



Broadband Funding Map

Specifications for Data Downloads from the Broadband Funding Map

July 14, 2023

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Change Log

Revision	Date	Comments
1.0	2023-07-14	Initial release.

1 Overview

This document outlines the data files that are generated and outputted by, and available for download from, the Broadband Funding Map system at <https://fundingmap.fcc.gov/>. This document details the formatting and field-specific information associated with each data file.

2 File Naming Conventions, Abbreviations, and Definitions

The names of the files available for download from the BFM system use file naming conventions with certain abbreviations and references described in the table below.

Field	Description / Notes
Program ID	Unique identifier for the Program
Project ID	Unique identifier for the Project
Current Date	The date on which the file was downloaded, in YYYYMMDD format
State FIPS	2-Digit FIPS code for the selected state/territory from the current U.S. Census Bureau data (leading zero included)

For example, one of the Unserved/Unfunded data files uses the following for its filename:

- *state{State FIPS}_unserved_unfunded_{Current Date}.zip*

Therefore, in this example, a file downloaded on June 30, 2023 for the state of Delaware would be named:

- *state10_unserved_unfunded_20230630.zip*

In addition, the Unserved/Unfunded data available for download include data on the H3 hexagonal cell associated with a location point or coverage area. H3 is an open-source geospatial indexing system based on hierarchical/nested hexagons at 16 different resolutions or areas. For more information about the H3 Geospatial Indexing system, see <https://h3geo.org>.

3 Data Available for Public Download from the Broadband Funding Map

The public can download various datasets, described from this section, from the Data Download page of the Broadband Funding Map.

3.1 Funding Data by Agency

On the Funding Data tab of the Broadband Funding Map Data Download page, users can select an Agency name from a dropdown menu. Once an Agency is selected, the user can search and select a Program for which they intend to download data.

Once a Program is selected, all Projects within that Program are displayed within a table on the page. A user may elect to download all Project data within a Program, or they may elect to download data for an individual Project within a Program.

When a user clicks the “Download All Project Data” link on the Data Download page, a zipped file will be downloaded with the following file naming structure:

- *fundingdata_program{program ID}_{current date}.zip*

When a user clicks the cloud icon to download data for an individual Project, a zipped file will be downloaded with the following file naming structure:

- *fundingdata_project{project ID}_{current date}.zip*

The contents within each zipped file are dependent on the raw data that have been uploaded by the Agency for the respective Project or Program.

3.1.1 Program Data

These files contain both general and broadband-related information associated with each Program and are available for download in Comma Separated Value (CSV) format within a zipped archive with the following naming structure:

- When a user clicks the “Download All Project Data” link, the file will be named *programdata_program{program ID}.csv*
- When a user clicks the cloud icon to download data for an individual Project, the file will be named *programdata_program{program ID}_project{project ID}.csv*

Specifications for the tabular data in this CSV file are provided in the table below:

Field Name	Data Type	Example	Description
agency_name	Text	Federal Communications Commission	Government Agency under which the Program resides.
program_id	Integer	29	ID assigned to the Program.
program_name	Text	ABC Program	Name of broadband-support program used publicly by the named Agency.
authorization_date	Date	2022-06-01	Date of approval by Congress or Agency, as appropriate.
elig_rules_desc	Text		Description of eligibility rules. This is a free-text overview of any limits on participation in the Program.
program_start_date	Date	2022-06-01	Date when this Program was first created or funded.
program_end_date	Date	2022-12-31	Date by which all buildout required under the Program should be completed or date of last disbursement, whichever is later.

Field Name	Data Type	Example	Description
funding_source	Text	Federal Communications Commission	Funding Source for the Program – i.e., for Programs explicitly funded by legislation, the name and cite of the statute; for Programs funded in other ways, the Program or authority that raised the funding.
funding_type	Enumerated String	L	Funding type for the Program - whether the Program provides loans, grants, combinations or other types of support. - <i>Value is one of the following codes:</i> L – Loan G – Grant C – Combination of Loan and Grant
funding_obligated	Integer	1000000	The aggregate amount of funding (in dollars) at the Program level assigned to specific Projects.
funding_disbursed	Integer	500000	The aggregate amount of funding (in dollars), whether loans or grants, actually disbursed (sent) by the Federal Agency to recipients at the Program level.
funding_defaulted	Integer	100000	The aggregate amount of funding (in dollars) at the Program level that recipients have indicated they will not use and are returning or have returned to the Agency.
min_download_spd	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.
min_upload_spd	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.
low_latency	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. - <i>Value is one of the following codes:</i> 0 – False 1 – True
program_desc	Text		Description of Program. This is a free-text overview of the Program for the public.
funding_grant	Integer	10000	The aggregate amount of funding (in dollars) for grants at the Program level.
program_cost	Integer	100000	The total cost (in dollars) of deploying all Projects supported by the Program.

Field Name	Data Type	Example	Description
funding_loan	Integer	10000	The aggregate amount of funding (in dollars) for loans at the Program level.
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.
program_acronym	Text	RDOF	Commonly used acronym for Program.
program_url	Text	https://www.fcc.gov/auction/904	Web page describing the Program.

3.1.2 Project Data

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

1. **Projects defined by an 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 a list of 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.
3. **Projects defined by Middle Mile** - Middle Mile Projects are comprised of two files that contain (1) Project attribute information, and (2) a listing of middle mile line segments included by provider, technology, and speed.

3.1.2.1 Area Attributes File

These files are available for download in Comma Separated Value (CSV) format within a zipped archive with the following naming structure:

- When a user clicks the “Download All Project Data” link, the file will be named *areaattributes_program{program ID}.csv*
- When a user clicks the cloud icon to download data for an individual Project, the file will be named *areaattributes_program{program ID}_project{project ID}.csv*

Specifications for the tabular data in this CSV file are provided in the table below:

Field Name	Data Type	Example	Description
program_id	Integer	29	ID assigned to the Program
project_id	Integer	456	ID assigned to the Project
project	Text	Project XYZ	Free-text name assigned by the Agency for this Project for public use.

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.
fund_ob	Integer	1000000	Total funding (in dollars) for this Project under this Program, regardless of type (loans, grants, etc.).
project_cost	Integer	1000000	The total cost (in dollars) of deploying this Project, regardless of whether funded by this Program.
proj_start	Date	2022-06-01	The date when funding is first committed (or publicly announced to the Project).
proj_end	Date	2026-12-31	The date by which all deployment must be completed for the Project.
tribal_id	Text	0010R	Census Bureau's GEOID, used in their geospatial Tribal data, to designate Tribal areas.
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.
tribal_funding	Integer	10000	Amount of funding (in dollars) dedicated to Federally recognized Tribal lands included within the Project.
cadence	Enumerated Integer	1	How often the Provider is required to report on progress for this Project. - <i>Value is one of the following codes:</i> 1 – Monthly 2 – Quarterly 3 – Biannually 4 – Annually
fund_awarded	Integer	100000	The amount of funding (in dollars) awarded/committed by the Agency to this Project.
fund_expended	Integer	100000	The amount of funding (in dollars) that the Provider has expended across the lifetime of the Project.
fund_loan	Integer	10000	Amount (in dollars) of the support provided by the Agency in the form of loans.
fund_grant	Integer	10000	Amount (in dollars) of the support provided by the Agency in the form of grants.

3.1.2.2 Area Data File

These files contain GIS data with polygon geometries and associated data attributes in GeoPackage (.gpkg) format within a zipped archive with the following naming structure:

- When a user clicks the “Download All Project Data” link, the file will be named *areapolygons_program{program ID}.csv*
- When a user clicks the cloud icon to download data for an individual Project, the file will be named *areapolygons_program{program ID}_project{project ID}.gpkg*

Specifications for the data attributes for these GIS data files are provided in the table below:

Field Name	Data Type	Example	Description
fid	Integer	10	ID assigned to the Field.
program_id	Integer	29	ID assigned to the Program.
proj_gid	Integer	456	Agency-created unique integer to identify the Project Area Geometry
project	Text	Project XYZ	Free-text name assigned by the Agency for this Project for public use.
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.
providerid	Integer	123456	FCC-provided ID for Providers that aligns with the entity that files or will file BDC data.
brandname	Text	Verizon	A name the Provider uses to offer service to the Public.
build_req	Integer	100	The fraction of Broadband-Serviceable Locations in the Project area to which the Provider is required to make service available.
loc_plan	Integer	1000	The number of locations reported by the Agency in the buildout plan for the Project.
loc_sup	Integer	500	The number of locations reported by the Agency as supported within the Project boundary.
project_id	Integer	123	ID assigned to the Project

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
maxdown	Integer	100	The lowest planned maximum download speed (in Mbps) the Provider is capable of offering in the area for this Project.
maxup	Integer	50	The lowest planned maximum upload speed (in Mbps) the Provider is capable of offering in the area for this Project.

3.1.2.3 Location Attributes File

These files are available for download in Comma Separated Value (CSV) format within a zipped archive with the following naming structure:

- When a user clicks the “Download All Project Data” link, the file will be named *locationattributes_program{program ID}.csv*
- When a user clicks the cloud icon to download data for an individual Project, the file will be named *locationattributes_program{program ID}_project{project ID}.csv*

Specifications for the tabular data in this CSV file are provided in the table below:

Field Name	Data Type	Example	Description
program_id	Integer	29	ID assigned to the Program
project_id	Integer	123	ID assigned to the Project
project	Text	Project XYZ	Free-text name assigned by the Agency for this Project for public use.
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.
fund_ob	Integer	1000000	Total funding (in dollars) for this Project under this Program, regardless of type.

Field Name	Data Type	Example	Description
project_cost	Integer	1000000	The total cost (in dollars) of deploying this Project, regardless of whether funded by this Program.
build_req	Integer	100	The fraction of Broadband-Serviceable Locations in the Project area to which the Provider is required to make service available.
loc_plan	Integer	1000	The number of locations reported by the Agency in the buildout plan for the Project.
loc_sup	Integer	500	The number of locations reported by the Agency as supported among the locations provided.
proj_start	Date	2022-06-01	The date when funding is first committed (or publicly announced to the Project.
proj_end	Date	2022-12-31	The date by which all deployment must be completed for the Project.
tribal_id	Text	0010R	Census Bureau's geoid, used in their geospatial Tribal data, to designate Tribal areas.
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.
tribal_funding	Integer	10000	Amount of funding (in dollars) dedicated to Federally recognized Tribal lands included within the Project.
cadence	Enumerated Integer	1	How often the Provider is required to report on progress for this Project. - <i>Value is one of the following codes:</i> 1 – Monthly 2 – Quarterly 3 – Biannually 4 – Annually
fund_awarded	Integer	100000	The amount of funding (in dollars) awarded/committed by the Agency to this Project.
fund_expended	Integer	100000	The amount of funding (in dollars) that the Provider has expended across the lifetime of the Project.
fund_loan	Integer	10000	Amount (in dollars) of the support provided by the Agency in the form of loans.
fund_grant	Integer	10000	Amount (in dollars) of the support provided by the Agency in the form of grants.

3.1.2.4 Location List File

These files are available for download in Comma Separated Value (CSV) format within a zipped archive with the following naming structure:

- When a user clicks the “Download All Project Data” link, the file will be named *locationlist_program{program ID}.csv*
- When a user clicks the cloud icon to download data for an individual Project, the file will be named *locationlist_program{program ID}_project{project ID}.csv*

Specifications for the tabular data in this CSV file are provided in the table below:

Field Name	Data Type	Example	Description
program_id	Integer	29	ID assigned to the Program
project_id	Integer	123	ID assigned to the Project
project	Text	Project XYZ	Free-text name assigned by the Agency for this Project for public use.
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.
providerid	Integer	123456	FCC-provided ID for Providers that will align with the entity that files or will file BDC data.
brandname	Text	Verizon	A name the Provider uses to offer service to the Public.
gid	Integer	123	Agency-created unique integer to identify the location
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
maxdown	Integer	100	The lowest maximum download speed associated with the planned technology for this point (in Mbps).

Field Name	Data Type	Example	Description
maxup	Integer	50	The lowest maximum upload speed associated with the planned technology for this point (in Mbps).
location_type	Enumerated Integer	1	Indicator as to whether the location is a BSL as defined/captured in the FCC Fabric. - <i>Value is one of the following codes:</i> 0 – <i>Broadband Internet Access Service (BIAS)</i> 1 – <i>Non-BIAS</i> 2 – <i>Both</i>
location_id	Integer	123456879	Unique identification number for the Broadband Serviceable Fabric Location.
latitude	Decimal (10, 7)	38.903693	Unprojected (WGS-84) geographic coordinate latitude in decimal degrees of the location.
longitude	Decimal (10, 7)	-77.009682	Unprojected (WGS-84) geographic coordinate longitude in decimal degrees of the location.
address_primary	Text	123 Main Street	Address of the location.
city	Text	Washington	Full name of the city, town, municipality or census designated place where the Project Buildout data will be deployed.
state	String (2)	DC	Two-letter USPS abbreviation identifying the state where the Project Buildout data will be deployed.
zip_code	String (5)	20002	Five-digit USPS ZIP code where the Project Buildout data will be deployed
zip_code_suffix	String (4)	1234	Four-digit USPS ZIP+4 code suffix, if applicable
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.

Field Name	Data Type	Example	Description
cai_type	Enumerated String	G	<p>Community Anchor Institution type.</p> <p>- Value is one of the following codes:</p> <p><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</p> <p><i>L</i> – Location is a library (a Community Anchor Institution) that does/would not subscribe to a mass market service</p> <p><i>G</i> – Location is a government building (a Community Anchor Institution) that does/would not subscribe to a mass market service</p> <p><i>H</i> – Location is a healthcare building (a Community Anchor Institution) that does/would not subscribe to a mass market service</p> <p><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</p>

3.1.2.5 Middle Mile Attribute File

These files are available for download in Comma Separated Value (CSV) format within a zipped archive with the following naming structure:

- When a user clicks the “Download All Project Data” link, the file will be named *middlemileattributes_program{program ID}.csv*
- When a user clicks the cloud icon to download data for an individual Project, the file will be named *middlemileattributes_program{program ID}_project{project ID}.csv*

Specifications for the tabular data in this CSV file are provided in the table below:

Field Name	Data Type	Example	Description
program_id	Integer	29	ID assigned to the Program
project_id	Integer	123	ID assigned to the Project
project	Text	Project XYZ	Free-text name assigned by the Agency for this Project for public use.
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.
fund_ob	Integer	1000000	Total funding (in dollars) for this Project under this Program, regardless of type.

Field Name	Data Type	Example	Description
project_cost	Integer	1000000	The total cost (in dollars) of deploying this Project, regardless of whether funded by this Program.
proj_start	Date	2022-06-01	The date when funding is first committed (or publicly announced to the Project.
proj_end	Date	2022-12-31	The date by which all deployment must be completed for the Project.
tribal_id	Text	0010R	Census Bureau's geoid, used in their geospatial Tribal data, to designate Tribal areas.
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.
tribal_funding	Integer	10000	Amount of funding (in dollars) dedicated to Federally recognized Tribal lands included within the Project.
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
fund_awarded	Integer	100000	The amount of funding (in dollars) awarded/committed by the Agency to this Project.
fund_expended	Integer	100000	The amount of funding (in dollars) that the Provider has expended across the lifetime of the Project.
fund_loan	Integer	10000	Amount (in dollars) of the support provided by the Agency in the form of loans.
fund_grant	Integer	10000	Amount (in dollars) of the support provided by the Agency in the form of grants.

3.1.2.6 Middle Mile Line Segment File

These files contain GIS data with line segment geometries and associated data attributes in GeoPackage (.gpkg) format within a zipped archive with the following naming structure:

- When a user clicks the “Download All Project Data” link, the file will be named *middlemilelist_program{program ID}.csv*
- When a user clicks the cloud icon to download data for an individual Project, the file will be named *middlemilelist_program{program ID}_project{project ID}.gpkg*

Specifications for the data attributes for these GIS data files are provided in the table below:

Field Name	Data Type	Example	Description
fid	Integer	10	ID assigned to the Field
program_id	Integer	29	ID assigned to the Program
project_id	Integer	123	ID assigned to the Project
project	Text	Project XYZ	Free-text name assigned by the Agency for this Project for public use.
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.
providerid	Integer	123456	FCC-provided ID for Providers that aligns with the entity that files or will file BDC data.
brandname	Text	Verizon	A name the Provider uses to offer service to the Public.
gid	Integer	123	Agency-created unique integer to identify each line segment submitted
technology	Enumerated Integer	50	Planned 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> 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
downlink	Integer	100	The planned physical layer downlink speed (in Mbps) the Middle Mile line segment is capable of providing.
uplink	Integer	50	The planned physical layer uplink speed (in Mbps) the Middle Mile line segment is capable of providing.

3.1.3 Buildout Data

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

1. **Projects defined by an 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 a list of Locations** - 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.
3. **Projects defined by Middle Mile** - A single file contains a listing of completed end-user buildout line segments, linked by the gid values provided within the Project's Line Segment GIS data.

3.1.3.1 Area Buildout File

These files are available for download in Comma Separated Value (CSV) format within a zipped archive with the following naming structure:

- When a user clicks the "Download All Project Data" link, the file will be named *areabuildout_program{program ID}.csv*
- When a user clicks the cloud icon to download data for an individual Project, the file will be named *areabuildout_program{program ID}_project{project ID}.csv*

Specifications for the tabular data in this CSV file are provided in the table below:

Field Name	Data Type	Example	Description
program_id	Integer	29	ID assigned to the Program
project_id	Integer	123	ID assigned to the Project
project	Text	Project XYZ	Free-text name assigned by the Agency for this Project for public use.
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.
proj_gid	Integer	123	Agency-created unique integer to identify the Project Area Geometry.
gid	Integer	123	Agency-created unique integer to identify the location.

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. - <i>Value is one of the following codes:</i> 0 – Broadband Internet Access Service (BIAS) 1 – Non-BIAS 2 – Both
location_id	Integer	123456879	Unique identification number for the Broadband Serviceable Fabric Location.
no_units	Integer	3	Count of housing and/or business units that share the same location.
latitude	Decimal (10, 7)	38.903693	Unprojected (WGS-84) geographic coordinate latitude in decimal degrees of the location.
longitude	Decimal (10, 7)	-77.009682	Unprojected (WGS-84) geographic coordinate longitude in decimal degrees of the location.
cai_type	Enumerated String	S	Community Anchor Institution type - <i>Value is one of the following codes:</i> S – Location is a K-12 school, junior college, university (a Community Anchor Institution) that does/would not subscribe to a mass market service L – Location is a library (a Community Anchor Institution) that does/would not subscribe to a mass market service G – Location is a government building (a Community Anchor Institution) that does/would not subscribe to a mass market service H – Location is a healthcare building (a Community Anchor Institution) that does/would not subscribe to a mass market service F – 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
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.
deployed_date	Date	2025-12-31	The date the location was made available for service.
providerid	Integer	123456789	FCC-provided ID for Providers that will align with the entity that files or will file BDC data.
brandname	Text	Verizon	A name the Provider uses to offer service to the Public.

Field Name	Data Type	Example	Description
technology	Enumerated Integer	50	Last-mile technology used by the Provider to make service available. The values match those used in BDC. - 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
maxdown	Integer	100	The maximum download speed associated with the technology for this point (in Mbps).
maxup	Integer	50	The maximum upload speed associated with the technology for this point (in Mbps).
address_primary	Text	123 Main Street	Address of the deployed location.
city	Text	Washington	Full name of the city, town, municipality or census designated place where the Project Buildout has been deployed.
state	String {2}	DC	Two-letter USPS abbreviation identifying the state where the Project Buildout has been deployed.
zip_code	String {5}	20002	Five-digit USPS ZIP code where the Project Buildout has been deployed.
zip_code_suffix	String {4}	1234	Four-digit USPS ZIP+4 code suffix, if applicable.

3.1.3.2 Location Buildout File

These files are available for download in Comma Separated Value (CSV) format within a zipped archive with the following naming structure:

- When a user clicks the “Download All Project Data” link, the file will be named *locationbuildout_program{program ID}.csv*
- When a user clicks the cloud icon to download data for an individual Project, the file will be named *locationbuildout_program{program ID}_project{project ID}.csv*

Specifications for the tabular data in this CSV file are provided in the table below:

Field Name	Data Type	Example	Description
program_id	Integer	29	ID assigned to the Program
project_id	Integer	123	ID assigned to 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.
gid	Integer	123	Agency-created unique integer to identify the location.
technology	Enumerated Integer	50	<p>Last-mile technology used by the Provider to make service available. The values match those used in BDC reporting.</p> <p>- Value is one of the following codes:</p> <p>10 – Copper Wire</p> <p>40 – Coaxial Cable / HFC</p> <p>50 – Optical Carrier / Fiber to the Premises</p> <p>60 – Geostationary Satellite</p> <p>61 – Non-geostationary Satellite</p> <p>70 – Unlicensed Terrestrial Fixed Wireless</p> <p>71 – Licensed Terrestrial Fixed Wireless</p> <p>72 – LBR Terrestrial Fixed Wireless</p> <p>0 – Other</p>
maxdown	Integer	100	The maximum download speed (in Mbps) for service at this location.
maxup	Integer	50	The maximum upload speed (in Mbps) for service at this location.
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.
deployed_date	Date	2025-12-31	The date the location was made available for service.

3.1.3.3 Middle Mile Buildout File

These files are available for download in Comma Separated Value (CSV) format within a zipped archive with the following naming structure:

- When a user clicks the “Download All Project Data” link, the file will be named *middlemilebuildout_program{program ID}.csv*
- When a user clicks the cloud icon to download data for an individual Project, the file will be named *middlemilebuildout_program{program ID}_project{project ID}.csv*

Specifications for the tabular data in this CSV file are provided in the table below:

Field Name	Data Type	Example	Description
program_id	Integer	29	ID assigned to the Program.
project_id	Integer	123	ID assigned to the Project.
project	Text	Project XYZ	Free-text name assigned by the Agency for this Project for public use.

Field Name	Data Type	Example	Description
gid	Integer	123	Agency-created unique integer to identify the line segment (primary key).
technology	Enumerated Integer	50	<p>Technology used by the Provider to make service available. These values match those used in BDC reporting.</p> <p>- Value is one of the following codes:</p> <p>10 – Copper Wire</p> <p>40 – Coaxial Cable / HFC</p> <p>50 – Optical Carrier / Fiber to the Premises</p> <p>60 – Geostationary Satellite</p> <p>61 – Non-geostationary Satellite</p> <p>70 – Unlicensed Terrestrial Fixed Wireless</p> <p>71 – Licensed Terrestrial Fixed Wireless</p> <p>72 – LBR Terrestrial Fixed Wireless</p> <p>0 – Other</p>
downlink	Integer	100	The physical layer downlink speed (in Mbps) the Middle Mile line segment is capable of providing.
uplink	Integer	50	The physical layer uplink speed (in Mbps) the Middle Mile line segment is capable of providing.
deployed_date	Date	2023-12-31	The date when the Middle Mile technology is deployed along the relevant line segment.

3.1 Unserved/Unfunded Data by State

On the Unserved/Unfunded Data tab of the Broadband Funding Map Data Download page, users can search for a State Name within a filter, then click the cloud icon to download a listing of locations within that state that are Unserved and/or Unfunded at various technology/speed combinations.

When a user clicks the cloud icon to download data for a state, a zipped file will be downloaded with the following file naming structure:

- *state{State FIPS}_unserved_unfunded_{current date}.zip*

Within the zipped file will be a Comma Separated Value (CSV) file with the following naming structure:

- *state{State FIPS}_unserved_unfunded_{current date}.csv*

The downloaded file will include a list of locations within the selected state that are Unserved and Unfunded at various technology/speed combinations. Each location within the file is Unserved/Unfunded at one or more technology/speed combinations. There are six residential technology/speed combinations (signified by an “r” within the column header) and six business technology/speed combinations (signified by a “b” within the column header).

- A “U” within a row signifies that the location is Unserved **and** Unfunded - i.e., no availability data or funding data exist at the selected technology/speed combination for that location
- A “C” within the file signifies that the location is Covered - i.e., availability data and/or funding data exist at the selected technology/speed combination for that location
- Locations that are Covered at all technology/speed combinations are not included within the data download.

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

Field Name	Data Type	Example	Description
location_id	Integer	123456879	Unique identification number for the Broadband Serviceable Fabric Location.
block_geoid	String (15)	100030163091005	15-digit U.S. Census Bureau FIPS code for the census block in which the Broadband Serviceable Location is located.
h3_res8_id	String (15)	882aac3217ffff	15-character hexadecimal index for the parent H3 resolution-8 hexagonal cell of the resolution9 hexagonal cell in which the Broadband Serviceable Location falls. Because resolution-9 cells are not coextensive with their resolution-8 parents, a location may fall outside the parent resolution-8 cell.

Field Name	Data Type	Example	Description
wired_dl25_ul3_r	Enumerated String	U	<p>Flag indicating whether the location is covered or uncovered with residential service using wired technologies (i.e., Copper, Cable, or Fiber to the Premises) with speeds of at least 25 / 3 Mbps.</p> <p>- Value is one of the following codes:</p> <p><i>U</i> – Uncovered <i>C</i> – Covered</p>
wired_dl100_ul20_r	Enumerated String	U	<p>Flag indicating whether the location is covered or uncovered with residential service using wired technologies (i.e., Copper, Cable, or Fiber to the Premises) with speeds of at least 100 / 20 Mbps.</p> <p>- Value is one of the following codes:</p> <p><i>U</i> – Uncovered <i>C</i> – Covered</p>
terrestrial_dl_25_ul3_r	Enumerated String	U	<p>Flag indicating whether the location is covered or uncovered with residential service using terrestrial technologies (i.e., Copper, Cable, Fiber to the Premises, Unlicensed Fixed Wireless, Licensed Fixed Wireless, or Licensed-by-Rule Fixed Wireless) with speeds of at least 25 / 3 Mbps.</p> <p>- Value is one of the following codes:</p> <p><i>U</i> – Uncovered <i>C</i> – Covered</p>
terrestrial_dl100_ul20_r	Enumerated String	U	<p>Flag indicating whether the location is covered or uncovered with residential service using terrestrial technologies (i.e., Copper, Cable, Fiber to the Premises, Unlicensed Fixed Wireless, Licensed Fixed Wireless, or Licensed-by-Rule Fixed Wireless) with speeds of at least 100 / 20 Mbps.</p> <p>- Value is one of the following codes:</p> <p><i>U</i> – Uncovered <i>C</i> – Covered</p>

Field Name	Data Type	Example	Description
wiredlfw_dl25_ul3_r	Enumerated String	U	<p>Flag indicating whether the location is covered or uncovered with residential service using wired or licensed fixed wireless technologies (i.e., Copper, Cable, Fiber to the Premises, Licensed Fixed Wireless, or Licensed-by-Rule Fixed Wireless) with speeds of at least 25 / 3 Mbps.</p> <p>- Value is one of the following codes:</p> <p><i>U</i> – Uncovered <i>C</i> – Covered</p>
wiredlfw_dl100_ul20_r	Enumerated String	U	<p>Flag indicating whether the location is covered or uncovered with residential service using wired or licensed fixed wireless technologies (i.e., Copper, Cable, Fiber to the Premises, Licensed Fixed Wireless, or Licensed-by-Rule Fixed Wireless) with speeds of at least 100 / 20 Mbps.</p> <p>- Value is one of the following codes:</p> <p><i>U</i> – Uncovered <i>C</i> – Covered</p>
wired_dl25_ul3_b	Enumerated String	U	<p>Flag indicating whether the location is covered or uncovered with business service using wired technologies (i.e., Copper, Cable, or Fiber to the Premises) with speeds of at least 25 / 3 Mbps.</p> <p>- Value is one of the following codes:</p> <p><i>U</i> – Uncovered <i>C</i> – Covered</p>
wired_dl100_ul20_b	Enumerated String	U	<p>Flag indicating whether the location is covered or uncovered with business service using wired technologies (i.e., Copper, Cable, or Fiber to the Premises) with speeds of at least 100 / 20 Mbps.</p> <p>- Value is one of the following codes:</p> <p><i>U</i> – Uncovered <i>C</i> – Covered</p>

Field Name	Data Type	Example	Description
terrestrial_dl_25_ul3_b	Enumerated String	U	<p>Flag indicating whether the location is covered or uncovered with business service using terrestrial technologies (i.e., Copper, Cable, Fiber to the Premises, Unlicensed Fixed Wireless, Licensed Fixed Wireless, or Licensed-by-Rule Fixed Wireless) with speeds of at least 25 / 3 Mbps.</p> <p>- Value is one of the following codes:</p> <p><i>U</i> – Uncovered <i>C</i> – Covered</p>
terrestrial_dl100_ul20_b	Enumerated String	U	<p>Flag indicating whether the location is covered or uncovered with business service using terrestrial technologies (i.e., Copper, Cable, Fiber to the Premises, Unlicensed Fixed Wireless, Licensed Fixed Wireless, or Licensed-by-Rule Fixed Wireless) with speeds of at least 100 / 20 Mbps.</p> <p>- Value is one of the following codes:</p> <p><i>U</i> – Uncovered <i>C</i> – Covered</p>
wiredlfw_dl25_ul3_b	Enumerated String	U	<p>Flag indicating whether the location is covered or uncovered with business service using wired or licensed fixed wireless technologies (i.e., Copper, Cable, Fiber to the Premises, Licensed Fixed Wireless, or Licensed-by-Rule Fixed Wireless) with speeds of at least 25 / 3 Mbps.</p> <p>- Value is one of the following codes:</p> <p><i>U</i> – Uncovered <i>C</i> – Covered</p>
wiredlfw_dl100_ul20_b	Enumerated String	U	<p>Flag indicating whether the location is covered or uncovered with business service using wired or licensed fixed wireless technologies (i.e., Copper, Cable, Fiber to the Premises, Licensed Fixed Wireless, or Licensed-by-Rule Fixed Wireless) with speeds of at least 100 / 20 Mbps.</p> <p>- Value is one of the following codes:</p> <p><i>U</i> – Uncovered <i>C</i> – Covered</p>