FiberLocator API Cheat Sheet



| | | | A CCMI BUSINESS |
|--|--------------|--|--|
| • | • | retrieve JSON data about carriers and networks, map images depicting those objects for use in web mapping platforms, or | |
| reports as JSON, GeoJSON, webm | ap tiles (| | |
| BASICS | | https://app.fiberlocator.com/doc/api.html#authentication-2 | |
| To access the FiberLocator API, yo | ou need a | a FiberLocator account. Contact us at https://www.fiberlocator.com/contact/ | |
| base endpoint | | | https://app.fiberlocator.com/rest |
| access using cookies | POST | Login to FiberLocator and add the cookies file to your request. | /login |
| access using a token | | Retrieve your token to use embeded in the requested endpoint https://app.fiberlocator.com/rest/{token}. | /token |
| layer names and attributes | GET | Retrieve a "table of contents" listing of available map/data layers available to you along with layer attributes. | /layers/toc |
| CARRIERS | | https://app.fiberlocator.com/doc/api.html#fiberlocator-carriers | |
| Retrieve data about a specific car | rier or lis | t of carriers in a bounding box returned as JSON. | |
| | | | |
| carrier names and IDs | GET | List all carrier names and IDs. IDs can then be used to retrieve information about a single carrier. | /carriers |
| single carrier lookup by ID | GET | Retrieve information about a single carrier. | /carrier/{id} |
| bbox lookup of carriers and lit | | | |
| building count | GET | Get the names of carriers and the number of lit buildings that are in view. | /carriers/inview/{bbox} |
| radius lookup of carriers and lit | | | |
| building count | GET | Retrieve carriers and number of lit buildings within distance of a given location. | /carriers/inview/{lon}/{lat}/{radius} |
| LAYERS | | https://app.fiberlocator.com/doc/api.html#fiberlocator-finding-data | The second secon |
| | ny servici | es provided by FiberLocator. Each fiber network and list of carrier's lit buildings are contained in separate layers. Layers | |
| | • | s (notably, buildings, metro, and longhaul) can be used in some APIs as a hint to include all layers assigned to that branch. | |
| | | equest a composite tile containing all the carriers' buildings or networks of a specific branch. Data returned as a JSON | |
| tins reacure can be asea, for mista | 11100, 10 11 | line data: longhaul, metro | |
| composite layer names | | point data: central_offices, data_centers_colocated, data_centers_enterprise, data_centers_hyperscale, internet_excha | ungos lit bldgs sub landings |
| | GET | Quick listing of all available machine-readable layer names. | |
| layer names | GET | Quick institing of all available friactime-readable tayer frames. | /layers |
| | | Paris and Paris of any light have an edition in the state of the state | |
| Income with the co | 057 | Retrieve a listing of available layers and their bounding boxes. The result is a FeatureCollection that could be used in | |
| layers with bbox | GET | other map applications. | /layers/extents |
| Laurence de la la constante de | 057 | Determine the least the feet was the control of the | 11 12 10 1 2/0 2 |
| layers within a bbox | GET | Return the layers whose features (lines or points) can be found within the requested bounds. | /layers/inview/{bbox}/{layers} |
| layer metadata | GET | Get known information about a single layer | /layers/metadata/{layer_name} |
| LOCATIONS | _ | https://app.fiberlocator.com/doc/api.html#fiberlocator-querying-locations | |
| Retrieve carrier and lit building da | ata for a s | specific address or longitude/latitude returned as JSON. | |
| | | | |
| | | | |
| | | Retrieve network layer and lit building info within a radius of a given longitude/latitude coordinate or address. The | /info/near/{address}/{radius} |
| layer info by location | GET | address should contain as much information as known (street, city, postal code) in a single string. | /info/near/{lon}/{lat}/{radius} |
| | | | /info/nearest/providers/{address} |
| nearest providers | GET | Retrieve a list of providers nearest to the given location with default radius of 5 km. | /info/nearest/providers/{lon}/{lat} |
| | | | |
| distance to nearest network | GET | A simplified endpoint that returns just the distance to the nearest network. Max radius of 10,000 meters. | /info/nearest/{lon}/{lat}/{radius} |
| a-z location search | GET | Retrieve provider data for a starting (A) location and one or more ending (Z) locations. Limit of 5 locations. | /info/a-z |
| | | Search for an address and return the 5 nearest fiber network carriers to it, and include any carriers already providing | |
| | | service at the given address. If the map parameter is not included or set true, this endpoint also returns two URLs. The | /info/distance/{address} |
| | | first is to retrieve a static PNG map of the location including any fiber networks in the vicinity, and the second is for a | /info/map/{maptoken} |
| fiber distance report | GET | static PNG legend image. | /info/legend/{maptoken} |
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| MAP TILES | | https://app.fiberlocator.com/doc/api.html#fiberlocator-maps-and-tiles | | | | |
|---|------------|--|--|--|--|--|
| - | | | | | | |
| FiberLocator includes a REST Web Map Tile Service (WMTS) for retrieving images containing over a thousand separate layers of network and building data based on | | | | | | |
| the Open Geospatial Consortium specification. | | | | | | |
| | | The WMTS specification offers an initial request in the form of a Capabilities document, which defines what our server is | | | | |
| | | able to return to you and can inform client applications such as QGIS or ArcGIS, so that you can import network layer | | | | |
| wmts capabilities | GET | images directly to a desktop GIS. Data returned as XML. | /maps/wmts/1.0.0/WMTSCapabilities.xml | | | |
| | | L | | | | |
| | 057 | Retrieve a single 256 x 256 pixel PNG image, as part of a collection to form a map. | | | | |
| wmts tile service | GET | Data returned as .png file. | /maps/wmts/{layer_name}/webmercator/{z}/{x}/{y}.png | | | |
| GEOSPATIAL FEATURES | | https://app.fiberlocator.com/doc/api.html#fiberlocator-feature-data | T | | | |
| | | ribe real world places or objects, such as a network line or a lit building. These endpoints return GeoJSON objects that may | | | | |
| be utilized in ArcGIS or QGIS or oth | her GIS s | oftware to allow for various spatial analyses. | | | | |
| | | Retrieve a GeoJSON FeatureCollection around a location. Radius is limited to 2000 meters. Individual layers to include | /features/collection/{lon}/{lat}/{radius}/{layer_name}.geojson | | | |
| geojson radius | GET | are limited to 5. | /features/collection/{address}/{radius}/{layer_name}.geojson | | | |
| geojson radias | GLI | are inities to 3. | /reactives/concection/ (address)/ (radius)/ (layer_name).geo)son | | | |
| | | | /features/collection/filtered.geojson | | | |
| | | | /features/collection/filtered.geojson | | | |
| | | Citizen and include an address of language (latitude along with a godine (an above). Very many include | • | | | |
| | | Filters can include an address or longitude/latitude along with a radius (as above). You may include | query options: | | | |
| | | 'find_census_block=true' instead of a radius value and the API will determine the Census Block Group FIPS code of your | string (address, census_block_id, carrier, layers), | | | |
| | | requested location. If you know the Block Group you're interested in you may use that ('census_block_id') in place of | integer(radius), float(longitude, latitude), | | | |
| geojson filtered | GET | address or lon/lat. If a Block Group is used, any 'radius' value will be ignored. | boolean(find_census_block) | | | |
| PRINT OUTPUT https://app.fiberlocator.com/doc/api.html#fiberlocator-printing | | | | | | |
| Create a static PNG image or PDF | | nt suitable for printing, with many options. | | | | |
| | | Pass in either a longitude, latitude, and radius values, or a bounding box array in order to define the edges of your map. | | | | |
| | | FiberLocator uses a set of predefined zoom scales, and may expand your map's boundaries slightly to ensure your | | | | |
| printing | GET | requested location is entirely in view. | /print/{format} | | | |
| PREFERENCES | | https://app.fiberlocator.com/doc/api.html#fiberlocator-preferences | | | | |
| | | | | | | |
| Units, set as 'ft' (feet) or 'm' (mete | rs), defir | nes the default measure used for both input and output in other endpoints. By default, units is set to 'm'. | | | | |
| get units | GET | Retrieve the default unit of measure currently set. | /units | | | |
| set units | POST | Set default measure, feet or meters, used for input and output in other endpoints. | /units/{units} | | | |
| HELPFUL LINKS | | | | | | |
| FiberLocator API docs | | https://app.fiberlocator.com/doc/api.html | | | | |
| OpenAPI specification | | https://swagger.io/specification/ | | | | |
| Open Geospatial Consortium | | https://www.ogc.org/ | | | | |
| layers definition | | https://doc.arcgis.com/en/arcgis-online/reference/layers.htm | | | | |
| WMTS specification | | WMTS - Operations — OGC e-Learning 2.0.0 documentation (opengeospatial.github.io) | | | | |
| Calculating x, y coordinates for | | https://wiki.openstreetmap.org/wiki/Slippy_map_tilenames | | | | |
| FCC API for FIPS codes | | https://geo.fcc.gov/api/census/#!/block/get_block_find | | | | |
| curl | | https://everything.curl.dev/ | | | | |

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