ESRI

ELECTRIC DISTRIBUTION: LOAD SUMMARY

Beta 1 | Utility Networks | Pro 1.4

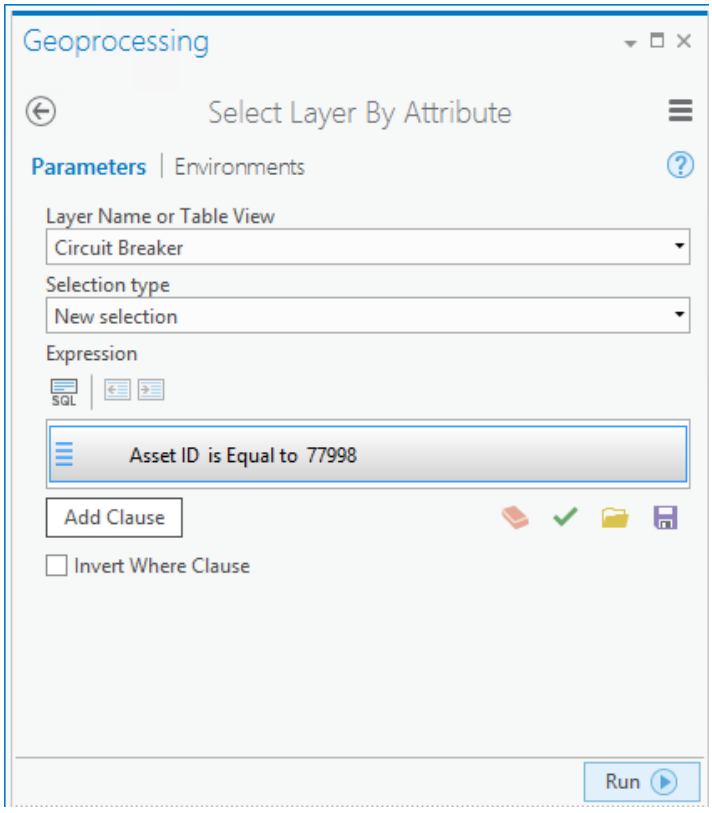
Summary

In this lesson, you will create a load summary report for the RMT003 circuit. Load summary reports present the number of customers being fed by each phase.

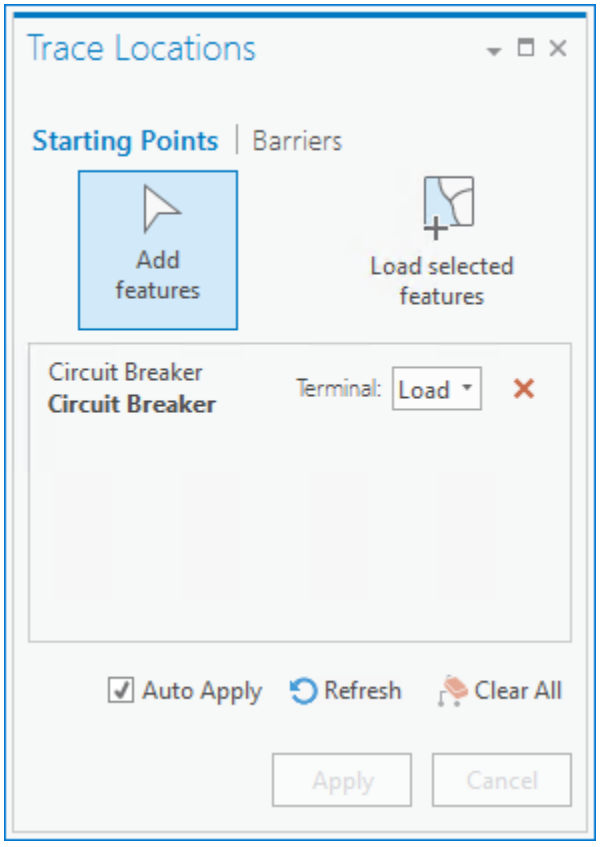
For this workflow, you will use the **Naperville [Services]** map in the **Naperville** project. To access the utility network ribbon, select the Utility Network layer in the Contents pane.

Run Subnetwork Trace

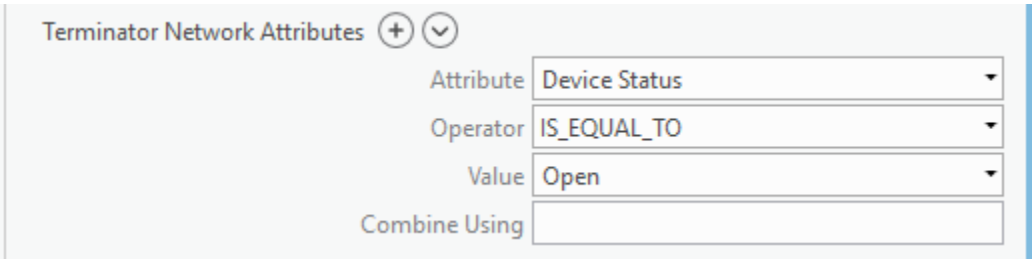
1. Use the **Select By Attribute** geoprocessing tool to select the **CircuitBreaker** with the asset ID of **77998**.
    a. On the **Map** tab in the **Selection** group, click on **Select By Attributes** to open up the tool.
    b. In the Layer Name or Table View parameter, click on the drop down and select **Distribution Device\Circuit Breaker**.
    c. Leave the Selection Type as **New Selection**.
    d. Under the Expression section, click on the **Add Clause** button.
    e. In the first dropdown, select **Asset ID**.
    f. In the second dropdown, select **is Equal to**.
    g. In the third dropdown, type **77998**.
    h. Click **Add** in the clause window.
    i. Click on the **Run** button of the tool.



2. To center the circuit breaker in the map, click once on **Selected Features: 1** in the bottom right hand corner of the map to center the feature in the middle of the map. Set the scale to **1:1000** to zoom into it.
3. In the **Utility Network** tab group, on the **Data** tab, in the **Tools** group, click on **Trace Locations**.
4. In the **Trace Locations** pane, ensure **Auto Apply** is checked. If there are existing Trace Locations in the list, click **Clear All**.
5. From the **Trace Locations** pane, click on **Load selected features**. This will add the circuit breaker to the list and assign the starting point to the Source terminal. This occurs because you are in Auto Apply mode.
6. To update the terminal, from the Terminal dropdown, select **Load**.



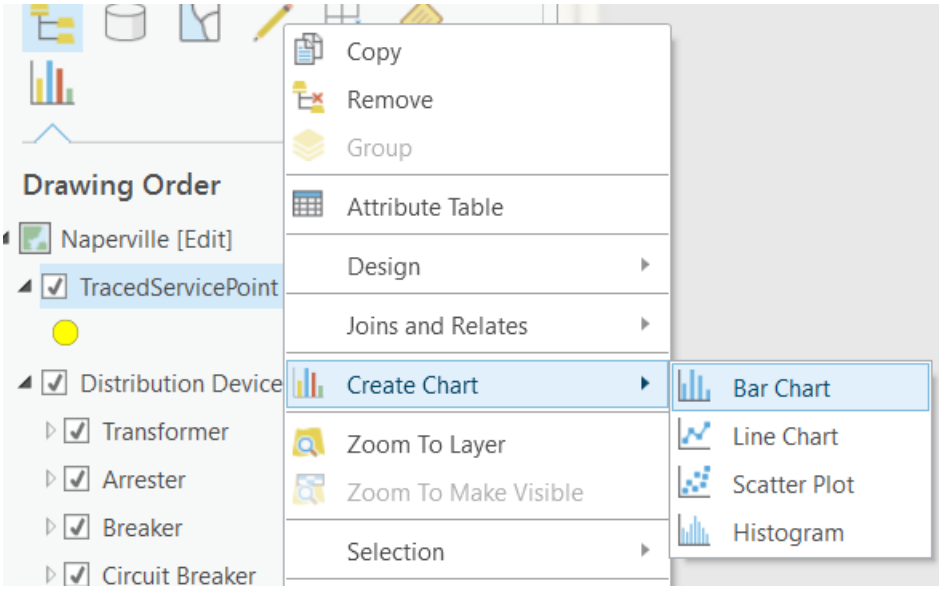
7. In the **Utility Network** tab group, on the **Data** tab, in the **Tools** gallery, click on **Subnetwork**. This will open the Trace Subnetwork geoprocessing tool.
8. In the Domain Network drop down list select **ElectricDistribution**
9. In the Tier drop down list select **Medium Voltage Radial**
10. Notice that the Terminator Filters options will be populated



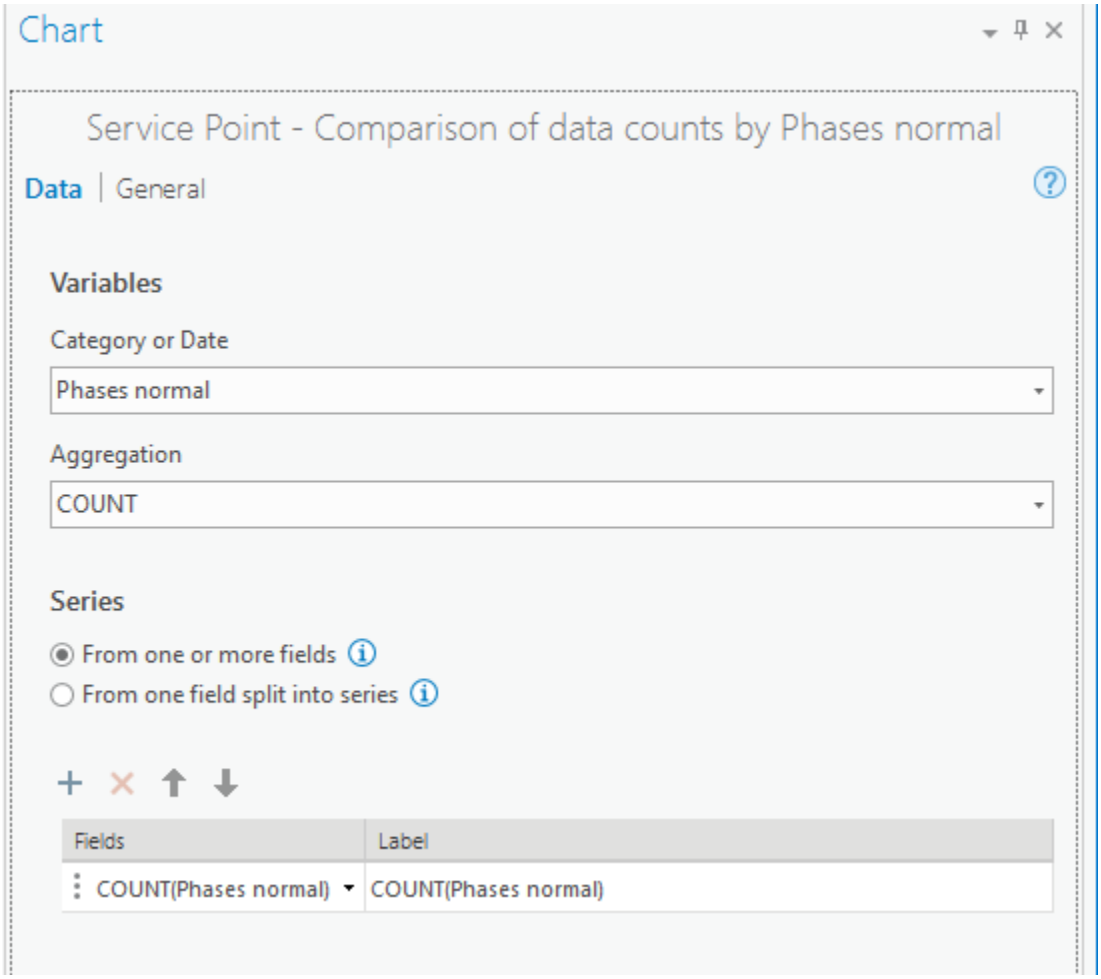
11. Click on **Run**. This will trace and select the 5**,962** features in this circuit. If you've completed previous workflows on this circuit, this number may be different for you.

Create a chart for the customer count by phase

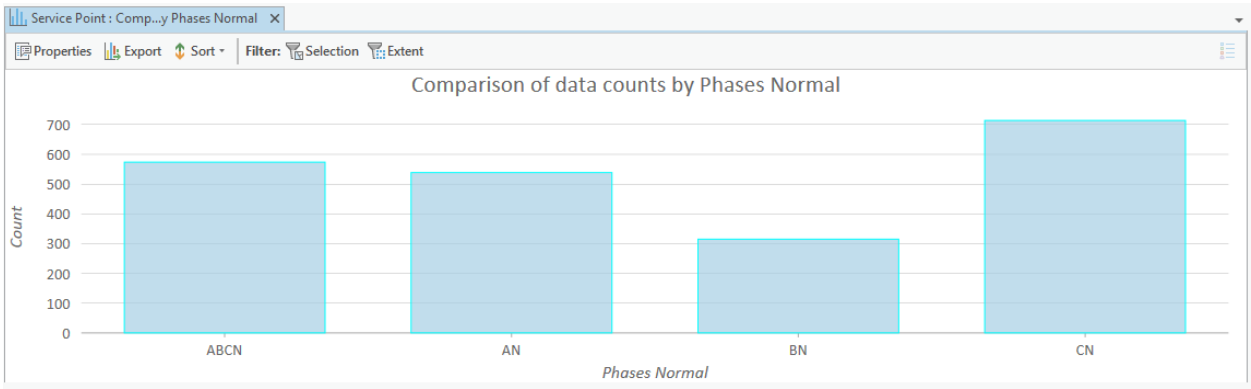
1. On the **Contents** pane, right click on the **ServicePoint** layer.
2. Under **Create Chart**, select **Bar Chart**.



3. On the **Chart** pane, in the **Category** dropdown, select **Phases Normal**.
4. In the **Aggregation** dropdown select **Count** to display the number of customers per phase.
5. In the **Series-**section of the pane and in the **"Fields"** column, select the **"Phases Normal"** from the drop down list.



Your bar chart should look similar to the image below.



- End -