Submit all available data for active subscriber locations
 - Certify data for the quarter as the last step

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: All Fund: All State: All

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	-	 	1
-	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	 	-

Network Performance Testing: Test Status Codes

- Status Code 1 - Successful
 - Successful test submitted to the PMM System are assigned status code 1. A successful test is defined as a single, discrete observation of speed or latency conducted from the customer premises of an active subscriber within the criteria above.
- Status Code 2 – Failed Due to Cross-Talk
 - Deferred test, due to cross-talk, submitted to the PMM System are assigned status code 2. If the consumer load is greater than 64 Kbps downstream for download tests or 32 Kbps upstream for upload tests, the provider may defer the affected test for one minute and reevaluate whether the load exceeds the relevant 64 Kbps or 32 Kbps threshold before retrying the test.
 - This load check and-retry must continue at one-minute intervals until the speed test can be run or the one-hour test window ends. For speed tests, a carrier that begins attempting speed tests within the first fifteen minutes of a testing hour, and repeatedly retries and defers the test at one-minute intervals due to consumer load meeting the adopted cross-talk thresholds may report that no test was successfully completed during the test hour because of cross talk.
- Status Code 3 – Failed (modem off, etc.)
 - Failed test submitted to the PMM System are assigned status code 3. For a failed test, a carrier was unable to conduct a single, discrete observation of speed or latency from an active subscriber within the criteria above.

Network Performance Testing: Calculating Compliance

- The PMM totals all test status records (statuses 1, 2 and 3) to determine if the correct number of test records have been submitted
 - The system gives credit for subscribers replaced during the quarter
 - The system adds missing test records into the compliance calculations as zero records
- PMM uses only test status 1 records to calculate speed and latency compliance
- PMM calculates compliance using only certified data
- Reminders
 - Collect and submit ALL test records to PMM
 - When cross-talk or failed tests are detected, continue testing at one-minute intervals to ensure all data records are collected
- The PMM allows carriers to view and download quarterly compliance reports displaying details at the Study Area Code (SAC) level about the percent of upload and download speed tests and latency tests that met network performance standards set by the FCC
- For a detailed explanation of how the PMM calculates compliance, please see:
<https://www.usac.org/wp-content/uploads/high-cost/documents/Tools/PMM-Compliance-Calculations.pdf>

Performance Measures Module

Performance Measures Module

Upload Subscribers Subscriber Detail Randomizer Performance Data

Upload Data Review Data Certify Data Compliance Report

Upload Performance Data

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: CY2022_23

Select Fund: ACAMII

Select State: MN

Select Sample: Select a Sample

Select File Type: Select File Type

Select Start Date of 7 day data submission period: MM/DD/YYYY

Upload Performance Data

Upload Performance Data Screen

Select options for data file

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 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: Q4 2023

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

1. Fund: ACAM 2. State: AK 3. Sample: CY2023_24_ACAM-613017-AK-2 4. Test Type: Download Speed

Test records with Errors

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

HUBB Location ID	Subscriber ID	# of Test(s) Submitted	# of Incomplete Test(s)	Submission Status
28665456	104431_9997662071	0	42	①
28665390	104918_9997662315	0	42	①
28666163	105072_9997662422	0	42	①
49964812	105460_9997662707	0	42	①
28665391	106083_9997663126	0	42	①
28665446	106933_9997663678	0	42	①
66409392	107298_9997663936	0	42	①
58912144	107399_9997663993	0	42	①
28662334	107620_9997675414	0	42	①
28662273	107797_9997675488	0	42	①

Displaying 1-10 of 31 records

Show 10 records/page < 1 > of 4 pages

Download All Incomplete Test(s)

Review Performance Data Screen

Download file with record errors

Performance Measures Module

Certify Performance Test Data

Certify your speed and latency samples below.

(i) Please note any sample test data below 100% 'Submitted Test %' will affect your Compliance Benchmark(s).

Data Status	Fund	State	SAC	Performance Metrics												
Not Certified	ACAMII	AR		Cycle	Fund	SAC	State	Speed Tier	Test Type	HUBB Location Count <small>(i)</small>	Subscriber Count <small>(i)</small>	Sample Size % <small>(i)</small>	# of Test(s) Completed <small>(i)</small>	# of Test(s) Required <small>(i)</small>	Submitted Test % <small>(i)</small>	
CY2024_25	ACAMII	AR	2	DL Speed	53	11	0%	0	210	0 %						
CY2024_25	ACAMII	AR	2	Low Latency	53	11	0%	0	12600	0 %						
CY2024_25	ACAMII	AR	2	UL Speed	53	11	0%	0	210	0 %						
CY2024_25	ACAMII	AR	4	DL Speed	4458	1562	0%	0	2100	0 %						
CY2024_25	ACAMII	AR	4	Low Latency	4458	1562	0%	0	126000	0 %						
CY2024_25	ACAMII	AR	4	UL Speed	4458	1562	0%	0	2100	0 %						

All samples for the SAC is displayed regardless of quarterly data submission.

Performance Measures Module

Review Sample(s)

If your sample(s) is missing subscriber data for one or more test types, you are required to attest to the missing data by selecting a reason for not uploading subscribers and providing a comment for each sample. Attestations only apply to test types with missing data. Test types with no-missing data (i.e., have submitted data) will not be affected by attestations.

Your changes will only be saved once you click the “Certify” button at the bottom of the page and complete the Certification process by providing your signature.

Sample CY2025_26 - ACAM - - AK - 2

 **No Data Submitted:** Upload Speed, Download Speed, Low Latency

Select the appropriate attestation for the missing data.

- Nothing to report because no active subscribers during the quarter for the speed tier.
- Nothing to report because while the carrier had active subscribers it obtained the sample during the quarter and did not have time to set up testing.
- Nothing to report because while the carrier had subscribers the carrier did not perform network testing.

Comment:

500/500



- When Performance Data is not submitted for the quarter, you will see the following options to choose from as part of the new ‘Attestation Certification’.
- Carriers must choose one of the options and provide a comment.

Performance Measures Module

Review Sample(s)

If your sample(s) is missing subscriber data for one or more test types, you are required to attest to the missing data by selecting a reason for not uploading subscribers and providing a comment for each sample. Attestations only apply to test types with missing data. Test types with no missing data (i.e., have submitted data) will not be affected by attestations.

Your changes will only be saved once you click the “Certify” button at the bottom of the page.

Sample CY2025_26-ACAM-[REDACTED]-TN-2



Submitted Data: Upload Speed, Download Speed, Latency

- When Performance Data is submitted for the quarter, you will be able to view its completion.
- The PMM System will not display Attestation Certification options for samples with performance data Submitted.

Performance Measures Module

Sample CY2025_26-ACAM-  TN-2

 **Submitted Data:** Upload Speed, Download Speed

 **No Data Submitted:** Latency

Select the appropriate attestation for the missing data.

Nothing to report because while the carrier had active subscribers it obtained the sample during the quarter and did not have time to set up testing

Nothing to report because while the carrier had subscribers the carrier did not perform network testing

Comment



Sample CY2025_26-ACAM-  TN-3

 **Submitted Data:** Download Speed

 **No Data Submitted:** Upload Speed, Latency

Select the appropriate attestation for the missing data.

Nothing to report because while the carrier had active subscribers it obtained the sample during the quarter and did not have time to set up testing

Nothing to report because while the carrier had subscribers the carrier did not perform network testing

Comment



Sample CY2025_26-ACAM-  TN-4

 **No Data Submitted:** Upload Speed, Download Speed, Latency

Select the appropriate attestation for the missing data.

Nothing to report because no active subscribers during the quarter for the speed tier

Nothing to report because while the carrier had active subscribers it obtained the sample during the quarter and did not have time to set up testing

Nothing to report because while the carrier had subscribers the carrier did not perform network testing

Comment

SAC with multiple speed tiers.

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: Q3 2023

Fund: All

Test Type: All

Clear All Filter

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

 Download Report

Compliance Results

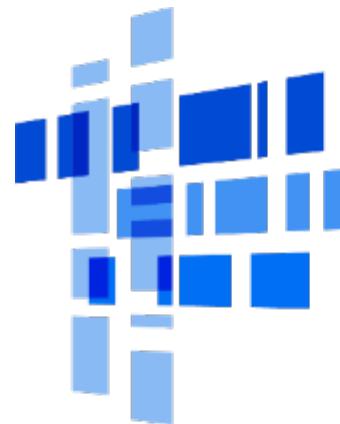
Displaying 1-10 of 819 records

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	[Redacted]	AK	2	UL Speed	Passed	1207	1	0	100 %	Fully Compliant	-
ACAM	[Redacted]	AK	4	UL Speed	Passed	1898	1	0	100 %	Fully Compliant	-
ACAM	[Redacted]	AK	3	UL Speed	Passed	1915	1	0	100 %	Fully Compliant	-
ACAM	[Redacted]	AK	4	DL Speed	Passed	1851	48	0	100 %	Fully Compliant	-
ACAM	[Redacted]	AK	2	DL Speed	Passed	1187	30	0	100 %	Fully Compliant	-
ACAM	[Redacted]	AK	3	DL Speed	Passed	1868	27	0	100 %	Fully Compliant	-
ACAM	[Redacted]	AK	2	Low Latency	Passed	40065	626	0	100 %	Fully Compliant	-
ACAM	[Redacted]	AK	3	Low Latency	Passed	65341	120	0	100 %	Fully Compliant	-
ACAM	[Redacted]	AK	4	Low Latency	Passed	66061	35	0	100 %	Fully Compliant	-
ACAM	[Redacted]	AL	4	UL Speed	Passed	1049	0	0	100 %	Fully Compliant	-

Show 10 records/page

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Questions?



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