Data Format for Fixed Broadband Deployment

INSTRUCTIONS:

1. The KMZ or Shapefile must be submitted as a compressed data file (*.zip file).

2. Add your *Brand name* to the beginning of the file name, followed by an underscore **"_"**
   EXAMPLE: ***AAA***_*Fixed_Deployment*_2026).

3. Submit to Broadband Data Upload Portal by the deadline.

- When naming your file for submission, please use letters (a-z), numbers (0-9) and underscores only. Please do not use dashes, hyphens, or spaces in the file name, and please do not start your file name with a number.

- If you do not have an FCC Registration Number, we encourage you to register and participate in the FCC's semi-annual Broadband Data Collection. This is separate from CPUC's annual Broadband Data Collection. Submission of your broadband data to the FCC will help to ensure that your Fixed Broadband Deployment is reflected in national broadband maps and may offer additional opportunities to apply for federal grants. More information here: Broadband Data Collection (BDC) FAQs – BDC Help Center

- If you experience difficulty uploading your deployment file and your file contains greater than 500,000 entries, please try submitting your deployment data in multiple, smaller files.

- Please also note that while Fixed Broadband Deployment data may be submitted in KMZ or Shapefile format, Video Deployment data **must** be submitted in .csv format. If you are both a Fixed Broadband provider and Video Franchisee and choose to submit Fixed Broadband Deployment as a KMZ file or Shapefile, the Video Deployment must still be provided as a separate .csv file.

WHAT THE MAP SHOULD SHOW:

Fixed broadband providers should submit polygons in a KMZ or Shapefile format representing the geographic coverage area containing Serviceable Locations and maximum advertised speeds per technology.

The data associated with each polygon should indicate the maximum advertised upstream and downstream data speeds associated with that network technology, and the coverage area polygon should depict the boundaries where users should expect to receive those advertised speeds. If your company advertises different maximum upstream and downstream speeds in different areas of the country using the same technology, then you should submit separate polygons showing the coverage area for each speed. A variation in technology or speed requires the submission of a separate polygon.

STANDARDS:

1. All map areas must be closed, non-overlapping polygons with a single, unique identifier.

2. Any variation in any of the required fields necessitates the creation of a separate polygon showing the relevant coverage. In other words, each polygon must have a single value for each of the following fields: technology, downstream bandwidth, and upstream bandwidth.

3. The KMZ or Shapefile must have an assigned projection with an accompanying .prj file.

4. The KMZ or Shapefile must use unprojected (geographic) WGS84 geographic coordinate system.

5. The shapefile must be submitted as a *.zip file. This can be done with a program like WinZip or, in Windows by selecting the files associated with a shapefile, right-clicking the files, then clicking '***Send to***' then '**Compressed (zipped) folder**'.

6. In addition to the shapefile, each submitted *.zip file must include metadata or a plain text "readme" file that contains a comprehensive explanation of the methodology employed to generate the map layer including any necessary assumptions and an assessment of the accuracy of the finished product.

Please submit your data using the corresponding '*KMZ file, Shapefile and/or CSV file'.*

DATA FIELDS:

Field	Description	Type	Example
Brand Name (brand_name)	Name of the entity or service advertised or offered to consumers.	String	AAA Company
FRN (*FRN*)	Provider FCC Registration Number – search here (*ONLY numbers, no other characters*) (*If provider is not in the FCC Database, leave blank)*	Text	0008402202
Provider ID (*providerid*)	A unique 6-digit code generated by the FCC that identifies each service provider – search here (*If provider is not in the FCC Database, enter six zeroes, i.e., 000000.)*	Text	123456
Business / Residential Category (bizrescode*)*	Enumerated character identifying whether the service at the location is business-only, residential-only, or offered to both business and residential customers. Value entered must be one of the following codes: B – Business-only service R – Residential-only service X – Business and Residential service G – Group Quarters service If distinct residential and business services, each with different maximum advertised download and upload speeds, are offered at the same location, enter those services as separate records, one with R and one with B.	Enumerated String {1}	B
CostQuest Location Data (Optional Submission)			
Location ID **(***locationid***)**	*A unique identifier for the location served. A Location ID will be included for each location in the Broadband Serviceable Location Fabric when the Fabric is made available to filers.*	String	1234567890
Broadband Data			

Technology (technology)	Category of technology for the provision of Internet access service used by the portion of the connection that would terminate at the end-user location (premises). Acceptable codes for this section are: 10 = Asymmetric xDSL 11 = ADSL2, ADSL2+ 12 = VDSL 20 = Symmetric xDSL 30 = Other Copper Wireline (all copper-wire based technologies other than xDSL; Ethernet over copper and T-1 are examples) 40 = Cable Modem other than DOCSIS 1, 1.1, 2.0, 3.0, 3.1 or 4.0 41 = Cable Modem – DOCSIS 1, 1.1 or 2.0 42 = Cable Modem – DOCSIS 3.0 43 = Cable Modem – DOCSIS 3.1 44 = Cable Modem – DOCSIS 4.0 50 = Optical Carrier / Fiber to the end user (Fiber to the home or business end user, does not include "fiber to the curb") 60 = Satellite 70 = Unlicensed Terrestrial Fixed Wireless 71 = Licensed Terrestrial Fixed Wireless 72 = Licensed-by-Rule Terrestrial Fixed Wireless 90 = Electric Power Line 0 = All Other	Integer	41
Maximum Advertised Download Speed (maxAdDn)	For mass market / consumer broadband services, the maximum advertised downstream bandwidth available in this shapefile/KMZ in Mbps. If the field "Consumer" equals 1, there should be a non-zero value in this field. If the service offered has a maximum advertised download speed that is greater than or equal to 25 Mbps and a maximum advertised upload speed that is greater than or equal to 3 Mbps, enter the value of the advertised download speed in Mbps. If the service offered has a maximum advertised download speed of less than 25 Mbps or an upload speed that is less than 3 Mbps, report using one of the following service tiers: • If the maximum download speed is greater than 200 kbps but less than 10 Mbps and the upload speed is less than 1 Mbps: enter 0. • If the maximum download speed is greater than or equal to 10 Mbps but less than 25 Mbps and the upload speed is greater than or equal to 1 Mbps but less than 3 Mbps: enter 10.	Integer	800
Maximum Advertised Upload Speed (maxAdUp)	For mass market / consumer broadband services, the maximum advertised upstream bandwidth that is offered with the above maximum advertised downstream bandwidth available in this shapefile/KMZ in Mbps. If the field "Consumer" equals 1, there should be a non-zero value in this field. If the service offered has a maximum advertised download speed that is greater than or equal to 25 Mbps and a maximum advertised upload speed that is greater than or equal to 3 Mbps, enter the value of the advertised upload speed in Mbps.	Integer	20

	If the service offered has a maximum advertised upload speed of less than 3 Mbps or a maximum advertised download speed that is less than 25 Mbps, report using one of the following service tiers: • If the maximum upload speed is less than 1 Mbps and the download speed is greater than 200 kbps but less than 10 Mbps: enter 0. • If the maximum upload speed is greater than or equal to 1 Mbps but less than 3 Mbps and the download speed is greater than or equal to 10 Mbps but less than 25 Mbps: enter 1.		
Low Latency Indicator (Optional Submission)			
Low latency (*low_latency*)	The offered service is low latency, defined as having round-trip latency of less than or equal to 100 milliseconds based on the 95th percentile of measurements. *Value must be one of the following codes:* *0 – False* *1 - True*	Boolean Integer	1