

A man with a beard is shown in profile, looking at a tablet device. He is standing in a field of solar panels under a cloudy sky. The entire image has a blue color cast.

Connect America Fund: Performance Measures Testing and New Sample Generation

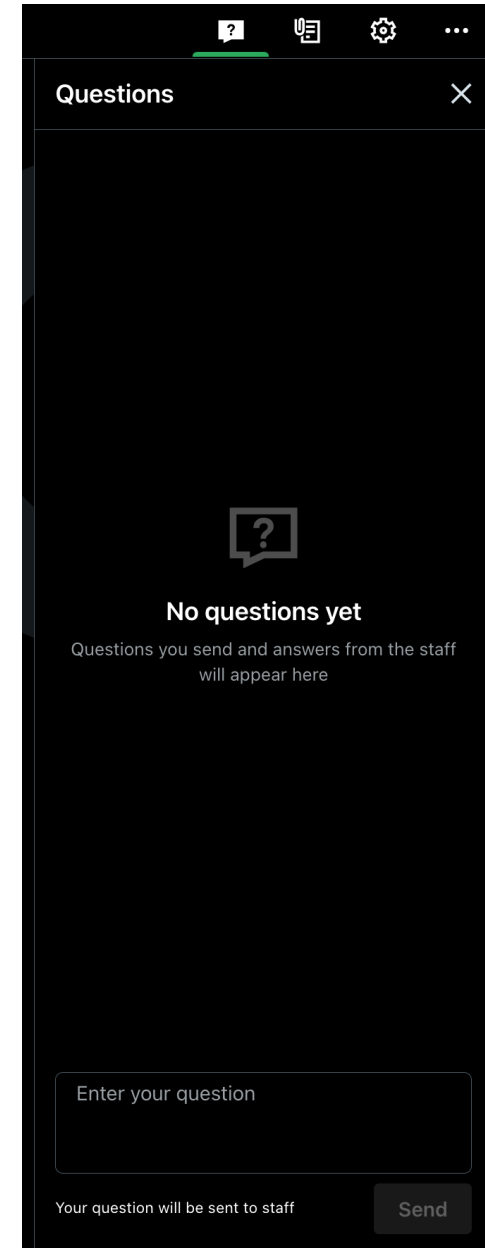
May 14, 2026



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Today's Speakers

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

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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 program accountability, transparency and integrity.

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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 the 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 was March 2, 2026, for carriers to submit 2025 deployment data
- 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:
 - 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
 - A carrier must notify FCC, USAC and relevant state and Tribal governments within 10 business days if it fails to meet a deployment milestone.
 - Carriers that miss deployment milestones are subject to increased reporting obligations and potential withholding/recovery of support

HUBB Portal: Filing Obligations by Fund

- Carriers in these funds (and ACS) had 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

- Carriers in these funds had 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**:
 - **Enhanced ACAM** – reported deployment in HUBB using Fabric location IDs for in 2025 and 2026
 - Final required locations lists for Enhanced ACAM carriers are available [here](#) (see [FCC DA 25-1107](#))
 - **Rural Digital Opportunity Fund (RDOF) and Bringing Puerto Rico Together (Uniendo a Puerto Rico) Fund and Connect USVI Fund (PR/USVI Funds) Stage 2 Fixed Support** – reported deployment in HUBB using Fabric location IDs for first time in 2026
 - RDOF interim required locations lists and PR/USVI Funds final required locations lists available [here](#) (see [FCC DA 25-1081](#))
 - Carriers also had until March 2, 2026, to submit deployment data using Fabric Location IDs for locations already reported in HUBB in the past using addresses and lat/long coordinates
 - RDOF and PR/USVI Funds carriers no longer report deployment data in HUBB by address and lat/long – locations previously reported by address and lat/long are no longer visible in HUBB

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](#)

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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 HUBB filing deadline
 - Original/Revised ACAM, ACAM II, CAF II Auction, RDOF and PR/USVI carriers had 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

- Review confirms carrier deployed broadband service meeting required speeds and network performance standards to required location counts by relevant milestone deadlines in areas eligible for CAF support
- USAC selects statistically valid, random sample of locations certified in the HUBB by carriers chosen for review, and carriers must submit documentation to prove deployment for each HUBB record picked for verification. Examples of acceptable documentation include:
 - Subscriber bills
 - Screen shots from public-facing service availability tool showing speeds available at an address
 - Letters of certification from outside engineer licensed by the state where service was deployed
 - Screen shots from an internal provisioning system showing broadband speeds available at a particular service address (and associated geo-coordinates if available)
 - DSLAM construction project completion acceptance tests and sign-off sheets that release all locations tied to DSLAM to sales for marketing
 - Engineering team emails showing that all locations tied to 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.)

A man with a beard, wearing a dark t-shirt, is shown in profile from the waist up, looking at a tablet device he is holding with both hands. He is standing in a field with rows of solar panels in the background. The sky is filled with 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

- Ensures that CAF-supported broadband service meets basic performance standards
- Carriers must conduct one week of speed and latency testing for all obligated speed tiers at a USAC-selected random sample of CAF-supported subscriber locations in each quarter of the year
- Carriers must submit and certify all test results for full sample of selected locations for each Study Area Code (SAC) and obligated speed tier combination – or attest that they cannot find active subscribers to test for a SAC and speed tier combination – within two weeks of the end of each quarter
- 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 until carrier achieves a full quarter of compliance
 - Carriers that fail to conduct the required testing or fail to submit and certify all required test data - or attest that they cannot find active subscribers to test for a particular SAC and speed tier combination - 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 for all obligated speed tiers at a USAC-selected random sample of CAF-supported subscriber locations in each quarter of the year
 - Carriers must submit and certify all pre-test results for the full sample of selected locations for each SAC and obligated speed tier combination – or attest that they cannot find active subscribers to test for a SAC and speed tier combination – within two weeks of the end of each quarter
 - Carriers do not face withholding of support for failing to meet speed and latency standards during pre-testing if they submit and certify the required test results – or attest to a lack of subscribers – on time each quarter.
- USAC provides quarterly and annual compliance reports to help carriers track their progress in meeting FCC metrics, address shortfalls and submit any missing test data, certifications and/or attestations
 - Compliance reports include details at the SAC level about the percent of upload and download speed tests and latency tests conducted by carrier that met FCC performance standards

Network Performance Testing: Performance Measures Module

Performance Measures Module (PMM) system:

- Lets carriers identify which CAF-supported locations reported in HUBB have active subscribers
 - Carriers can attest to no active subscribers to test for a 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 speeds carriers must deliver)
 - Carriers must obtain a new random sample after two years of pre-testing/testing
- Collects quarterly speed and latency test results and certifications or attestations 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 were required to obtain new random sample for ongoing testing that started 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**
- Carriers in the **Enhanced Alternative Connect America Cost Model (Enhanced ACAM)** program began quarterly pre-testing in 2026 and begin start official testing 2027 (PMM cycle year 2026_2027)

Network Performance Testing: Testing Obligations by Fund

- 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 resume quarterly 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 transition to Fabric Location ID reporting in the HUBB for PR/USVI Funds and RDOF, FCC waived 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 addresses and lat/long coordinates
 - **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: 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 RDOF and PR/USVI Funds carriers will include Fabric Location IDs that identify the locations where a carrier reports offering service (instead of lat/long coordinates and addresses)
- Determine which HUBB locations have active subscribers and add carrier-generated, alpha-numeric subscriber ID to CSV template to serve as unique identifier for each HUBB location with active subscriber
 - Do not use any PII (such as a customer phone number or social security number) in 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 explanation and may face verification that subscribers are not available

Network Performance Testing: Obtaining Random Samples (Cont.)

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

- Upload the CSV template with subscriber location information to PMM
- 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 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 previous 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
- USAC strongly encourages carriers to begin this process **as soon as possible** so that they have enough time to complete a full week of testing with their new samples by the end of the third quarter on Sept. 30, 2026
- 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 must 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
- 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 subscriber locations selected for testing for each state and speed tier combination within two weeks of the end of each quarter during 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)**
- 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](#)

Network Performance Testing: Missing Test Results

- Carriers that did not conduct all required testing during a quarter - and therefore do not have test data to submit and certify – for a particular SAC and speed tier combination must attest to this in the PMM within two weeks of the end of each quarter
 - Carriers that did not conduct all required testing because they do not have locations yet in the HUBB or cannot find active subscribers to test for a particular SAC and speed tier combination may be subject to verification reviews that subscribers are not available
 - Carriers that did not conduct all required testing for any other reason – including carriers that obtained a subscriber location sample but did not have time to set up testing – will see withholding of support during pre-testing and an impact on compliance calculations during official testing
- Carriers should no longer notify the FCC and USAC by email that they did not conduct all required network testing for any reason, including a lack of active subscribers to test
 - USAC and the FCC no longer accept no-subscriber or no-testing certifications by email

Network Performance Testing: Late Filings

- 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
 - During pre-testing, carriers that miss a quarterly filing deadline will see withholding of support until they certify required test results or attest to a lack of subscribers
 - During official testing, carriers that miss a quarterly filing deadline will see a reduction in support (support that will not be restored) that is assessed at the end of the fourth quarter of the year
- Carriers that failed to conduct required testing during a past quarter or quarters for any reason – including because they had no locations reported yet in the HUBB or no subscribers to test – and failed to attest to this in the PMM (or notify the FCC and USAC by email) should complete the certification in the system as soon as possible to minimize the impact on support

Performance Measures Module: New Functionality

- To help carriers navigate the quarterly filing process:
 - New PMM functionality provides a quarterly data status breakdown for carriers to review to ensure they are submitting test data (or attesting to no subscribers or no testing) for all required SAC and speed tier combinations
 - Carriers can then certify all test data and missing data certifications for an entire study area at once
 - New PMM home page dashboard provides a consolidated view of a carrier's status in generating subscriber location samples for testing, uploading test data and certifying test data (or attesting to no subscribers or no testing) for each required SAC and speed tier combination every quarter
 - Dashboard lets carriers filter this information by quarter, fund, SAC and state to track their progress
 - Dashboard helps carriers identify any missing samples, missing test data or missing certifications (or no-subscriber or no-testing certifications)

Network Performance Testing: Tracking Compliance

- USAC provides quarterly and annual compliance reports to help carriers track their progress in meeting FCC metrics, address shortfalls and submit missing data
 - Compliance reports include details at SAC level about percent of speed and latency tests 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
- PMM calculates compliance separately for each SAC, speed tier and fund in which a carrier participates based on certified test results.
 - Results from speed and latency testing are subject to USAC verification and audit
 - See PMM Compliance Calculations [document](#) on the USAC website for a detailed explanation of how the PMM calculates compliance

Network Performance Testing: Tracking Compliance

- During pre-testing, carriers do not face withholding of support for failing to meet FCC metrics if they submit and certify required test results on time each quarter
- During official testing, USAC does 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 calculates final annual compliance – and withholds support from carriers that fail to meet FCC metrics – only 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

- Quarterly and annual compliance reports for 2025 remain available for carriers in the PMM
- Quarterly compliance reports for the first quarter of 2026 will be made available in the PMM any day
 - Carriers should check these compliance reports to confirm that they submitted and certified all required first quarter test data – or completed all required no subscriber or no testing attestations for the quarter – by April 15 deadline, and to find out if their first quarter test results met FCC metrics
 - Carriers that have not yet submitted all mandatory first quarter test data – or attested to no subscribers or no testing for the quarter – for the full sample of subscriber locations selected for testing for each SAC and obligated speed tier combination should submit any missing data or complete missing attestations as soon as possible to reduce impact on future support payments
 - Carriers in official testing 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

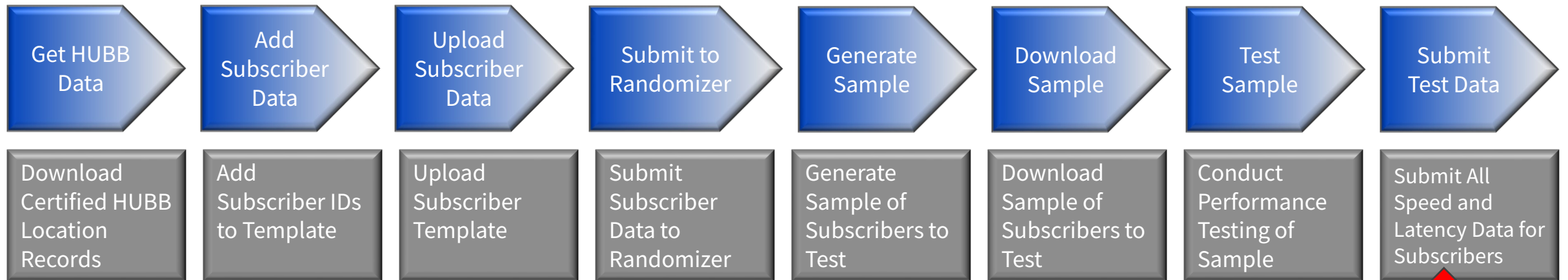
[Charts](#) showing acceptable test paths and remote server locations

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 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

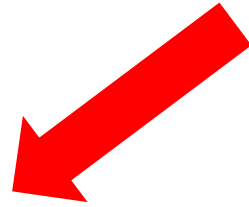
File Name	Uploaded	Progress	Records Uploaded	Records Saved	Data Errors	Download Errors	Delete
Performance Subscriber Data Upload Template _ACAMI_ 462203.csv	10/20/2023 10:19:20AM	☑	28155	28155	0	-	Delete
Performance Subscriber Data CAFII AUC 159051.csv	10/19/2023 10:46:30AM	☑	106916	648	106268	Download	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 Loc	HUBB Loc	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

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:
Fund:
SAC:
[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 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 records/page

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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

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

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:

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	ACAMIII		IA	2	-	-	Pending Generation	-	-	-
-	CY2022_23	ACAMIII		IA	4	08/23/2022 04:53:04 PM	rachel@metcteam.com	Ready for Download	Replace	↓ ⓘ +	-
Generate	CY2024_25	ACAMIII		IA	4	-	-	Pending Generation	-	-	-
-	CY2022_23	ACAMIII		IA	2	12/17/2021 03:33:44 PM	andy.peterson@palmerone.com	Ready for Download	Replace	↓ +	-
Generate	CY2024_25	ACAMIII		IA	2	-	-	Pending Generation	-	-	-
-	CY2022_23	ACAMIII		IA	4	12/17/2021 03:34:34 PM	andy.peterson@palmerone.com	Ready for Download	Replace	↓ +	-
Generate	CY2024_25	ACAMIII		IA	4	-	-	Pending Generation	-	-	-
-	CY2022_23	ACAMIII		IA	4	03/07/2022 04:20:07 PM	julie@sullytel.com	Ready for Download	-	↓	ⓘ
-	CY2022_23	ACAMIII		IA	2	01/20/2023 01:44:39 PM	marky@grm.net	Ready for Download	Replace	↓ ⓘ +	-
Generate	CY2024_25	ACAMIII		IA	2	-	-	Pending Generation	-	-	-
-	CY2022_23	ACAMIII		IA	4	04/03/2023 08:58:03 AM	marky@grm.net	Ready for Download	Replace	↓ ⓘ +	-
Generate	CY2024_25	ACAMIII		IA	4	-	-	Pending Generation	-	-	-
-	CY2022_23	ACAMIII		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

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.

- [Speed TestingTemplate.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	❌
28665390	104918_9997662315	0	42	❌
28666163	105072_9997662422	0	42	❌
49964812	105460_9997662707	0	42	❌
28665391	106083_9997663126	0	42	❌
28665446	106933_9997663678	0	42	❌
66409392	107298_9997663936	0	42	❌
58912144	107399_9997663993	0	42	❌
28662334	107620_9997675414	0	42	❌
28662273	107797_9997675488	0	42	❌



Show records/page

of 4 pages

 Download file with record errors

Performance Measures Module

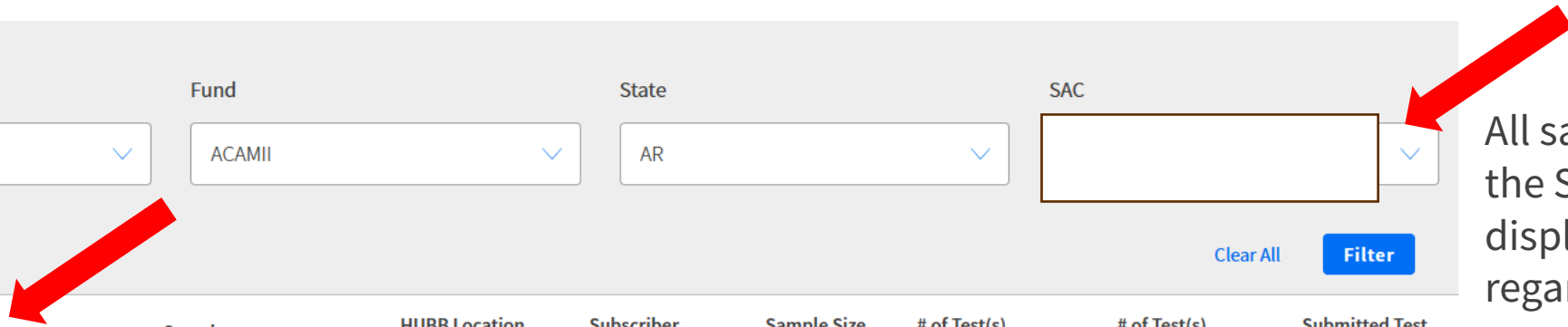
Certify Performance Test Data

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

Cycle	Fund	SAC	State	Speed Tier	Test Type	HUBB Location Count <i>i</i>	Subscriber Count <i>i</i>	Sample Size % <i>i</i>	# of Test(s) Completed <i>i</i>	# of Test(s) Required <i>i</i>	Submitted Test % <i>i</i>
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--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-[redacted] 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-[redacted] 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-[redacted] 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:

Fund:

Test Type:

[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		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 10 records/page

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Performance Measures Module – Dashboard

Quarter/Year:
 Fund:
 SAC:
 State:

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

Cycle	Fund	SAC	State	Speed Tier	Test Type	Sample Status i	Upload Status i	Certification Status i
CY2025_26	ACAM				UL Speed	<input type="radio"/> Not Started	<input checked="" type="radio"/> Incomplete	<input type="radio"/> Not Certified
CY2025_26	ACAM				DL Speed	<input type="radio"/> Not Started	<input checked="" type="radio"/> Incomplete	<input type="radio"/> Not Certified
CY2025_26	ACAM				Latency	<input type="radio"/> Not Started	<input checked="" type="radio"/> Incomplete	<input type="radio"/> Not Certified
CY2025_26	ACAM				UL Speed	<input type="radio"/> Not Started	<input checked="" type="radio"/> Incomplete	<input type="radio"/> Not Certified
CY2025_26	ACAM				DL Speed	<input type="radio"/> Not Started	<input checked="" type="radio"/> Incomplete	<input type="radio"/> Not Certified
CY2025_26	ACAM				Latency	<input type="radio"/> Not Started	<input checked="" type="radio"/> Incomplete	<input type="radio"/> Not Certified
CY2025_26	ACAM				UL Speed	<input type="radio"/> Not Started	<input checked="" type="radio"/> Incomplete	<input type="radio"/> Not Certified
CY2025_26	ACAM				DL Speed	<input type="radio"/> Not Started	<input checked="" type="radio"/> Incomplete	<input type="radio"/> Not Certified
CY2025_26	ACAM				Latency	<input type="radio"/> Not Started	<input checked="" type="radio"/> Incomplete	<input type="radio"/> Not Certified
CY2025_26	ACAM					Latency	<input type="radio"/> Not Started	<input checked="" type="radio"/> Incomplete

Performance Measures Module – Dashboard


Performance Measures Module

Home
Upload Subscribers
Subscriber Detail
Randomizer
Performance Data

Home

On this dashboard, you can view all sample sets associated with your current **SAC** and **Speed Tier** obligations.

Each sample set includes data related to three quarterly actions:

- **Sample Set Generation**
- **Performance Data Submission**
- **Performance Data Certification**

To refine your view, you can filter sample sets by **Quarter/Year**, **Fund**, **SAC** and **State**.

Quarter/Year

Fund

SAC

State

Clear All
Filter

Cycle	Fund	SAC	State	Speed Tier	Test Type	Sample Status <small>?</small>	Upload Status <small>?</small>	Certification Status <small>?</small>
CY2025_26	RDOF				UL Speed	✔ Complete	❗ Incomplete	○ Not Certified
CY2025_26	RDOF				DL Speed	✔ Complete	❗ Incomplete	○ Not Certified
CY2025_26	RDOF				Latency	✔ Complete	❗ Incomplete	○ Not Certified

Performance Measures Module – Dashboard

Quarter/Year:
 Fund:
 SAC:
 State:

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

Cycle	Fund	SAC	State	Speed Tier	Test Type	Sample Status ?	Upload Status ?	Certification Status ?
CY2025_26	ACAM				UL Speed	✔ Complete	✔ Complete	✔ Certified
CY2025_26	ACAM				DL Speed	✔ Complete	✔ Complete	✔ Certified
CY2025_26	ACAM				Latency	✔ Complete	✔ Complete	✔ Certified
CY2025_26	ACAM				UL Speed	✔ Complete	✔ Complete	✔ Certified
CY2025_26	ACAM				DL Speed	✔ Complete	✔ Complete	✔ Certified
CY2025_26	ACAM				Latency	✔ Complete	✔ Complete	✔ Certified
CY2025_26	ACAM				UL Speed	✔ Complete	✔ Complete	✔ Certified
CY2025_26	ACAM				DL Speed	✔ Complete	✔ Complete	✔ Certified
CY2025_26	ACAM				Latency	✔ Complete	✔ Complete	✔ Certified



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Questions?