BROADBAND OFFICE

1401 Main Street
Suite 900
Columbia, SC 29201
(803) 737-0800
ors.sc.gov/broadband

ARPA Post-Construction Speedtest Reporting Guidance
January 31, 2024

Objective

This guidance is intended to provide supplemental context to Grantees as part of American Rescue Plan Act (ARPA), Broadband deployment projects administered by the South Carolina Broadband Office (SCBBO). Instructions provided in these guidelines are for use and dissemination to Grantees under State Local Fiscal Recovery Fund (SLFRF) and Capital Project Fund (CPF) grant programs respectively. This document supersedes initial guidance provided by the SCBBO.

Speed and Latency

To ensure broadband infrastructure investments meet ARPA requirements to deliver service that reliably meets or exceeds symmetrical download and upload speeds of 100 Mbps, the SCBBO will accept reporting of speed and latency measurements using industry-recognized best practices when conducting speed tests to comply with post construction reporting requirements outlined in SCBBO administered ARPA grant programs.

In addition to demonstrating speed requirements are met, network latency measurements during testing windows should fall at or below 100 milliseconds round-trip time. This approach ensures a connection that supports reasonably foreseeable real-time applications. Additional details are provided in the sections that follow. Please email broadband@ors.sc.gov with questions.

Methodology

Testing Topics	Download Speed (Mbps) Upload Speed (Mbps) Latency (ms)
Number of Locations to Be Tested	20% of total subscribers at project closeout which are capable of meeting 100/100 symmetric speeds; minimum 50 locations unless otherwise instructed by SCBBO. Must be geographically dispersed throughout project area and may be selected by ISP.
Testing Period	9:00am to 11:59pm EST
Testing Frequency	Minimum of 5 tests per location on different dates and times. Populate the post construction list with the average of these 5 tests.
Required Results	At least 80% of all speed test results must be at a minimum of 80% of the subscription connection speeds (uplink/downlink); 95% of latency measurements must be at or below 100 milliseconds round-trip time.
Reporting	Use the Post Construction List Template provided by the SCBBO. See table on page 3.
Testing Methods	Range of methods including Consumer Premises Equipment (CPE) and consumer-generated Ookla Speedtest results via a GPS-equipped device (preferred by SCBBO).

Post-Construction Results (following above Methodology for subset of project area)

Project Name*	As defined in the Grant Agreement
Location Name/ID*	As defined in Grant Agreement
Fabric ID*	LocationID from the BSL Fabric
Latitude*	Latitude from the BSL Fabric
Longitude*	Longitude from the BSL Fabric
FCC Provider ID*	The FCC-supplied Provider ID number issued to the implementing ISP
Technology Type at Location	Fiber (FTTH), Hybrid Fiber Coax (HFC), Fixed Wireless, or, Other
If Technology Type "Other"	Other Broadband Technology
Location Type*	Residential or Business
If Residential, Housing Units at Location*	For Residential BSL's from BSL Fabric Only
Speed Pre-Investment*	Speed of each BSL from SCBBO Eligibility Map
Maximum Download Speed Offered at Location Post-Investment	Maximum advertised download speed offered (Mbps) *Example: 100*
Maximum Download Speed Delivered at Location Post-Investment	Average Download Speed Delivered (Mbps) *Example: 125.3*
Maximum Upload Speed Offered at Location Post-Investment	Maximum advertised upload speed offered (Mbps) *Example: 100*
Maximum Upload Speed Delivered at Location Post-Investment	Average Upload Speed Delivered (Mbps) *Example: 120.7*
Latency Delivered at Location Post-Investment	Average Delivered Latency (ms) *Example: 22*

* Will be pre-populated by the SCBBO.