Broadband Equity, Access, and Deployment (BEAD) Program: Fiber-to-the-Premises (FTTP) Service Evidence Submission Template Instructions and Schema

This document is intended to guide BEAD applicants in completing the **Fiber-to-the-Premises (FTTP) Service Evidence Template**. The evidence is required to demonstrate the applicant has taken the steps necessary to ensure compliance with technical requirements for consideration as a Priority Broadband Project as established in the NTIA's BEAD Restructuring Policy Notice (issued June 6, 2025).

FTTP Service Evidence Template Submission Instructions

- 1. Refer to the schema below for detailed instructions on how to complete each tab and its associated fields. All fields are required unless otherwise stated.
- 2. Save your completed FTTP Service Evidence Template with the following file name format: <<CompanyName>>_FTTPEvidence_<<yyyy-mm-dd>>.xlsx.
- 3. For applications proposing to use multiple technology types in the network (e.g., fiber and licensed fixed wireless), please upload a template for each technology type used.

FTTP Service Evidence Template Schema

The Fiber-to-the-Premises (FTTP) Service Evidence Template contains five tabs:

Tab number	Description
1	Logical network diagram
2	Access layer
3	Headend & internet backbone connectivity
4	Reliability & quality of service
5	Performance calculations

Information must be entered for all fields in Tabs 1-5. All supplemental evidence files and documents must be submitted with the completed FTTP Service Evidence template.

Tab 1. Logical Network Diagram Tab

Field	Data type	Example	Description	Constraints
Logical Network	Image	Diagram	Provide a logical diagram	Illustrate a
Diagram			showing backhaul	worst-case
			between the Internet and	scenario for
			central office (CO) /	link capacities,
			headend location(s);	FTTP
			active optical distribution	technology
			network components (i.e.	type (GPON,
			Optical Line Terminals, or	XGS-PON,
			OLTs); passive optical	Active
			components, including	Ethernet, etc.),
			splitters (if applicable);	splitter ratios
			and customer premises	(where
			equipment (CPE),	applicable),
			including the optical	and number of
			network unit (ONU)	subscribers
			and/or customer gateway	served per OLT
			device	port

Tab 2. Access Layer Tab

Field	Data type	Example	Description
Describe the access layer	Narrative		
FTTP technology that will be			
used (e.g., GPON, XGS-PON,			
Active Ethernet). Include the			
reasoning for this selection			
based on the density and			
characteristics of the project			
area.			
Describe the OLT	Narrative		
configuration, including the			
number of PON segments per			
chassis and how the			
segments are distributed			
across the chassis.			
Describe the proposed PON	Narrative		
size, including the maximum			
split ratio, the number of			

Field	Data type	Example	Description
serviceable passings per			
PON, and the anticipated			
number of subscribers per			
OLT port at service			
activation.			

Tab 3. Headend & Internet Backbone Connectivity Tab

Field	Data type	Example	Description
Describe the capacity of all	Narrative		Include expected peak
links between the OLT(s) and			utilization and how the
the Internet, including the			design avoids
uplinks to backbone routers			congestion
and the connections to both			
transit and non-transit peers.			

Tab 4. Reliability & Quality of Service Tab

Field	Data type	Example	Description		
4.1: Performance Thresholds					
How does the applicant	Narrative	Latency:			
monitor and ensure that		≤ 100 ms			
roundtrip latency, real-time					
packet loss, and jitter remain		Packet loss:			
within the following		≤ 2% over			
thresholds during typical and		any 15-			
peak operating conditions?		second			
		interval			
		Jitter: ≤ 30			
		ms over any			
		15-second			
		interval			

Tab 5. Performance Calculations Tab

Field	Data type	Example	Description	
Demonstration of Capacity				
Using worst-case design	Narrative		Calculations should be for	
assumptions, please provide			the proposed design specific	
calculations demonstrating			to the BSLs and all network	

Field	Data type	Example	Description
that the network can provide			components encompassed
to each location at the time			the application.
of activation:			
			Please include the following
(1) A minimum of 100			in your calculations:
Mbps download and			1. Existing network
20 Mbps upload			components upon which
			the application is
(2) ≤ 100 ms roundtrip			dependent
latency			2. A summary of the
			assumptions used for
(3) Simultaneous 5 Mbps			demand modeling
to all connected			3. Oversubscription ratios
locations, including			4. Description of shared
BEAD and non-BEAD			segments and subscriber
users			counts for these shared
			segments
	monstration	of Scalabili	
Please demonstrate, using	Narrative		Please include the following
calculations based on the			in your calculations:
submitted technical			Existing and future
information, how the			network components
proposed network will meet			upon which the
the following performance			application is dependent
targets five years after initial			Oversubscription ratios Number of anticipated
deployment, assuming a 25%			Number of anticipated subscribers that will
annual increase in capacity demand:			
uemanu.			utilize shared capacity along any segment of the
(1) Provide at least 240			network as of the
Mbps download and			activation date
48 Mbps upload			donvation date
capacity to each			Calculations should be for
Broadband			the proposed design specific
Serviceable Location			to the BSLs and all network
(BSL)			components encompassed
, ,			by the application.
(2) Maintain roundtrip			
latency no greater			
than 100 ms under			
projected peak load			
(BEAD and non-BEAD			
users)			

Field	Data type	Example	Description
(3) Simultaneous 12 Mbps to all connected locations, including BEAD and non-BEAD users			
Demonstration o	f Support for	5G and Adv	anced Services
Please demonstrate, using calculations based on the submitted technical information, how the proposed network will support deployment of 5G, successor wireless technologies, and other advanced services. For the purpose of this demonstration, calculations should be based on one of the following two scenarios: (1) Rural capacity backhaul to one provider at each of three locations, or (2) (2) Three separate providers at one location each	Narrative		The calculations must demonstrate that the following performance targets can be met: 1. Deliver at least 300 Mbps download and 30 Mbps upload capacity to each of three distinct locations within the proposed project area (totaling 900/90 Mbps aggregate capacity) 2. Maintain roundtrip latency no greater than 100 ms on each of these links Your response must include: 1. FTTP network capacity allocation 2. Configuration of OLTs and last-mile components 3. Backhaul link capacity, including BEAD and non-BEAD traffic 4. Any assumptions made about concurrent usage