



Broadband Funding Map

Specifications for Submission of Program, Project, and Buildout Data

March 12, 2026

Table of Contents

1	Overview	4
2	Data Submitted by Agencies in the Broadband Funding Map Filer Interface	4
2.1	Program Data	4
2.2	Project Data	7
2.2.1	Projects Defined by Area	8
2.2.1.1	Area-Based Project Attributes	8
2.2.1.2	Area-Based Project GIS Data Attributes	11
2.2.1.3	Area-Based Project GIS Data Standards	14
2.2.2	Projects Defined by a List of Locations	14
2.2.2.1	Location-Based Project Attributes	14
2.2.2.2	Location-Based Project Location List	18
2.3	Buildout Data	23
2.3.1	Area Buildout File	23
2.3.2	Location Buildout File	28

Change Log

Revision	Date	Comments
7	06/28/2023	- Added proj_gid field within Area Data GIS file - Updated system to allow for technology arrays within Project Data - Added technology, maxdown and maxup fields to Location Buildout and Middle Mile Buildout files
8	09/01/2023	- Updated funding_type value within Program Data to allow for a value of "O" (Other) - Added other_desc value within Program Data, which is required when funding_type = "O" - Added building_type_code value within Project/Location List data
9	10/18/2023	- Added building_type_code value within Area Buildout data
10	01/24/2024	- Modified description for Provider ID field to include link for published IDs
11	03/12/2024	- Values for provider_id may now be null for Area Data and Location List Project data - Relaxed the validation for location_id so that IDs from previous Fabric versions are accepted by the system - location_id values with bsl_flag = "false" are now accepted by the system
12	02/12/2025	- Updated descriptions for Brand Name values to clarify logic for display on Location Summary page of Broadband Funding Map
13	03/11/2025	- Updated specifications to prevent null provider_id values - Updated Brand Name validation to ensure values are three characters or greater
14	11/22/2025	- Transposed entire document into standard FCC template; improved wording throughout.
15	3/12/2026	- Updated field names throughout tabular / non-GIS data files to clarify the purpose of each field (e.g., "fund_ob" to "funding_obligated"; "loc_sup" to "locations_supported"); - Renamed "funding_ob" and "funding_def" fields to to "funding_committed" and "funding_revised" in Program Attributes data; - Added "funding_disbursed" field to Project Attributes data; - Removed "build_req", "loc_plan", and "loc_sup" fields from Project Area GIS data; - Removed specifications for Middle Mile data.

1 Overview

This document outlines the data files that are uploaded or submitted into the Broadband Funding Map Filer Interface at <https://bfm.fcc.gov/>. This document details the formatting and field-specific information required for each data file.

2 Data Submitted by Agencies in the Broadband Funding Map Filer Interface

2.1 Program Data

Program Data contain both general and broadband-related information associated with each funding program. Users have the ability to create individual programs using a web form. Users may also create multiple programs at once by uploading tabular data in Comma Separated Values (CSV) format.

Below is the specification for the tabular data in each CSV file available for download:

Field Name	Data Type	Example	Description
agency	String	Federal Communications Commission	Government Agency under which the Program resides. This is a full-text Agency name (i.e., not abbreviated).
program	String	ABC Program	Name of broadband-support program used by the named Agency publicly. Agencies can decide at what level they define programs and sub-programs.
program_acronym	String	RDOF	Commonly used acronym for Program - <i>Value may be null.</i>
program_url	String	https://www.fcc.gov/auction/904	Web page describing the Program. - <i>Value may be null.</i>
authorized_date	Date	2022-06-01	Date of program's approval by Congress or Agency, as appropriate. - <i>Value must match valid ISO-8601 date format including the year, month, and day, e.g.: YYYY-MM-DD.</i>
funding_source	String	Federal Communications Commission	Funding Source for the Program. For Programs explicitly funded by legislation, this value should include the name and citation of the statute; for Programs funded by other means, this value should include source of authority that granted the Program funding.

Field Name	Data Type	Example	Description
program_desc	String	The Rural Digital Opportunity Fund was a reverse auction that provided support to connect rural homes and small businesses to high-speed broadband networks. RDOF prioritized higher network speeds and lower latency, so that those benefitting from these networks will be able to use tomorrow's Internet applications as well as today's.	Description of Program. This is a free-text overview of the Program for the public.
eligibility_desc	String		Description of eligibility rules. This is a free-text overview of any limits on participation in the Program. This can apply to the areas eligible for support (e.g., limits to rural or Tribal areas) or to entities that can receive support.
program_start	Date	2022-06-01	Date when this Program began. Agencies may use the date of the program's first award was made or funded. <i>- Value must match valid ISO-8601 date format including the year, month, and day, e.g.: YYYY-MM-DD.</i>
program_end	Date	2022-12-31	Date by which all buildout required under the Program should be completed or date of last disbursement, whichever is later <i>- Value may be null.</i> <i>- Value must match valid ISO-8601 date format including the year, month, and day, e.g.: YYYY-MM-DD if not null.</i>
mindown	Integer	100	Minimum download speed (in Mbps) required for all Projects under the Program. Individual Projects may require higher download speeds or providers may deploy a higher speed
minup	Integer	10	Minimum upload speed (in Mbps) required for all Projects under the Program. Individual Projects may require higher upload speeds or providers may deploy a higher speed

Field Name	Data Type	Example	Description
lowlatency	Boolean Integer	1	Boolean integer flag indicating whether the Program requires all Projects to provide low-latency service, defined as round-trip latency at 100 ms or below. - Value may be null. - Value must be one of the following codes if not null: 0 – False 1 – True
funding_type	Enumerated String	L	Federal funding type for the Program, whether the Program provides loans, grants, combinations or other types of support. - Value must be one of the following codes: L – Loan G – Grant C – Combination of Loan and Grant O – Other
funding_committed	Integer	1000000	The aggregate amount of federal funding (in dollars) at the Program level originally committed or assigned to all Projects (e.g., the original budget for the funding program).
funding_disbursed	Integer	500000	The aggregate amount of federal funding (in dollars), whether loans or grants, actually disbursed (sent) by the Federal Agency to recipients at the Program level (e.g., does not account for sub-granting). - Value should equal the net of the "funding_committed" value minus the "funding_revised" value once all funding has been disbursed for the Program.
funding_revised	Integer	100000	The aggregate amount of federal funding (in dollars) at the Program level that the Agency has increased or decreased resulting from a change to all Projects. Federal funding revisions may be due to changes in Project scope or may come about if a Project is canceled by the Agency or recipient. - Value should be negative for funding decreases and positive for funding increases relative to the funding originally committed.

Field Name	Data Type	Example	Description
funding_loan	Integer	10000	The aggregate amount of federal funding (in dollars) for loans at the Program level. - Value may be null. - Value should equal the net of the "funding_committed" value minus the "funding_revised" value minus the "funding_grant" value, if not null.
funding_grant	Integer	10000	The aggregate amount of federal funding (in dollars) for grants at the Program level. - Value may be null. - Value should equal the net of the "funding_committed" value minus the "funding_revised" value minus the "funding_loan" value, if not null.
program_cost	Integer	100000	The total cost (in dollars) of deploying all Projects supported by the Program. This value may be substantially higher than the funds obligated as it includes private capital as well as any matching funding from other sources, like states. - Value may be null.
assistance_listings	Decimal	12.345	Number assigned to the public description of federal programs that provide assistance awards. Formerly the Catalog of Federal Domestic Assistance (CFDA) number.
other_desc	String	Subsidy	Description of Agency-defined Funding Type - Value is required when "funding_type" value is "O" (Other) and must be null otherwise.

2.2 Project Data

There are three types of Project data that can be included within a Program:

1. **Projects defined by Area** - Projects defined by Area are comprised of two files that contain (1) Project Attribute information (in CSV format) and (2) broadband information within the Project Area (in a polygon file).
2. **Projects defined by Locations** - Projects defined by Locations are comprised of two files that contain (1) Project Attribute information, and (2) a listing of end-user locations that include provider, technology, and speed information.

2.2.1 Projects Defined by Area

2.2.1.1 Area-Based Project Attributes

Area-Based Project Attributes data must be submitted in tabular CSV format matching the following specification:

Field Name	Data Type	Example	Description
project	Text	Project XYZ	Free-text name assigned by the Agency for this Project for public use. Must be unique within the Program and may include information about provider, geography, technology, etc. <i>- Value must be unique within the program.</i>
tranche	Text	Tranche 1	Free-text name assigned by the Agency to describe groups of Projects for public use. These may represent years, phases, rounds, states, or other Agency-defined groups that help organize Projects into Programs. <i>- Value may be null.</i>
project_cost	Integer	1000000	The total cost (in dollars) of deploying this Project, regardless of whether funded by this Program. This value may be substantially higher than the federal funds obligated as it includes private capital as well as any matching funding from other sources, like states. <i>- Value may be null.</i>
buildout_requirement	Integer	100	The integer percentage of Broadband-Serviceable Locations in the Project area that the Provider is required to make service available to. <i>- Value should be 100 if the Provider is required to make service available to all locations, and may be less than 100 if the Provider is not required to make service available to all locations.</i>
locations_planned	Integer	1000	The total number of locations reported by the Agency in the buildout plan for the Project (i.e., not calculated based on the location list submitted), including locations that are not supported for deployment of last-mile broadband infrastructure by Agency funding. <i>- Value may need to be updated periodically if there are changes in the project to align with location counts in the area.</i>

Field Name	Data Type	Example	Description
locations_supported	Integer	500	The number of locations reported by the Agency that are supported for deployment of last-mile broadband infrastructure by Agency funding among the total number of locations provided. - Value may differ from the "locations_planned" value if the Agency is supporting the buildout of only some locations in a larger footprint.
project_start	Date	2022-06-01	The date when the Agency funding is first committed to the Project. - Value must match valid ISO-8601 date format including the year, month, and day, e.g.: YYYY-MM-DD.
project_end	Date	2026-12-31	The date by which all deployment must be completed for the Project. - Value must match valid ISO-8601 date format including the year, month, and day, e.g.: YYYY-MM-DD.
tribal_id	Text	0010R	Census Bureau's GEOID, used in their geospatial Tribal data, to designate Tribal areas. - Value must not be null for any record where the "tribal_location_pct" and "tribal_funding" values are not null, otherwise this value must be null. - Value must be a semicolon-delimited list corresponding to the order of values in the "tribal_location_pct" and "tribal_funding" for any Project that intersects multiple Tribal areas, if not null. - Value may include approved nonstandard GEOIDs, such as those associated with areas designated by the FCC as Tribal for purposes of High Cost Universal Service Fund programs.
tribal_location_pct	Integer	75	Percentage of locations for this Project that fall into Federally recognized Tribal lands, using Census Bureau geospatial data for Tribal definitions. - Value must be null for any record where the "tribal_id" and "tribal_funding" values are not null, otherwise value must be null. - Value must be a semicolon-delimited list corresponding to the order of values in the "tribal_id" and "tribal_funding" fields for any Project that intersects multiple Tribal areas, if not null.

Field Name	Data Type	Example	Description
tribal_funding	Integer	10000	Amount of federal funding (in dollars) dedicated to Federally recognized Tribal lands included within the Project. - Value is optional and may be null even for a Project that includes Tribal areas since funding amounts may not be expressly tied to Tribal areas. - Value must be null where the "tribal_id" and "tribal_location_pct" values are null. - Value must be a semicolon-delimited list corresponding to the order of values in the "tribal_id" and "tribal_location_pct" fields for any Project that intersects multiple Tribal areas, if not null.
cadence	Enumerated Integer	1	How often the Provider is required to report on progress for this Project. - Value is one of the following codes: 1 – Monthly 2 – Quarterly 3 – Biannually 4 – Annually
funding_obligated	Integer	1000000	Total federal funding (in dollars) for this Project under this Program, regardless of type (loans, grants, etc.). Depending on how the Agency adjusts or revises Program funding, this value may need to be updated one or more times to reflect any Project funding revisions. - Value may need to be periodically updated to reflect revisions depending on how the Agency adjusts or revises funding.
funding_awarded	Integer	100000	The amount of federal funding (in dollars) awarded or announced by the Agency to this Project to date. This value should be updated to reflect any defaults. - Value should equal "funding_obligated" if an Agency awards or announces all funding for a Project at once. - Value may need to be periodically updated to reflect additional awards or announcements, or to reflect revisions to the previously awarded or announced funding, depending on how the Agency awards or announces funding. - Value should equal "funding_obligated" once all funding has been awarded or announced.

Field Name	Data Type	Example	Description
funding_disbursed	Integer	100000	The aggregate amount of funding (in dollars) that the Agency has disbursed to the Provider for this Project under this Program as of a specific date. - Value may need to be periodically updated to reflect disbursements to date depending on how the Agency disburses funding. - Value should generally equal "funding_obligated" and "funding_awarded" at the completion of the project except in cases where disbursements were reduced due to penalties, withholdings, or other program-specific reasons.
funding_expended	Integer	100000	The amount of total funding (in dollars) that the Provider has expended for the Project to-date, if tracked by the Agency. - Value may be null if funding expenditures are not tracked by the Agency or reported by the Provider.
funding_loan	Integer	10000	Amount (in dollars) of the support provided by the Agency in the form of loans. - Value may be null.
funding_grant	Integer	10000	Amount (in dollars) of the support provided by the Agency in the form of grants. - Value may be null.

2.2.1.2 Area-Based Project GIS Data Attributes

Projects defined by area must include GIS data defining the contours of each project in a Project Area Data file. These data must be in one of the GIS file formats supported by the BFM system: ESRI Shapefile, ESRI FileGDB, GeoJSON, or Geopackage, and must contain polygon geometries with associated data attributes. The required fields and specifications for the data attributes for these GIS data files are provided in the table below. All values are required.

Field Name	Data Type	Example	Description
project	Text	Project XYZ	Free-text name assigned by the Agency for this Project for public use. Must be unique within the Program and may include information about provider, geography, technology, etc. - Value must be unique within the program.

Field Name	Data Type	Example	Description
tranche	Text	Tranche 1	Free-text name assigned by the Agency to describe groups of Projects for public use. These may represent years, phases, rounds, states, or other Agency-defined groups that help organize Projects into Programs. - Value may be null.
proj_gid	Integer	456	Agency-created unique integer to identify the Project Area Geometry (primary key). - Value must be unique within the Program. When Buildout data are uploaded, the "proj_gid" value within the Buildout file must correspond to the "proj_gid" value provided in the Project Area GIS file.
providerid	Integer	123456	FCC-provided ID for providers which aligns with the entity that files or will file BDC data. - Value must be a valid Provider ID issued by the FCC, or else value must be "1" if the Provider has not yet filed BDC data or been issued a Provider ID by the FCC. - The Provider IDs of all BDC filers whose data have been published are available as part of the Provider List data download available on the Broadband Map .
brandname	Text	Verizon	A name the Provider uses to offer service to the Public. This should be associated with the "providerid" in the provider's BDC filings for providers that file BDC data, or the planned name if the provider has not yet filed BDC data. - Value may be null. - Value must contain three characters or more, if not null. - Value will be displayed throughout the Funding Map, if not null. - The Holding Company name associated with the "providerid" value will be displayed throughout the Funding Map if value is null and "providerid" value is not 1, or else value on the map will default to "Service Provider".

Field Name	Data Type	Example	Description
technology	Enumerated Integer	50	Planned technology used by the Provider to make service available. These values match those used in BDC reporting. - Value is one of the following codes: 10 – Copper Wire 40 – Coaxial Cable / HFC 50 – Optical Carrier / Fiber to the Premises 60 – Geostationary Satellite 61 – Non-geostationary Satellite 70 – Unlicensed Terrestrial Fixed Wireless 71 – Licensed Terrestrial Fixed Wireless 72 – LBR Terrestrial Fixed Wireless 0 – Other - Value may be a semicolon-delimited list for any Project that contains multiple planned technologies. - Buildout data for this project must report a technology contained in this field.
maxdown	Integer	100	The lowest planned maximum download speed (in Mbps) the Provider is capable of offering in the area for this Project. This number does not represent the lowest speed the Provider will offer for service, but the lowest value of the technology's maximum speed. For example, if a Provider deploys gigabit FTTP, this value would be 1,000. If the Provider deploys DSL that has a maximum speed of 100 Mbps in some parts of the Project area and 25 Mbps in others, 25 should be reported
maxup	Integer	50	The lowest planned maximum upload speed (in Mbps) the Provider is capable of offering in the area for this Project. This number does not represent the lowest speed the Provider will offer for service, but the lowest value of the technology's maximum speed. For example, if a Provider deploys gigabit FTTP, this value would be 1,000. If the Provider deploys DSL that has a maximum speed of 100 Mbps in some parts of the Project area and 25 Mbps in others, 25 should be reported
geom	Geometry		Geospatial data, in WGS84 projection, that covers the extent of the Project. - Geometry must be unique to the proj_gid

2.2.1.3 Area-Based Project GIS Data Standards

1. All files must contain valid GIS data in a supported file format (i.e., ESRI Shapefile, ESRI FileGDB, GeoJSON, or GeoPackage).
2. For ESRI Shapefile or ESRI FileGDB data, GIS data must be submitted as a single Zip archive file.
3. GIS data must use the unprojected (geographic) WGS84 / EPSG:4326 coordinate reference system.
4. GIS data must contain well-formed 2D vector polygon data according to the OGC (Open Geospatial Consortium) rules.
5. GIS data must contain only closed polygons.

2.2.2 Projects Defined by a List of Locations

2.2.2.1 Location-Based Project Attributes

Location-Based Project Attributes data must be submitted in tabular CSV format matching the following specification:

Field Name	Data Type	Example	Description
project	Text	Project XYZ	Free-text name assigned by the Agency for this Project for public use. Must be unique within the Program and may include information about provider, geography, technology, etc. - <i>Value must be unique within the program.</i>
tranche	Text	Tranche 1	Free-text name assigned by the Agency to describe groups of Projects for public use. These may represent years, phases, rounds, states, or other Agency-defined groups that help organize Projects into Programs. - <i>Value may be null.</i>
project_cost	Integer	1000000	The total cost (in dollars) of deploying this Project, regardless of whether funded by this Program. This value may be substantially higher than the funds obligated as it includes private capital as well as any matching funding from other sources, like states. - <i>Value may be null.</i>

Field Name	Data Type	Example	Description
buildout_requirement	Integer	100	The integer percentage of Broadband-Serviceable Locations in the Project area that the Provider is required to make service available to. - <i>Value should be 100 if the Provider is required to make service available to all locations, and may be less than 100 if the Provider is not required to make service available to all locations.</i>
locations_planned	Integer	1000	The number of locations reported by the Agency in the buildout plan for the Project (i.e., not calculated based on the location list submitted, including locations that are not supported for deployment of last-mile broadband infrastructure by Agency funding. - <i>Value may need to be updated periodically if there are changes in the project to align with location counts in the area.</i>
locations_supported	Integer	500	The number of locations reported by the Agency that are supported for deployment of last-mile broadband infrastructure by agency funding among the locations provided. - <i>Value may differ from the "locations_planned" value if the Agency is supporting the buildout of only some locations in a larger footprint.</i>
project_start	Date	2022-06-01	The date when the Agency funding is first committed to the Project. - <i>Value must match valid ISO-8601 date format including the year, month, and day, e.g.: YYYY-MM-DD.</i>
project_end	Date	2026-12-31	The date by which all deployment must be completed for the Project. - <i>Value must match valid ISO-8601 date format including the year, month, and day, e.g.: YYYY-MM-DD.</i>

Field Name	Data Type	Example	Description
tribal_id	Text	0010R	Census Bureau's GEOID, used in their geospatial Tribal data, to designate Tribal areas. - Value must not be null for any record where the "tribal_location_pct" and "tribal_funding" values are not null, otherwise this value must be null. - Value must be a semicolon-delimited list corresponding to the order of values in the "tribal_location_pct" and "tribal_funding" for any Project that intersects multiple Tribal areas, if not null. - Value may include approved nonstandard GEOIDs, such as those associated with areas designated by the FCC as Tribal for purposes of High Cost Universal Service Fund programs.
tribal_location_pct	Integer	75	Percentage of locations for this Project that fall into Federally recognized Tribal lands, using Census Bureau geospatial data for Tribal definitions. - Value must be null for any record where the "tribal_id" and "tribal_funding" values are not null, otherwise value must be null. - Value must be a semicolon-delimited list corresponding to the order of values in the "tribal_id" and "tribal_funding" fields for any Project that intersects multiple Tribal areas, if not null.
tribal_funding	Integer	10000	Amount of funding (in dollars) dedicated to Federally recognized Tribal lands included within the Project. - Value is optional and may be null even for a Project that includes Tribal areas since funding amounts may not be expressly tied to Tribal areas. - Value must be null where the "tribal_id" and "tribal_location_pct" values are null. - Value must be a semicolon-delimited list corresponding to the order of values in the "tribal_id" and "tribal_location_pct" fields for any Project that intersects multiple Tribal areas, if not null.

Field Name	Data Type	Example	Description
cadence	Enumerated Integer	1	How often the Provider is required to report on progress for this Project. - Value is one of the following codes: 1 – Monthly 2 – Quarterly 3 – Biannually 4 – Annually
funding_obligated	Integer	1000000	Total federal funding (in dollars) for this Project under this Program, regardless of type (loans, grants, etc.). - Value may need to be periodically updated to reflect revisions depending on how the Agency adjusts or revises funding.
funding_awarded	Integer	100000	The amount of federal funding (in dollars) awarded or announced by the Agency to this Project to date. - Value should equal "funding_obligated" if an Agency awards or announces all funding for a Project at once. - Value may need to be periodically updated to reflect additional awards or announcements, or to reflect revisions to the previously awarded or announced funding, depending on how the Agency awards or announces funding. - Value should equal "funding_obligated" once all funding has been awarded or announced.
funding_disbursed	Integer	100000	The aggregate amount of funding (in dollars) that the Agency has disbursed to the Provider for this Project under this Program as of a specific date. - Value may need to be periodically updated to reflect disbursements to date depending on how the Agency disburses funding. - Value should generally equal "funding_obligated" and "funding_awarded" at the completion of the project except in cases where disbursements were reduced due to penalties, withholdings, or other program-specific reasons.
funding_expended	Integer	100000	The amount of total funding (in dollars) that the Provider has expended for the Project to-date, if tracked by the Agency. - Value may be null if funding expenditures are not tracked by the Agency or reported by the Provider.

Field Name	Data Type	Example	Description
funding_loan	Integer	10000	Amount (in dollars) of the support provided by the Agency in the form of loans. - <i>Value may be null.</i>
funding_grant	Integer	10000	Amount (in dollars) of the support provided by the Agency in the form of grants. - <i>Value may be null.</i>

2.2.2.2 Location-Based Project Location List

Projects defined by a list of locations must include tabular CSV data defining the details of each location, either from the Broadband Serviceable Location Fabric or else defined by geographic coordinates, that comprise the project.

Field Name	Data Type	Example	Description
project	Text	Project XYZ	Free-text name assigned by the Agency for this Project for public use. Must be unique within the Program and may include information about provider, geography, technology, etc. - <i>Value must be unique within the program.</i>
tranche	Text	Tranche 1	Free-text name assigned by the Agency to describe groups of Projects for public use. These may represent years, phases, rounds, states, or other Agency-defined groups that help organize Projects into Programs. - <i>Value may be null.</i>
providerid	Integer	123456	FCC-provided ID for providers which aligns with the entity that files or will file BDC data. - <i>Value must be a valid Provider ID issued by the FCC, or else value must be "1" if the Provider has not yet filed BDC data or been issued a Provider ID by the FCC.</i> - <i>The Provider IDs of all BDC filers whose data have been published are available as part of the Provider List data download available on the Broadband Map.</i>

Field Name	Data Type	Example	Description
brandname	Text	Verizon	A name the Provider uses to offer service to the Public. This should be associated with the "providerid" in the provider's BDC filings for providers that file BDC data, or the planned name if the provider has not yet filed BDC data. - Value may be null. - Value must contain three characters or more, if not null. - Value will be displayed throughout the Funding Map, if not null. - The Holding Company name associated with the "providerid" value will be displayed throughout the Funding Map if value is null and "providerid" value is not "1", or else value on the map will default to "Service Provider".
gid	Integer	123	Agency-created unique integer to identify the location (primary key). - Value must be unique within the Project.
technology	Enumerated Integer	50	Planned technology used by the Provider to make service available. These values match those used in BDC reporting. - Value is one of the following codes: 10 – Copper Wire 40 – Coaxial Cable / HFC 50 – Optical Carrier / Fiber to the Premises 60 – Geostationary Satellite 61 – Non-geostationary Satellite 70 – Unlicensed Terrestrial Fixed Wireless 71 – Licensed Terrestrial Fixed Wireless 72 – LBR Terrestrial Fixed Wireless 0 – Other - Value may be a semicolon-delimited list for any Project that contains multiple planned technologies. - Buildout data for this project must report a technology contained in this field.
maxdown	Integer	100	The lowest maximum download speed associated with the planned technology for this point (in Mbps).
maxup	Integer	50	The lowest maximum upload speed associated with the planned technology for this point (in Mbps).

Field Name	Data Type	Example	Description
location_type	Enumerated Integer	1	Indicator as to whether the location is a BSL as defined/captured in the FCC Fabric. - Value may be null. - Value is one of the following codes, if not null: 0 – Broadband Internet Access Service (BIAS) 1 – Non-BIAS 2 – Both
location_id	Integer	123456879	Unique identification number for the Broadband Serviceable Fabric Location. This number should not change, but providers may decide they will need to add/remove points over time and would then need to update this ID. - Value must be null when "latitude" and "longitude" values are not null. - Location will not show availability data on the Funding Map where value is a location that has a "bsl_flag" value of "false". - Location will not show availability data on the Funding Map where value is a location from a previous version of the Fabric that is no longer in the current Fabric dataset.
latitude	Decimal (10, 7)	38.903693	Unprojected (WGS-84) geographic coordinate latitude in decimal degrees of the location. - Value must be null when the "location_id" value is not null. - Value must have a minimum precision of 6 decimal digits, if not null.
longitude	Decimal (10, 7)	-77.009682	Unprojected (WGS-84) geographic coordinate longitude in decimal degrees of the location. - Value must be null when the "location_id" value is not null. - Value must have a minimum precision of 6 decimal digits, if not null.
address_primary	Text	123 Main Street	Address of the location conforming to USPS standards where feasible. - Value must be null when the "location_id" value is not null.

Field Name	Data Type	Example	Description
city	Text	Washington	Full name of the city, town, municipality or census designated place where the Project Buildout data will be deployed, conforming to USPS standards where feasible. - Value must be null when the "location_id" value is not null.
state	String (2)	DC	Two-letter USPS abbreviation identifying the state where the Project Buildout data will be deployed. - Value must be null when the "location_id" value is not null.
zip_code	String (5)	20002	Five-digit USPS ZIP code where the Project Buildout data will be deployed - Value must be null when the "location_id" value is not null.
zip_code_suffix	String (4)	1234	Four-digit USPS ZIP+4 code suffix, if applicable. - Value may be null.
no_units	Integer	3	Count of housing and/or business units that share the same location. If a building contains both housing and business units, the field contains the sum of both types. - Value must be null when location_id value is not null.

Field Name	Data Type	Example	Description
cai_type	Enumerated String	G	Community Anchor Institution type. - Value is one of the following codes: <i>S</i> – Location is a K-12 school, junior college, university (a Community Anchor Institution) that does/would not subscribe to a mass market service <i>L</i> – Location is a library (a Community Anchor Institution) that does/would not subscribe to a mass market service <i>G</i> – Location is a government building (a Community Anchor Institution) that does/would not subscribe to a mass market service <i>H</i> – Location is a healthcare building (a Community Anchor Institution) that does/would not subscribe to a mass market service <i>F</i> – Location is a public safety location (a Community Anchor Institution like Fire or EMS locations) that does/would not subscribe to a mass market service - Value may be null. - Value must be null when the "location_id" value is not null.
building_type_code	Enumerated String	B	The Building Type Code for the location. - Value is one of the following codes, if not null: <i>B</i> – Business-only location <i>R</i> – Residential-only location <i>X</i> – Business and Residential location <i>G</i> – Group Quarters location <i>C</i> – Community Anchor Institution <i>E</i> – Enterprise location <i>O</i> – Other - Value may be null. - Value must be null when the "location_id" value is not null. - Value is "O" (Other) as a default value when the "location_id" value is null (i.e., a latitude/longitude is provided in place of a location_id) and the agency did not specify a "building_type_code" value.

2.3 Buildout Data

Buildout data includes a listing of completed Buildouts from the Project data. Buildouts are associated with the Project file based on their type:

1. **Projects defined by Area** - A single file contains a listing of end-user buildout locations by provider, technology, and speed, along with completion dates. These Buildouts are located within a previously defined Project polygon boundary.
2. **Projects defined by Location** - A single file contains a listing of completed end-user buildout locations, linked by the gid values provided within the Project's Location List data.

2.3.1 Area Buildout File

This file must contain a listing of end-user buildout locations by provider, technology, and speed, along with completion dates in the following tabular CSV format:

Field Name	Data Type	Example	Description
project	Text	Project XYZ	Free-text name assigned by the Agency for this Project for public use. Must be unique within the Program and may include information about provider, geography, technology, etc. - Value must correspond to the Project name within the Project Area GIS file.
tranche	Text	Tranche 1	Free-text name assigned by the Agency to describe groups of Projects for public use. These may represent years, phases, rounds, states, or other Agency-defined groups that help organize Projects into Programs. - Value must correspond to a valid project and tranche combination within the Project Area GIS file.
proj_gid	String	123	Agency-created unique string to identify the Project Area Geometry (primary key). - Value must be unique within the Program. - When Buildout data are uploaded, the "proj_gid" value within the Buildout file must correspond to the "proj_gid" value provided in the Project Area GIS file.
location_type	Enumerated Integer	1	Indicator as to whether the location is a BSL as defined/captured in the FCC Fabric. - Value is one of the following codes: 0 – Broadband Internet Access Service (BIAS) 1 – Non-BIAS 2 – Both

Field Name	Data Type	Example	Description
location_id	Integer	123456879	Unique identification number for the Broadband Serviceable Fabric Location. This number should not change, but Providers may decide they will need to add/remove points over time and would then need to update this ID. - Value must be null when "latitude" and "longitude" values are not null. - Location will not show availability data on the Funding Map where value is a location that has a "bsl_flag" value of false. - Location will not show availability data on the Funding Map where value is a location from a previous version of the Fabric that is no longer in the current Fabric dataset.
gid	String	123	Agency-created unique integer to identify the location. - Value must be unique within the Project.
no_units	Integer	3	Count of housing and/or business units that share the same location. If a building contains both housing and business units, the field contains the sum of both types. - Value must be null when the "location_id" value is not null.
latitude	Decimal (10, 7)	38.903693	Unprojected (WGS-84) geographic coordinate latitude in decimal degrees of the location. - Value must be null when the "location_id" value is not null. - Value must have a minimum precision of 6 decimal digits, if not null.
longitude	Decimal (10, 7)	-77.009682	Unprojected (WGS-84) geographic coordinate longitude in decimal degrees of the location. - Value must be null when the "location_id" value is not null. - Value must have a minimum precision of 6 decimal digits, if not null.

Field Name	Data Type	Example	Description
cai_type	Enumerated String	S	Community Anchor Institution type. - Value is one of the following codes: <i>S</i> – Location is a K-12 school, junior college, university (a Community Anchor Institution) that does/would not subscribe to a mass market service <i>L</i> – Location is a library (a Community Anchor Institution) that does/would not subscribe to a mass market service <i>G</i> – Location is a government building (a Community Anchor Institution) that does/would not subscribe to a mass market service <i>H</i> – Location is a healthcare building (a Community Anchor Institution) that does/would not subscribe to a mass market service <i>F</i> – Location is a public safety location (a Community Anchor Institution like Fire or EMS locations) that does/would not subscribe to a mass market service - Value may be null. - Value must be null when the "location_id" value is not null.
ofs_date	Date	2022-06-01	The Open for Sale (OFS) date signifying when the deployed technology is made available to consumers, generally after the deployment date. - Value may be null.
deployed_date	Date	2025-12-31	The date the location was made available for service or that service availability was first reported and/or certified to the Agency. This date does not necessarily reflect the installation of the drop, but a location that is reported as deployed must meet the requirements for reporting to the FCC as part of the Broadband Data Collection (i.e., that the unit can be connected within 10 business days without a charge beyond a reasonable or standard installation fee).

Field Name	Data Type	Example	Description
providerid	Integer	123456789	FCC-provided ID for providers which aligns with the entity that files or will file BDC data. - Value must be a valid Provider ID issued by the FCC, or else value must be "1" if the Provider has not yet filed BDC data or been issued a Provider ID by the FCC. - The Provider IDs of all BDC filers whose data have been published are available as part of the Provider List data download available on the Broadband Map.
brandname	Text	Verizon	A name the Provider uses to offer service to the Public. This should be associated with the "providerid" in the provider's BDC filings for providers that file BDC data, or the planned name if the provider has not yet filed BDC data. - Value may be null. - Value must contain three characters or more, if not null. - Value will be displayed throughout the Funding Map, if not null. - The Holding Company name associated with the "providerid" value will be displayed throughout the Funding Map if value is null and "providerid" value is not 1, or else value on the map will default to "Service Provider".
technology	Enumerated Integer	50	Last-mile technology used by the Provider to make service available. These values match those used in BDC reporting. - Value is one of the following codes: 10 – Copper Wire 40 – Coaxial Cable / HFC 50 – Optical Carrier / Fiber to the Premises 60 – Geostationary Satellite 61 – Non-geostationary Satellite 70 – Unlicensed Terrestrial Fixed Wireless 71 – Licensed Terrestrial Fixed Wireless 72 – LBR Terrestrial Fixed Wireless 0 – Other - Value must match a value contained in the "technology" field in the associated Project Area GIS file.
maxdown	Integer	100	The lowest maximum download speed associated with the technology for this point (in Mbps).

Field Name	Data Type	Example	Description
maxup	Integer	50	The lowest maximum upload speed associated with the technology for this point (in Mbps).
address_primary	Text	123 Main Street	Address of the location conforming to USPS standards where feasible. - Value must be null when the "location_id" value is not null.
city	Text	Washington	Full name of the city, town, municipality or census designated place where the Project Buildout data have been deployed, conforming to USPS standards where feasible. - Value must be null when the "location_id" value is not null.
state	String {2}	DC	Two-letter USPS abbreviation identifying the state where the Project Buildout data have been deployed. - Value must be null when the "location_id" value is not null.
zip_code	String {5}	20002	Five-digit USPS ZIP code where the Project Buildout data have been deployed - Value must be null when the "location_id" value is not null.
zip_code_suffix	String {4}	1234	Four-digit USPS ZIP+4 code suffix, if applicable. - Value may be null.
building_type_code	Enumerated String	B	The Building Type Code for the location. - Value is one of the following codes, if not null: B – Business-only location R – Residential-only location X – Business and Residential location G – Group Quarters location C – Community Anchor Institution E – Enterprise location O – Other - Value may be null. - Value must be null when the "location_id" value is not null. - Value is "O" (Other) as a default value when the "location_id" value is null (i.e., a latitude/longitude is provided in place of a location_id) and the agency did not specify a "building_type_code" value.

2.3.2 Location Buildout File

This file must contain a listing of completed end-user buildout locations with completion dates in the following tabular CSV format:

Field Name	Data Type	Example	Description
project	Text	Project XYZ	Free-text name assigned by the Agency for this Project for public use. Must be unique within the Program and may include information about provider, geography, technology, etc. <i>- Value must correspond to the Project name within the Project Location List file.</i>
gid	Integer	123	Agency-created unique integer to identify the location. <i>- Value must be unique within the Project.</i>
technology	Enumerated Integer	50	Last-mile technology used by the Provider to make service available. These values match those used in BDC reporting. <i>- Value is one of the following codes:</i> <i>10 – Copper Wire</i> <i>40 – Coaxial Cable / HFC</i> <i>50 – Optical Carrier / Fiber to the Premises</i> <i>60 – Geostationary Satellite</i> <i>61 – Non-geostationary Satellite</i> <i>70 – Unlicensed Terrestrial Fixed Wireless</i> <i>71 – Licensed Terrestrial Fixed Wireless</i> <i>72 – LBR Terrestrial Fixed Wireless</i> <i>0 – Other</i> <i>- Value must match a value contained in the "technology" field in the associated Project Location List file.</i>
maxdown	Integer	100	The lowest maximum download speed associated with the technology for this point (in Mbps).
maxup	Integer	50	The lowest maximum upload speed associated with the technology for this point (in Mbps).
ofs_date	Date	2022-06-01	The Open for Sale (OFS) date signifying when the deployed technology is made available to consumers, generally after the deployment date. <i>- Value may be null.</i>

Field Name	Data Type	Example	Description
deployed_date	Date	2025-12-31	The date the location was made available for service or that service availability was first reported and/or certified to the Agency. This date does not necessarily reflect the installation of the drop, but a location that is reported as deployed must meet the requirements for reporting to the FCC as part of the Broadband Data Collection (i.e., that the unit can be connected within 10 business days without a charge beyond a reasonable or standard installation fee).