



EXERCISE 3

Exporting and Printing from the Services

Introduction

You can export a limited amount of raster data from the Image Services and the RDW (but not map services).

Imagery services can make very useful backdrops for both large format prints as well as map series such as plots for field work. However, printing with image services is not as straightforward as if the imagery is stored on your local hard drives. This exercise will explain how it's done.

Objectives

- Export data from the Services
- Use the Services for a map backdrop and print it.

Prerequisites

- You should already have a connection to Image Services in ArcGIS Pro (Exercise 1)

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Part 1: Export Data from the Services

The Export Data tool in ArcGIS enables you to export a limited amount of raster data from the Services.

1. Add a raster layer from the Services to the ArcGIS Pro Table of Contents.

*Make sure the layer is a raster image service and **not** a vector map service. You can know what kind of service it is by the icon next to the layer name in Catalog or Add Data.*

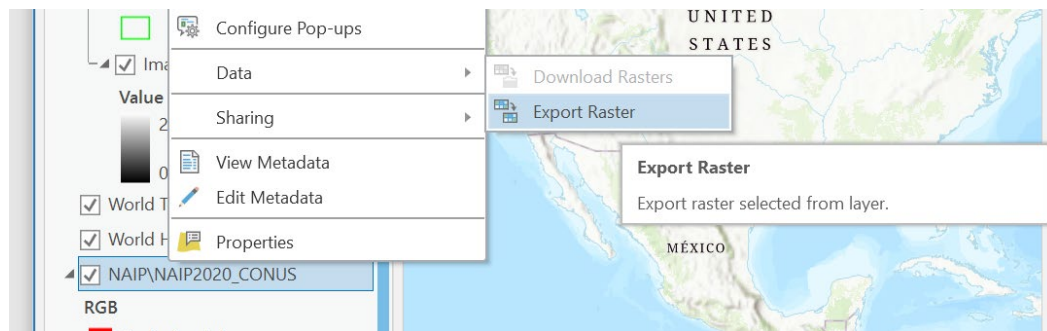


= Image Service

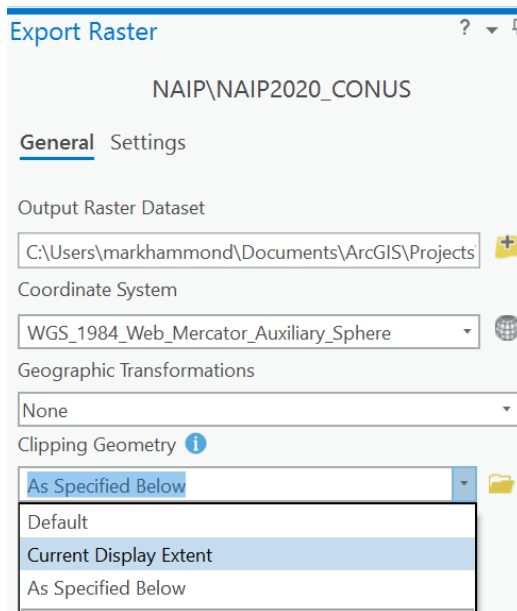


= Map Service

2. In the Table of Contents, right click the layer then click **Data** and **Export Raster** (see below).



3. In the Export Raster dialog, make sure the **Clipping Geometry** is set to **Current Display Extent**.

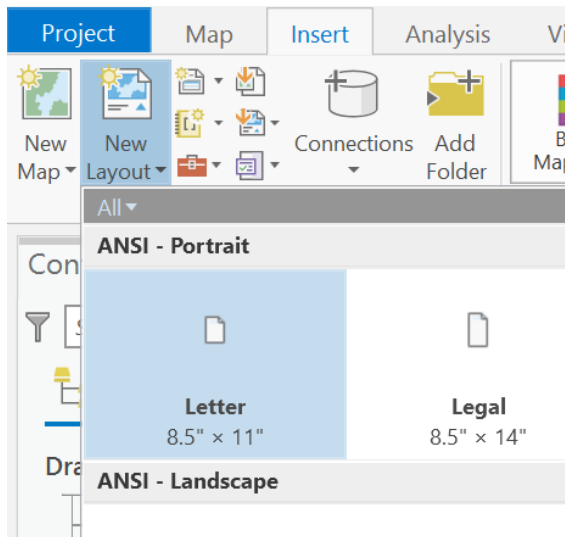


- i. Be aware that the Services have a data **size limitation** for exporting data. With the default cell size, only areas less than about **4000 acres (1:20,000 scale)** can be exported. You can export larger areas if you increase the cell size. If you need imagery covering more than about 4000 acres at its original resolution then you'll need to utilize one of the other geospatial data outlets shown in the tutorial.
4. Set any other parameters you need and then click **Export**.

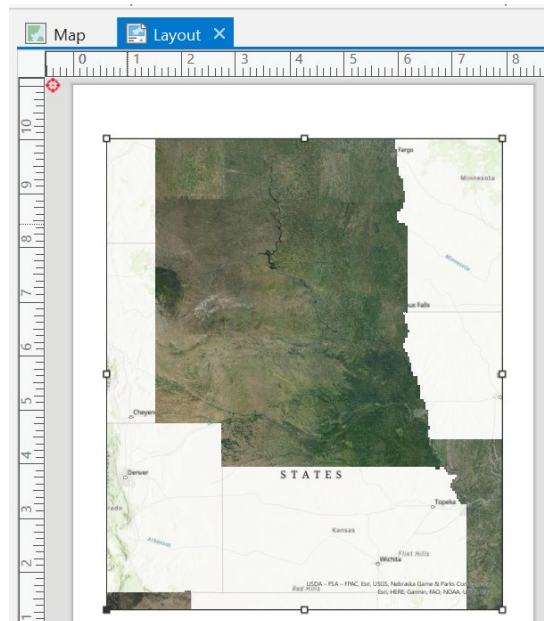
Part 2: Print Maps from the Services

Use these steps to print using imagery from the Services. Note that some experimentation may be required to find the best quality for your printing purposes.

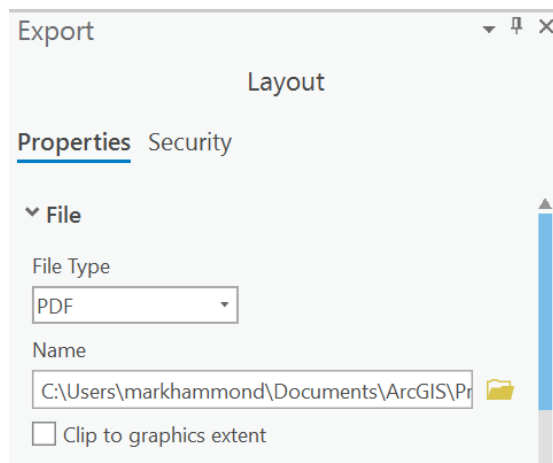
1. Make sure there is an image service or map service layer in the Contents pane and that its cache is turned off
2. On the **Insert** tab (**Project** group) click **New Layout** then select the layout you want.



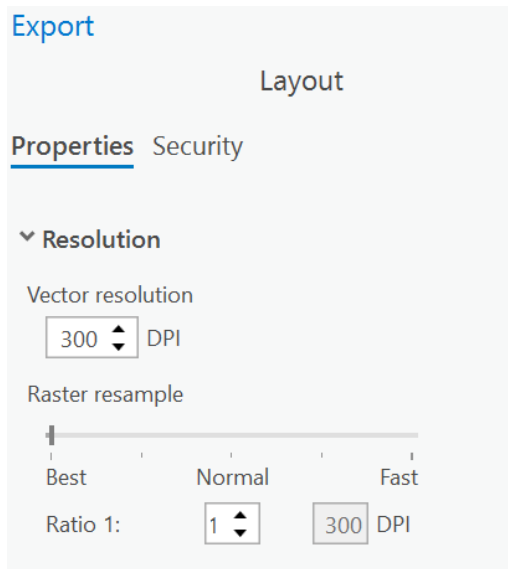
3. On the **Insert** tab (**Map Frames** group) click **Map Frame** then select an extent.
4. On the layout click where you want a corner of the map frame to be and drag the cursor to create the map frame.



5. Prepare the rest of your map using tools on the **Insert** tab (legend, scale bar, etc..).
6. On the **Share** tab click **Layout**.
7. On the Export pane, set the **File Type** to **PDF**.



8. Scroll down to the Resolution section to select the amount of raster resampling, which determines the raster resolution (dpi). Raster resolution is a ratio of your printer resolution. If the ratio is set to 1:3, the raster data will be printed at one-third the dpi set for your printer. You can change the ratio to increase the quality of your raster data or decrease the quality and print faster.



9. Click **Export**.
10. Inspect the image's quality in the exported PDF.
11. When you are satisfied with the result, **print** your map.