

Georgia 811 offers its members the ability to upload a geojson of their service area. The file must meet the following criteria:

- The file must be of the **GEOJSON** format (not shapefile).
- The file must contain **ONLY** geometries that are either a **POLYGON** or **MULTIPOLYGON**.
- The file must not contain any **POINT** or **LINestring** features.
- The file must not contain any **GEOMETRY COLLECTION** features.
- The file must have coordinates in the **EPSG:4326** projection. (This is sometimes called **LL84** using **WGS84**).
- The file must be wholly contained within a buffer of 200 feet around of the state of Georgia.
- The file must be less than **12MB** in size.
- The file must contain less than **300,000** coordinates and contain at least four coordinates.
- The geometry must be **OGC Valid** (not just **ESRI Valid**).
- The geometry must be **OGC Simple**.
- The geometry must contain **No Self-Intersections**.
- The geometry must contain **No Holes** outside its shell.
- The geometry must contain **No Nested Holes**.
- The geometry must contain **No Disconnected Interiors**.
- The geometry must contain **No Ring Self Intersections**.
- The geometry must contain **No Nested Shells**.
- The geometry must contain **No Duplicated Rings**.
- The geometry must contain only **Valid Coordinates**.
- The geometry must have **All of its Rings Closed**.
- The geometry must not be **Empty**.
- Please **union** or **dissolve** your geometries into valid ones for as few as possible geometries.
- Please **remove insignificant holes** in your geometries.
- Please **keep the point count very low** on the endcaps of your buffered geometries.

**Cleaning your data** (Your files should be considered "clean" before uploading)

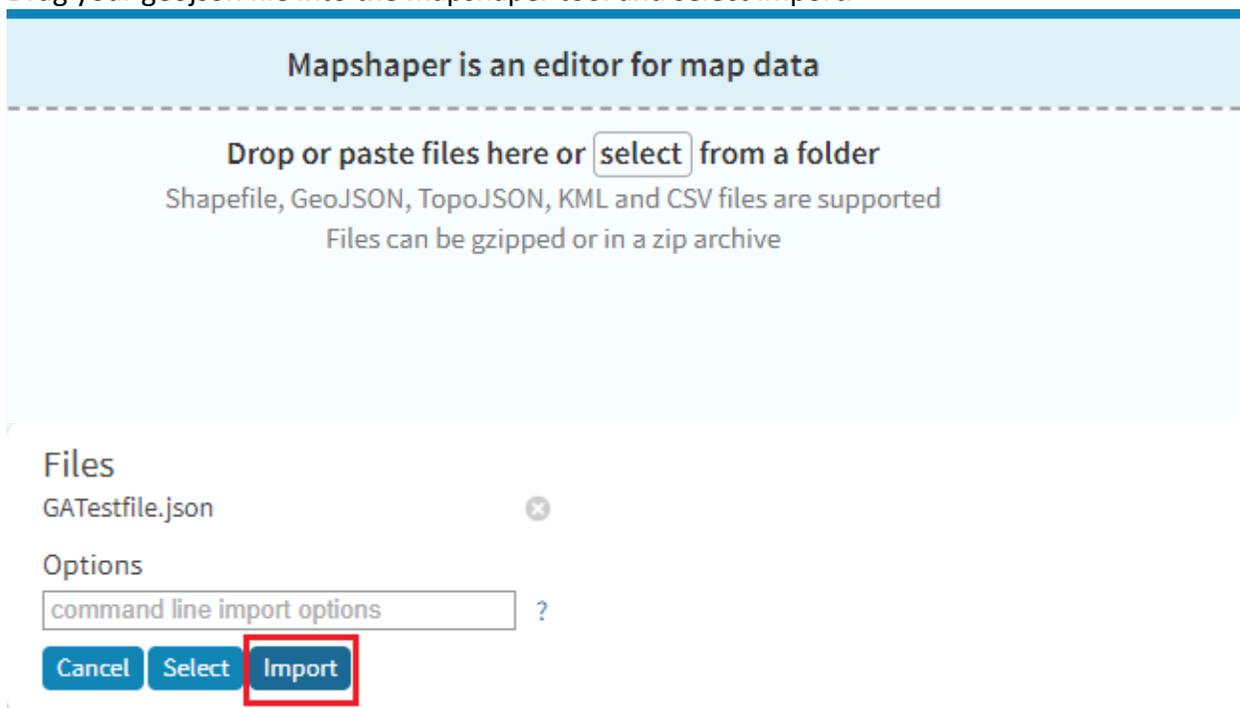
- Your data should not contain any overlaps or self-intersections and should be one big valid multipolygon.
- You can clean your data in many GIS tools like **QGIS**, **FME** and **Mapshaper**.

**Using Mapshaper to clean your data** (This technique won't fix 100% of data issues especially if your data has lots of geometry errors).

1. Select the **Mapshaper Link** from the options on the left side of the service area editor page.

### 🔗 Mapshaper Link

2. Drag your geojson file into the mapshaper tool and select Import.

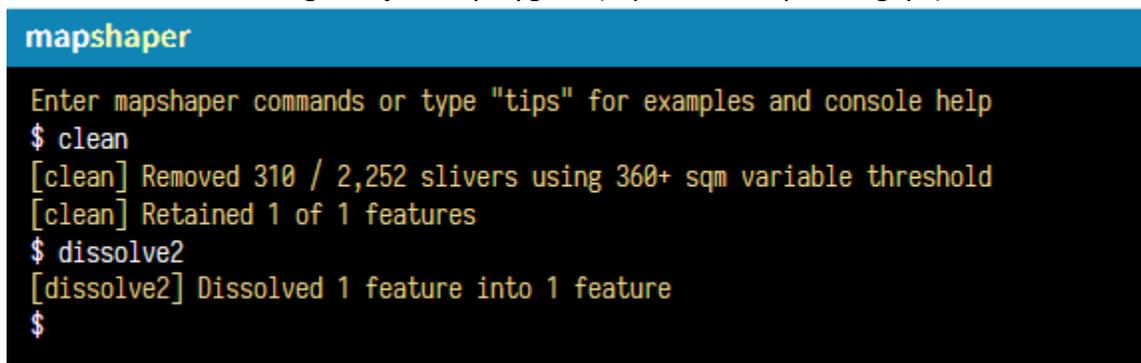


3. Select console from the options in the upper right corner of screen.



4. Run the following commands. After each command is typed, hit enter. Type the commands as listed here and in this order.

**clean** - Fixes geometry issues, such as polygon overlaps and gaps  
**dissolve2** - Merges adjacent polygons (repairs overlaps and gaps)



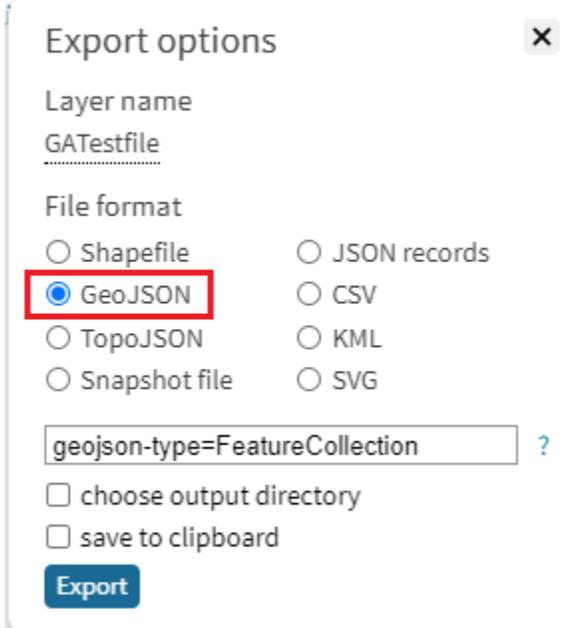
5. Make sure you check the data for validity between each command. It is your responsibility to make sure your data is correct. Some of these commands remove insignificant holes, etc. which can help make your geometry more efficient.

### 3 Service Area Map File Upload Criteria

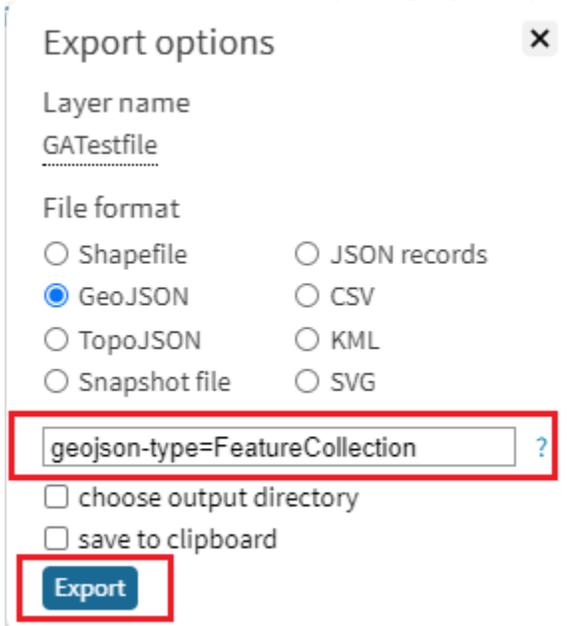
6. After entering each command above, select Export from the options in the upper right corner of screen.



7. Select the GeoJSON option if not already selected.



8. Enter the following information into the command line options field, typed exactly as it is here and then select Export: geojson-type=FeatureCollection



**Additional (Mapshaper) Information**

Reprojecting a shapefile from its projection using mapshaper.

Use the console command “proj” as follows:

**proj init=<Shapefile Base Name> crs=EPSG:4326**

where <Shapefile Base Name> is the base name (no extension) of your shapefile

ex: MYSA.shp, MYSA.prj, MYSA.dbf have been loaded in mapshaper use:

**proj init=MYSA crs=EPSG:4326**

**Note:** The file MUST include the ENTIRE service area. Files that are uploaded will REPLACE the current service area.

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If you have any questions or need help, please contact Customer Connections at [customerconnections@georgia811.com](mailto:customerconnections@georgia811.com) or 770-623-5786.