

## MBI DATASETS:

### UnservedPremises\_40EligibleTowns

### ServedPremises\_40EligibleTowns

As of February 2017, the locations in the *UnservedPremises\_40EligibleTowns* dataset do not have access to broadband service, such as residential cable or fiber, and the locations in the *ServedPremises\_40EligibleTowns* dataset have access to the MassBroadband123 fiber network. This is the only difference between the two premises datasets, which is indicated by the Y or N flag in the *Served* attribute field.

The address point locations represent premises (e.g., households and businesses) believed to be viable Internet/broadband customers in 40 towns in central and western MA that are eligible for last mile grants to private providers. The points were created using several publicly available data sources and manual data review and editing by MBI and its contractors. The primary data sources were MassGIS level 3 parcel data and related assessor tables and MassGIS roofprints derived from orthophotography. The majority of the address points were created from the roofprint locations. Address points for parcels believed to contain premises that didn't have roofprints were created in the center of the parcel. Some of the points have been moved to the approximate building location based on orthophotography available from MassGIS, Google Maps, and Bing Maps. Edits to address point locations, use code, and unit information was also reviewed and marked up by the towns and editing accordingly by MBI.

Each address point has unique attribute information associated with it, as described below.

- **StreetNum:** Street Number assigned by MBI from assessor record, town feedback or another source. This is intended to supersede the assessor site address.
- **StreetName:** Street Name assigned by MBI from assessor record, MassDOT roads, town feedback or another source. This is intended to supersede the assessor site address.
- **Town:** Town name assigned by MBI from MassGIS town boundaries.
- **Units:** Number of units in the building, assigned by MBI from assessor record, town feedback or another source. The default is 1. This is intended to supersede the assessor units value.
- **LocUse:** Location use code assigned by MBI from assessor record, town feedback or another source. These are codes to help identify the building use, as defined below.
  - R-S = Residential Single-unit
  - R-M = Residential Multi-unit
  - C-S = Commercial Single-unit
  - C-M = Commercial Multi-unit
  - O-S = Other Single-unit
  - O-M = Other Multi-unit
  - M-M = Mixed Use Multi-unit
- **Served:** Yes/No flag to indicate if location has access to broadband service through the MBI's MassBroadband 123 fiber-optic network.
- **Lat:** Latitude coordinate calculated by GIS software.
- **Lon:** Longitude coordinate calculated by GIS software.
- **ParcelLocID:** Location ID of parcel record from MassGIS parcel dataset.
- **A\_FYAssessed:** Fiscal Year of assessment of parcel from MassGIS 2014 assessor record table.

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- **A\_GnrIDesc:** General description of parcel from MassGIS 2014 assessor record table.
  - **A\_UseDesc:** More detailed use description of parcel from MassGIS 2014 assessor record table.
  - **A\_SiteAddr:** Address of parcel from MassGIS 2014 assessor record table.
  - **A\_Owner:** Owner of parcel from MassGIS 2014 assessor record table.
  - **A\_YearBuilt:** Year building(s) built on parcel from MassGIS 2014 assessor record table.
  - **A\_BldgValue:** Value of building(s) on parcel from MassGIS 2014 assessor record table.
  - **A\_BldgArea:** Gross area of building(s) on parcel from MassGIS 2014 assessor record table.
  - **A\_BldgStyle:** Style of building(s) on parcel from MassGIS 2014 assessor record table.
  - **A\_Units:** Number of units in building(s) on parcel from MassGIS 2014 assessor record table.
  - **A\_Stories:** Number of stories in building(s) on parcel from MassGIS 2014 assessor record table.
- A\_RoomCnt:** Number of rooms in building(s) on parcel from MassGIS 2014 assessor record table.

### **MassBroadband123\_Fiber**

The polylines in this dataset represent the approximate locations of the cable in the MassBroadband123 open-access fiber-optic network. The network infrastructure is owned or leased by the Massachusetts Broadband Institute (MBI), a division of the Massachusetts Technology Collaborative, on behalf of the Commonwealth of Massachusetts. The network is operated by Axia NGNetworks USA (Axia). Any network extensions that may have been built by MBI, Axia, or other broadband service providers are not included in this dataset. This dataset was last updated July 1, 2015, but represents the network as of the completion of construction in early 2014.

The network is broken down into line segments that contain unique attribute information, as described below.

- **SegName** = A unique alphanumeric Segment Name assigned by the MBI.
- **Town** = Name of the town the segment falls within.
- **StreetName** = Name of the street the segment follows.
- **LenFt** = Length of the segment in feet.
- **LenMiles** = Length of the segment in miles.
- **RteFacility** = The type of facility or installation method, such as Aerial, Underground, or IRU (i.e. leased).
- **StrndCnt** = An estimate of the number of strands of fiber installed: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 24, 26, 32, 48, 72, 144, 288, 576.
- **SegUse** = An indicator of whether segment is considered part of the fiber backbone (B) or a lateral (L). Backbone must have a strand count of 72 or higher. Laterals may have a strand count from 2 to 144.
- **StartLat** = Approximate latitude of the start of the line segment.
- **StartLon** = Approximate longitude of the start of the line segment.
- **EndLat** = Approximate latitude of the end of the line segment.
- **EndLon** = Approximate longitude of the end of the line segment.

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### **MassBroadband123\_POI**

The points in this dataset represent the approximate locations Points of Interconnection (POI) to the MassBroadband123 open-access fiber-optic network. The network infrastructure is owned or leased by the Massachusetts Broadband Institute (MBI), a division of the Massachusetts Technology Collaborative, on behalf of the Commonwealth of Massachusetts. The network is operated by Axia NGNetworks USA (Axia). This dataset was last updated July 1, 2015, but represents the network as of the completion of construction in early 2014.

Each POI has unique attribute information associated with it, as described below.

- POI\_ID = A unique numeric ID assigned by the MBI.
- LocID = A numeric ID assigned by the MBI that may be shared by other network related facilities, such as connected Community Anchor Institutions (CAI).
- FacilType = Indicator of whether the facility is a standard Point of Interconnection (POI) or an internet Point of Presence (iPOP).
- Town = Name of the town the POI facility falls within.
- Lat = Approximate latitude of the POI facility.
- Lon = Approximate longitude of the POI facility.

### **DCR\_FireTowers\_MassBroadband123**

The points in this dataset represent the approximate locations of fire towers owned and maintained by the MA Department of Conservation and Recreation (DCR). This data was acquired from DCR and has been modified to include only those fire towers within the MassBroadband123 service area. The attributes include town and landmark names as well as coordinate and elevation information.

### **Datasets from MassGIS**

The following datasets are derived from freely available MassGIS data. A full list of the data available for download is here: <http://www.mass.gov/anf/research-and-tech/it-serv-and-support/application-serv/office-of-geographic-information-massgis/datalayers/layerlist.html>.

- **ParcelBoundaries\_40EligibleTowns:** Derived from [Level 3 Assessors' Parcels](#) and the associated Assessor Data Table. This dataset contains only parcel data from the 40 towns eligible for MBI last mile private provider grants and contains a subset of the MassGIS attribute data for each.
- **TownBoundaries\_40EligibleTowns:** Derived from [Community Boundaries from Survey Points](#). This dataset contains only the boundaries for the 40 towns eligible for MBI last mile private provider grants. It contains a subset of the MassGIS attribute data for each, including town and county identifiers and U.S. Census 2010 population.
- **TownBoundaries\_OtherMassBroadband123Towns:** Derived from the same [Community Boundaries from Survey Points](#) dataset. This dataset contains only the boundaries for the towns in the MassBroadband123 service area that are not eligible for MBI last mile private provider grants. It contains a subset of the MassGIS attribute data for each, including town and county identifiers and U.S. Census 2010 population.

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- **TownBoundaries\_AllMB123andAdjacent:** Derived from the same [Community Boundaries from Survey Points](#) dataset. This dataset contains only the boundaries for all towns in and adjacent to the MassBroadband123 service area, which includes all of the towns in the *TownBoundaries\_40EligibleTowns* and *TownBoundaries\_OtherMassBroadband123Towns* datasets as well as additional adjacent towns. It contains a subset of the MassGIS attribute data for each, including town and county identifiers and U.S. Census 2010 population.
- **NamedRoads\_Classess1234\_MassBroadband123:** Derived from [MassDOT Roads](#), the official state-maintained street transportation dataset, which is maintained by MassDOT with some additional attributes added by MassGIS. This dataset contains only named roads identified as class 1 (Limited Access Highway), 2 (Multi-lane Highway, not limited access), 3 (Other numbered route), or 4 (Major road, arterials and connectors).
- **NamedRoads\_Classess56\_MassBroadband123:** Derived from [MassDOT Roads](#), the official state-maintained street transportation dataset, which is maintained by MassDOT with some additional attributes added by MassGIS. This dataset contains only named roads identified as class 5 (Minor street or roads, with road inventory information) or 6 (minor street or road, with minimal road inventory information).
- **UnnamedRoads\_\_MassBroadband123:** Derived from [MassDOT Roads](#), the official state-maintained street transportation dataset, which is maintained by MassDOT with some additional attributes added by MassGIS. This dataset contains only unnamed roads.
- **ClipBoundary:** This area is a single polygon based on merged town boundaries, which encompasses all towns in central and western MA that make up the MassBroadband123 service area or are adjacent to it. This dataset is used to clip other statewide datasets to this area of interest.