



SERVICE AREA MAP MANAGEMENT

Oklahoma One-Call System, Inc. dba **OKIE811**

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Helpful OKIE811 Links

[Introduction to Google Earth](#)

[Draw and Measure](#)

[OKIE811 Google Earth Webinar](#)

Intro

OKIE811 Service Area Editor / **SAE** is used to create, maintain, and edit a Service Area. This is an important part of OKIE811 membership. It is recommended that you review your service area(s) frequently to ensure the most up to date information is provided. This allows us to keep a record of area(s) in which you operate so we can accurately distribute locate tickets. For assistance, please contact our GIS Department at gis@okie811.org or (800) 522-6544 | x4008.

The OKIE811 Service Area Editor/SAE can be accessed here: gis.okie811.org • Most compatible internet browsers are Google Chrome, Firefox, and Microsoft Edge. • **Approved** changes made to your Service Area will be published M-F *by the close of business*.

- Need to **register** for the SAE? Send an email to gis@okie811.org to request registration.

Definitions

- **Service Area** – Area(s) in which you have facilities.
- **Published** – Areas that are in production which will generate a ticket for your company.
- **Current** – Areas that may NOT be in production – If you have not submitted an update, your Current and Published Service Areas should be the same. When you edit, you are editing a copy of the current service areas. Once you save and submit, the system will use the current service area to publish and begin generating tickets from that mapping. (The only time published and current should be the same)
- **Code** – Service Area Code(s) assigned to you by OKIE811 Member Services Department.
- **OGC** – Open Geospatial Consortium (OGC) is a standard among Open-Source GIS. The Service Area Editor is built around open-source software to allow it to be more adaptable and accessible.

Navigation Panel along the left side of the screen

- Home – Main page 
- Edit Service Area – Select this option to view and edit a Service Area Map. 

Acceptable Mapping Formats / Buffers

The Service Area Editor accepts GeoJSON, zipped SHP (all SHP components), KML, and JSON file types. OGC valid geometry is recommended. For the most part, the Service Area Editor can handle fixing geometry to make features OGC valid. If you experience issues uploading your features, you can clean your data through GIS tools such as QGIS, FME, and Mapshaper.

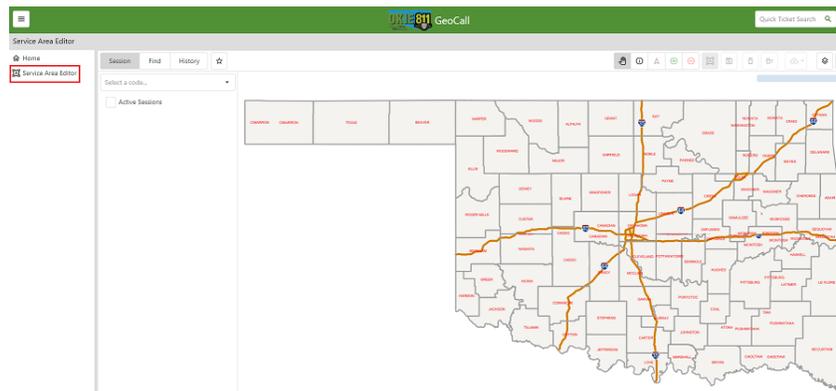
Buffers - A 500' buffer will be applied to unbuffered line or point features (*500ft from the centerline/total of 1000ft across*).

Example using Mapshaper - <https://mapshaper.org> (*This technique will not fix 100% of data issues especially if your data has lots of geometry errors*). Mapshaper can also be used to easily convert mapping file types.

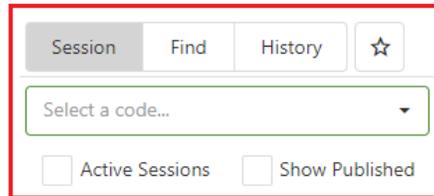
- Drag your file, import, view and open the console.
- Run the commands in the following order (*especially if you see a bunch of red intersections*)
 - "Clean" - Fix's geometry issues, such as polygon overlaps and gaps.
 - "Dissolve" - Merges features within a layer.
 - "Dissolve2" - Merges adjacent polygons (*repairs overlaps and gaps*)
- 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.
- Export and choose GeoJSON then enter the following in the command line options: **geojson-type=FeatureCollection**

View a Service Area Map

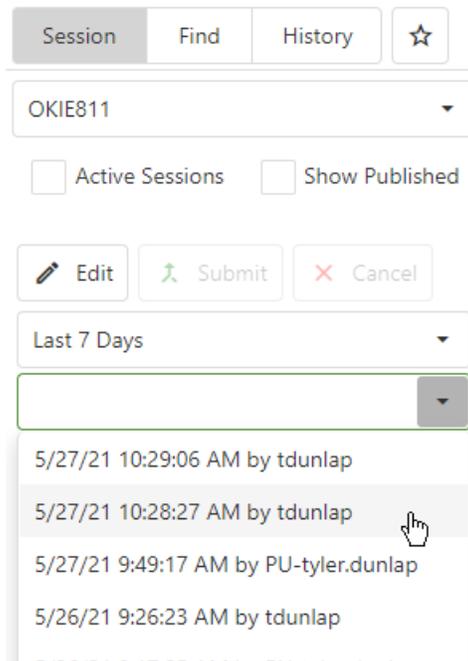
1. Select ->  **Edit Service Area**



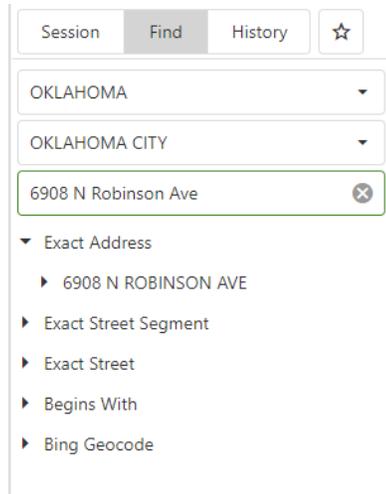
2. Select a **Code** from the drop down.



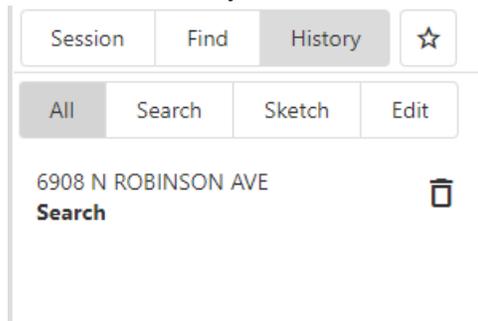
- **Session: Allows you to view, edit/submit updates, add notes, see previous updates, and see active sessions for codes. (Checking active session will only show codes that have an active session in the dropdown)**



- **Find: Allows you to do location searches. Ex: searching for an address.**

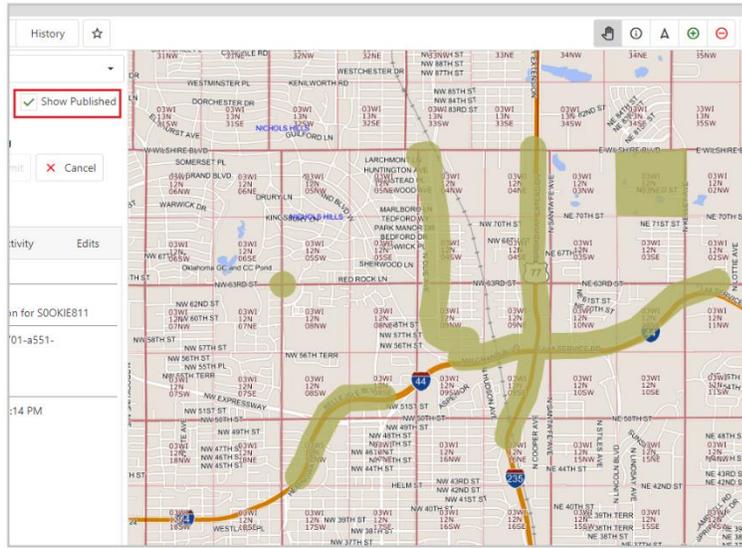


- **History: show items from your current session in the browser.**



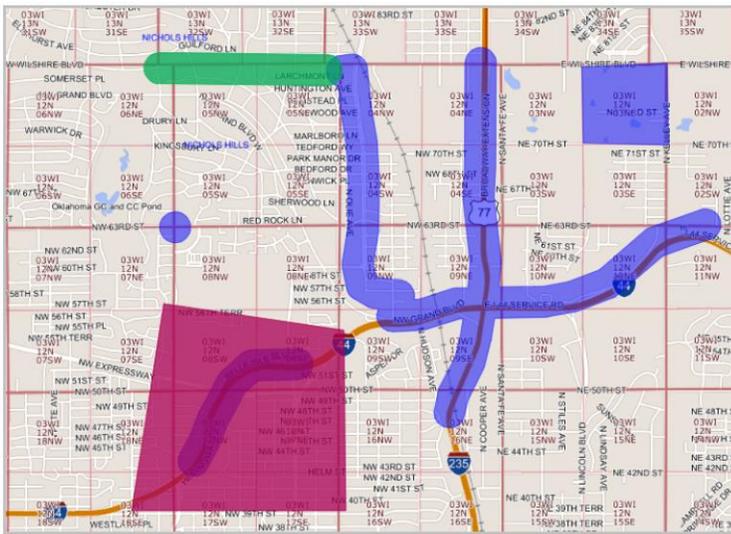
-  **Turns off the reference layers.**

3. The **Current Service Area Map** for the code will appear on the map in **blue**.

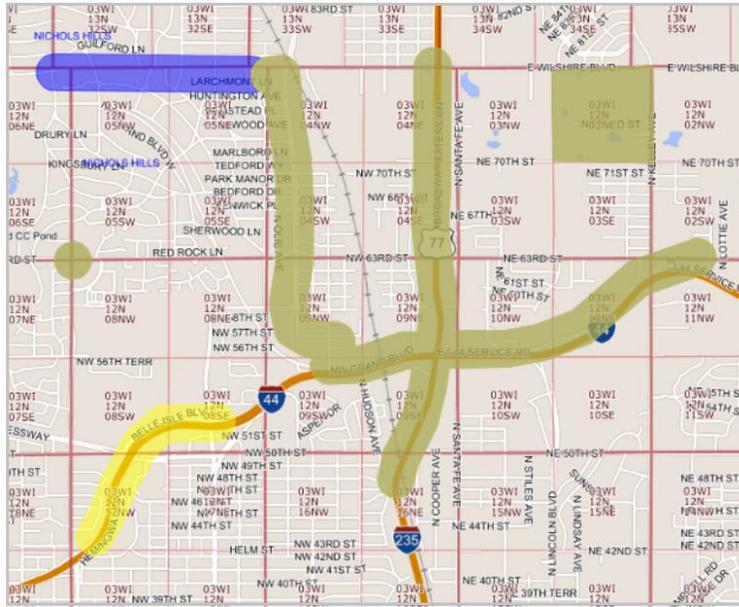


B. If you have made edits that have not been published – You can see the differences between current and published.

Example Editing: Adding a line in **green**. Removing area in **red** box.



Example after Save: Added area is **blue**, removed area is bright **yellow** to show difference from published copy.



C. If this is a new code – You will receive a pop-up that states “This code did not return an existing service area and is assumed to be a new code. If this is incorrect, please **do not continue** and contact the **GIS Department** at gis@okie811.org or 800-522-6544 |Ext. 4008.” Select **OK** on the pop-up to move on to the next step.

Service Area Editor Tools

- The scroll feature on your mouse will zoom you in and out of the map.
- When drawing a polygon or line, double click to end your drawing.

TOOL BAR – Located across the top right of the map.



- **Zoom Slider** – located in the upper right-hand corner of the map. To zoom in, select the circle and drag to the left. To zoom out, drag to the right.

Note: The scroll feature on your mouse will also zoom you in and out of the map.



Pan

- This tool allows you to move the map in any direction. Select and drag the map in the direction you want to move it.



Identify

- Identify map features.

Feature Select

- Select already drawn items that have not been saved.

Add Drawn Geometry

- This tool allows you to **add** new areas to your service area.

Remove Drawn Geometry

- This tool allows you to **remove** areas from your service area.

Draw Point Geometry

- Draw a point on the map.

Draw Line Geometry

- This tool allows you to draw a line geometry to add or remove. This tool is activated when the Add or Remove Drawn Geometry tool is selected.

Draw Polygon Geometry

- This tool allows you to draw a shape to add or remove. This tool is activated when the Add or Remove Drawn Geometry tool is selected.

Save Drawn Geometries

- This tool allows you to save drawn shapes. This tool is activated when the Add or Remove Drawn Geometry tool is selected, and a shape has been drawn.

Delete Select Geometry Tool

- Delete Selected Geometry

Clear Unsaved Geometry

- This tool allows you to clear all unsaved drawn shapes.

Upload Full Replacement

- This tool allows you to upload a file of your entire service area.

Load File Tool

- This will retain current service areas and merge the upload.



Download Service Area

- This tool allows you to download a GeoJson file of your service area.



Add Reference Points tool

- This tool allows add reference points using XY coordinates.



Zoom Tool

- Zoom to Point.



Map Layers

- This tool allows to you to view other map layers.

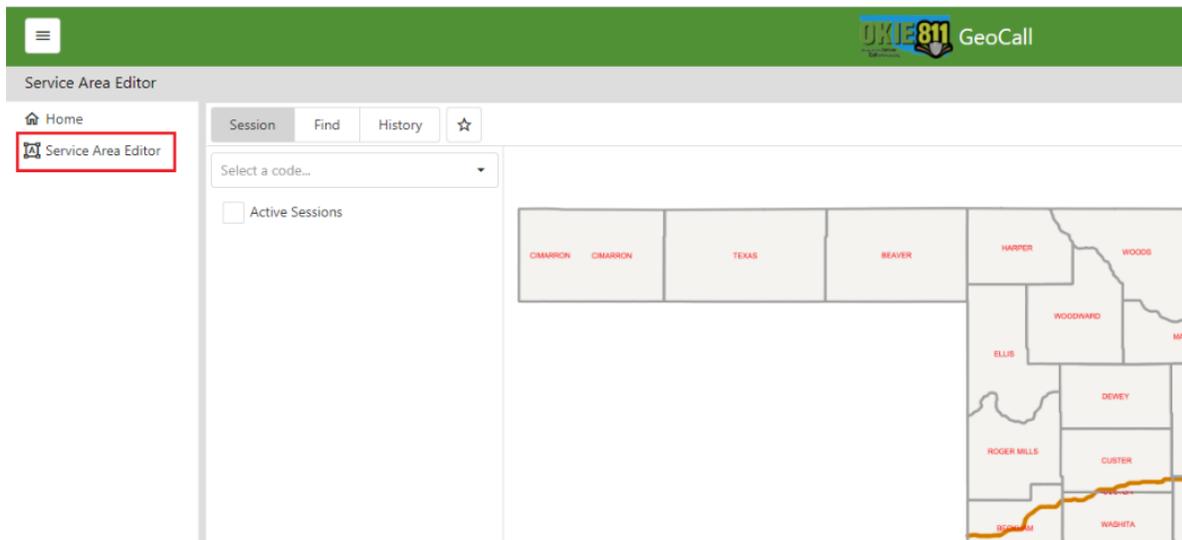


Refresh Map

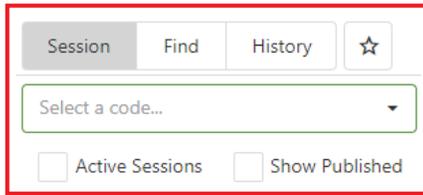
- This tool allows you to refresh the map.

Manually Edit a Service Area

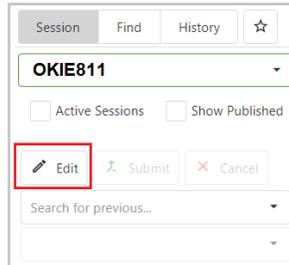
1. Select **Edit Service Area**.



2. Select a **Code** from the drop down.



3. Select **EDIT**.



4. Select the  **Add Drawn Geometry** tool to begin drawing a polygon for the area you would like to add.

5. Select the  **Remove Drawn Geometry** tool to begin drawing a polygon for the area you would like to remove.

6. Select the **drawing tool**: Point, Line, or Polygon. (tool defaults to polygon)

7. **Left Click** on the map to draw your features.

8. **Double left click** on your mouse to stop drawing. The drawn areas for additions will turn **green** while the outlined areas for removals will turn **red**.

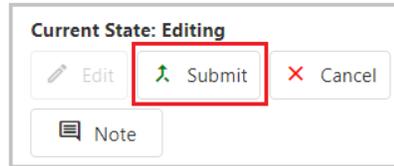


9. The area(s) can be cleared by selecting the  **Clear Unsaved Geometry** tool before the changes have been saved.

10. You can use the  **Select tool** to select drawing and delete them individually with the  **Delete Select Geometry** tool.

11. Select the  **Save Drawn Geometries** tool to save the area(s).

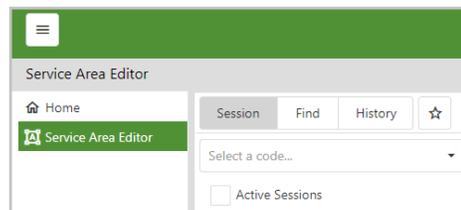
12. Once changes are complete and have been saved, select **Submit**. You will receive an email titled **Review Status**. Your update submission will be reviewed by our GIS Department.



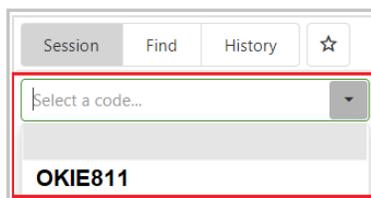
13. Once your updated submission has been approved by our GIS Department, you will receive an email titled **Publication**. The **approved** changes are published **M-TH** to production by the close of business. *You may login after you receive the publication notice to verify that the changes were published.*

Download Service Areas

1. Select **Edit Service Area**.



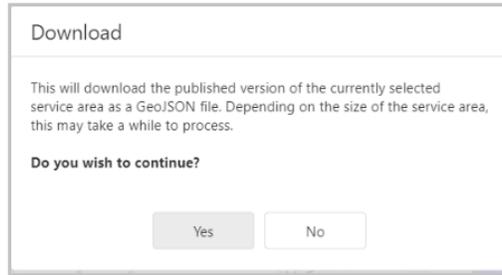
2. Select a **Code** from the drop down.



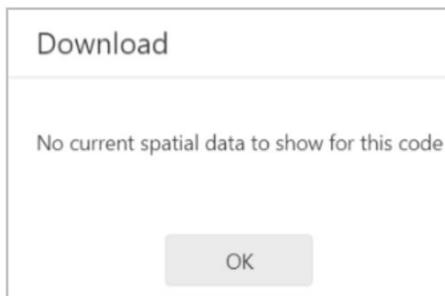
3. Select  **Download Service Areas**.

A. Select download published or download current service areas.

B. You will receive the following dialog box *(If you select No, you will not be able to complete the download)*.



C. If there is no Published spatial data for the selected code, you will receive the following dialog box:

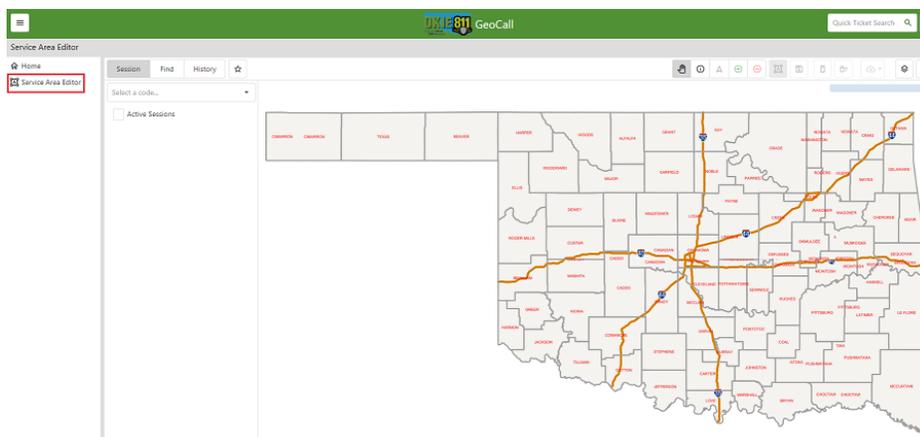


The file will be saved to your default download folder on your computer.

Upload a full replacement of Service Areas.

Accepted file types are GeoJson, zipped SHP, KMZ/KML, and JSON

1. Select **Edit Service Area**.



2. Select a **Code** from the drop down.

Session
Find
History
☆

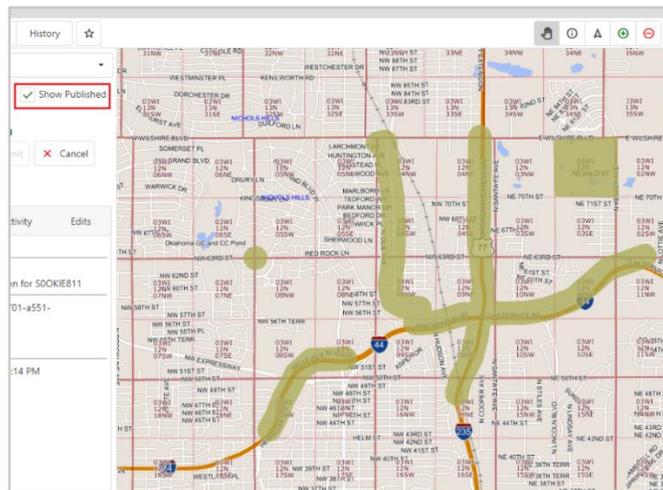
Select a code...

Active Sessions
 Show Published

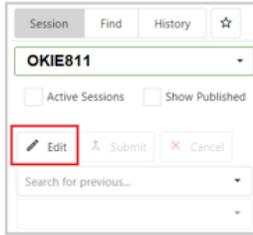
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- To View Published Service Areas –Select Show Published. Once this is selected, the published service area will appear on the map in **yellow**.

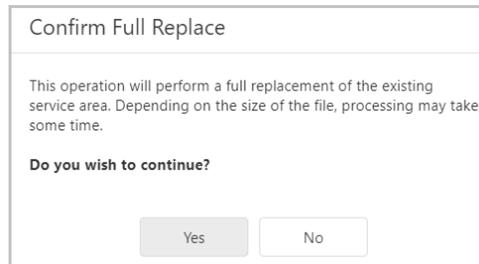


If this is a new code – You will receive a pop-up that states *“This code did not return an existing service area and is assumed to be a new code. If this is incorrect, please **do not continue** and contact the GIS Department at gis@okie811.org or 800-522-6544 | Ext. 4008.”* Select **OK** on the pop-up to move on to the next step.
Select Edit.

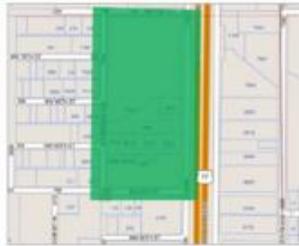


Select  **Upload Full Replacement**

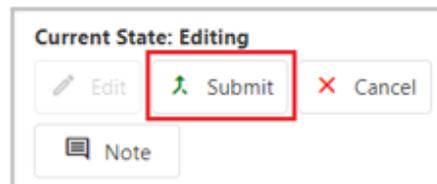
You will receive the following dialog box *(If you select No, you will not be able to complete the upload.*



4. Select the file that you wish to upload.
5. The file will upload, and the area will be displayed in **green**.



6. Select the  **Save Drawn Geometries** tool to save the area(s).
7. Once changes are complete and have been saved, select **Submit**.



Upload a file to add/merge with current Service Areas

1. Start to Edit a Service Area.
2. Select the  **Add Drawn Geometry tool.**
3. Select the  **Load file tool.** This will retain current service areas and merge the upload.
4. Select the  **Save Drawn Geometries tool** to save the area(s).
5. Click **Submit.**

