Geocoding Services in ArcGIS Desktop

*Questions about this document can be directed to njgin@oit.state.nj.us

The following NJOGIS geocoding services can be integrated into ArcGIS Desktop and used for a majority of geocoding workflows in ArcGIS:

Addr_NJ_cascade

https://geo.nj.gov/arcgis/rest/services/Tasks/Addr_NJ_cascade/GeocodeServer

Background

The Addr_NJ_cascade geocoding service is regularly updated with addresses from both the NJ Address Points & NJ Road Centerlines datasets. This service allows for general geocoding and reverse geocoding for street address and road intersection locations. The service can be used directly in ArcMap in lieu of a local copy of the address locator.

Note: If you require geocoding of greater than 1000 addresses, it is recommended that you download a local copy of the address locators instead of using the service. Locators can be downloaded directly from the NJGIN Address Information page.

Matching Hierarchy:

→Address Point Street Addresses
    v Road Range Street Addresses
        v Road Intersections

Supported ArcGIS Workflows:

- Geocoding Toolbar (Single)
- Geocode Addresses (Batch)

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Setting the Addr_NJ_cascade service as a Default locator in ArcMap:

* Default locators will always appear as an optional locator in ArcMap sessions

* This workflow assumes you are running Windows 7 or higher

* This change has to be applied on a user-by-user basis.

1) Open Windows Explorer and type **%appdata%** (with the percent signs) into the address bar at the top, and it will take you to your user profile directory.

2) From there, navigate to **ESRI\Desktop10.3\Locators** (If you are running a different 10.x version, use that folder name instead.

3) In that folder you will find **DefaultLocators.xml**.

4) Save a copy of this file as an original for backup.

5) Open the DefaultLocators.xml file in a text editor (ex NotePad or NotePad++)

6) Paste the following code in between the **<default_locators>** tags:

```
<locator_ref>
    <name>Tasks/Addr_NJ_cascade</name>
    <display_name>NJOGIS Addr_NJ_cascade</display_name>
    <workspace_properties>
     <factory_progid>esriGISClient.AGSServerConnectionFactory</factory_progid>
     <ags_connection_properties>
      <url>https://geo.nj.gov/arcgis/rest/services</url>
     </ags_connection_properties>
    </workspace_properties>
   </locator_ref>
```

7) Launch ArcMap and confirm that it works. There should now be an entry for the locator as "**NJOGIS Addr_NJ_cascade**" in the Find locations window and Geocoding toolbar.