Asset Package Tips and Tricks

Paul LeBlanc (pleblanc@esri.com)

SEE
WHAT
OTHERS
CAN'T

Asset package introduction

What is an asset package?

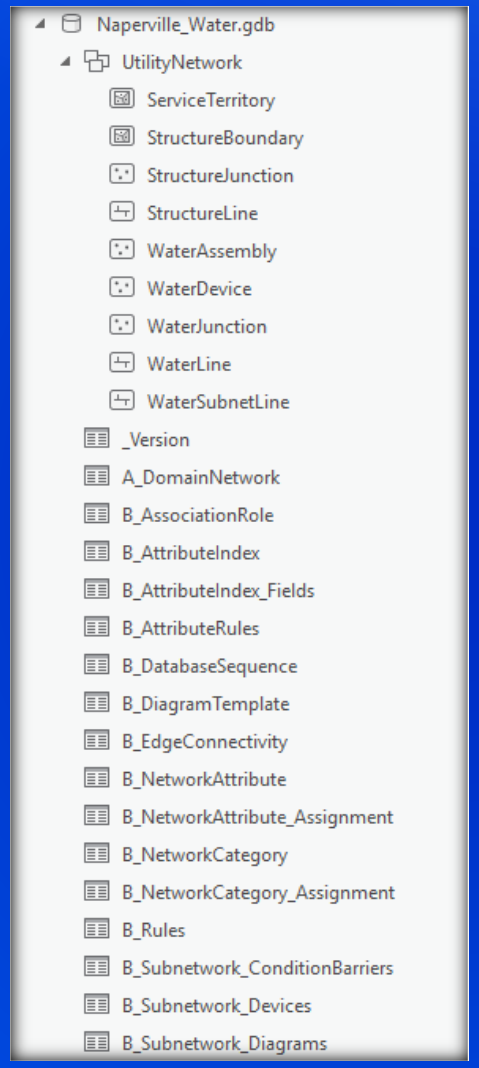
- File geodatabase representation of the utility network
- Contains schema and optionally data
- Can be imported to an existing utility network and exported
- Esri provided data models utilize the asset package

Asset Packages are an interchange format for the utility network

Benefits

- Quickly deploy your utility network
- Easy to modify and extend
- Schema and data validation ensures your network will be configured correctly

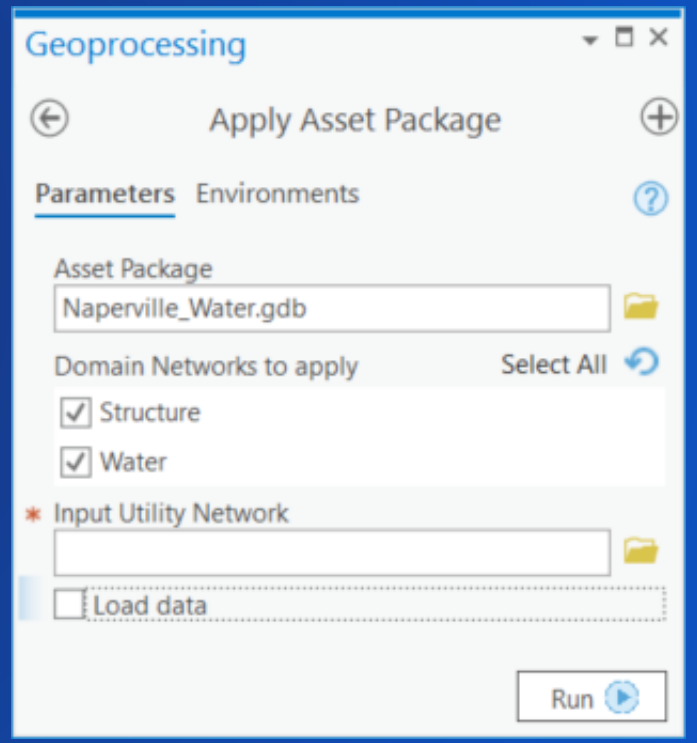
Exploring the asset package



Utility Network Package Tools

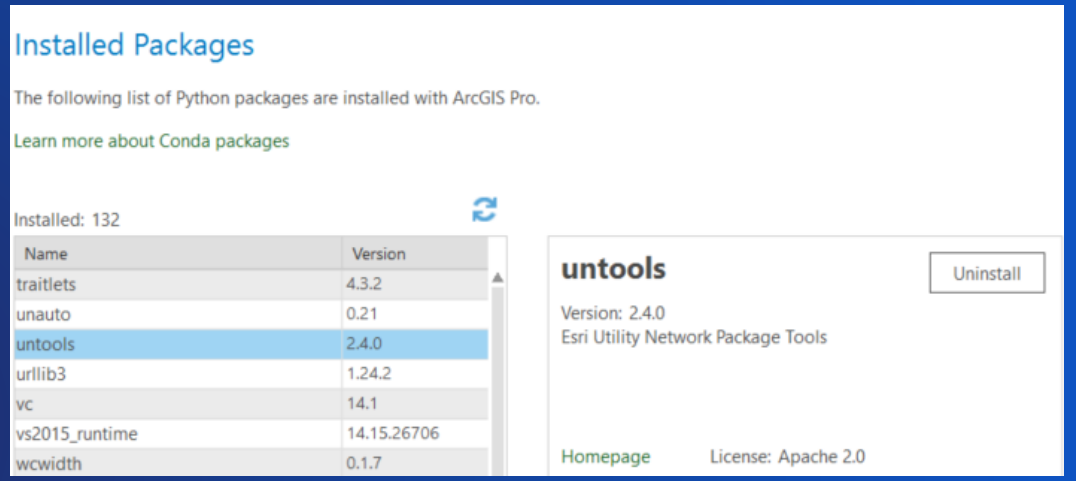
Geoprocessing Tools

- Python toolbox for working with the asset package
- 5 geoprocessing tools
  - 4 for the asset package
  - 1 for creating the utility network in an enterprise geodatabase
- Installed via Python Package Manager

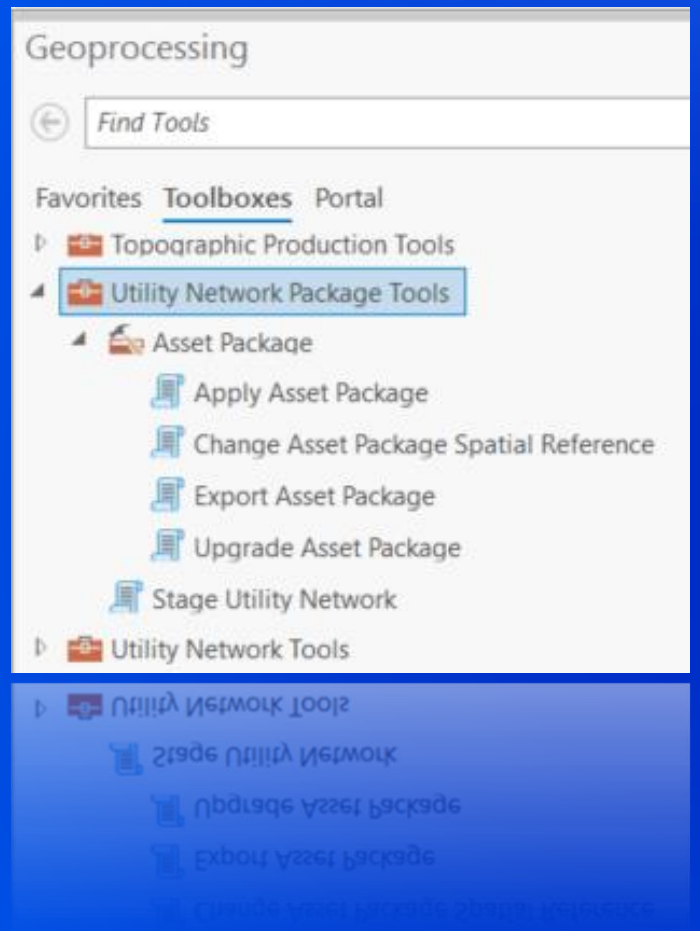


Untools python package

- Python package hosted in the Anaconda Cloud
- Installed via Python Package Manager
- Major releases in sync with ArcGIS Pro
  - Minor releases for bugs and enhancements
- 12 releases, 3700+ downloads



The untools package is fully supported



Exploring GP tools

Tips and Tricks

Modifying the asset package

- Renaming / deleting utility network properties in the tables
- Re-ordering GP calls and schema inside the AP_Workspace
  - Apply attribute rules before append
  - Change field order
  - Bypass operations

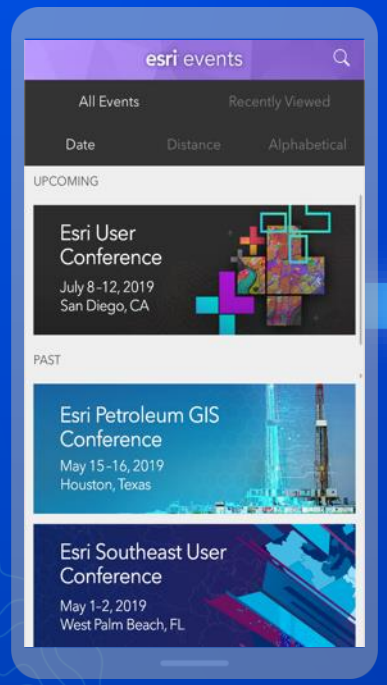
Useful code snippets

```
import untools


# Verbose messaging for GP tools
untools.logger.setLevel('DEBUG')


# Apply Asset Package will serialize the GP calls without executing them.
untools.common.settings.AP_DRY_RUN = True


# Type annotated class for navigating the workspace (similar to arcpy.Describe)
describe = untools.UtilityNetwork('<path to UN>').describe
describe = untools.AssetPackage('<path to AP>').describe
```

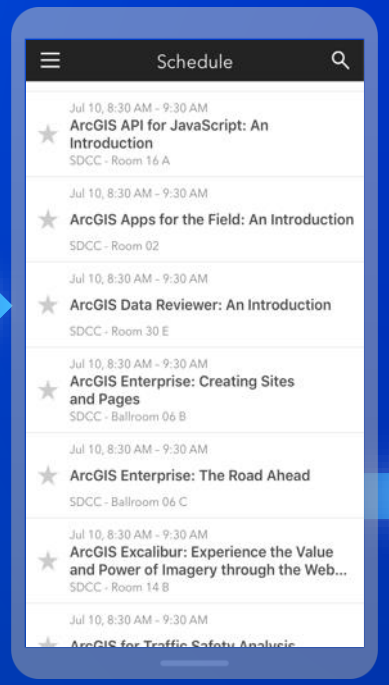
Untools provides advanced capabilities beyond GP tools

Please Share Your Feedback in the App

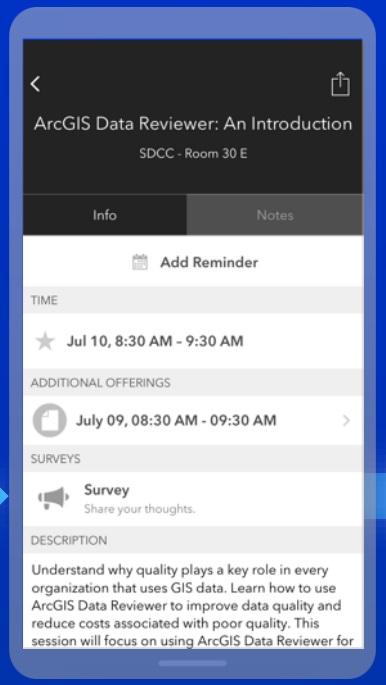
Download the Esri Events app and find your event



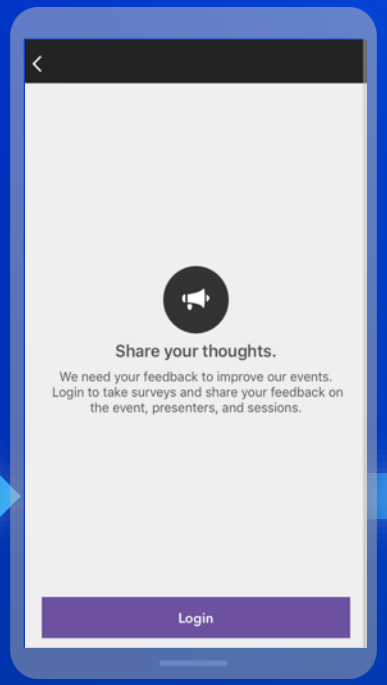
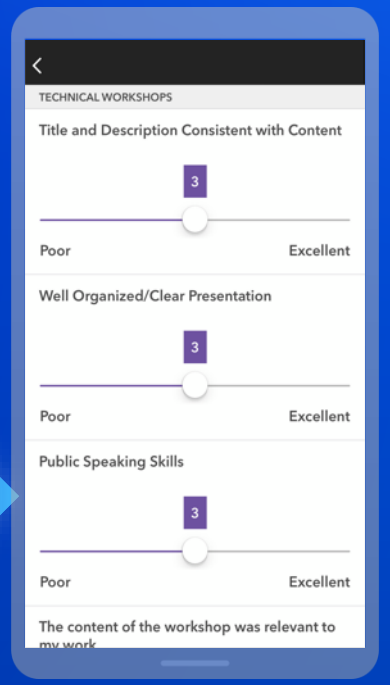
Select the session you attended



Scroll down to "Survey"



Log in to access the survey



Complete the survey and select "Submit"