Packaging Projects, Maps and Layers

Shilpi Jain

Melanie Summers

GIS INSPIRING WHAT'S NEXT

What can be packaged

Layer →
- Layer package (.lypkx)
- Tile package (.tpk)
- Scene layer package (.slpk)

Map →
- Map package (.mpkx)
- Mobile map package (.mmpk)

Project →
- Project package (.ppkx)
- Project template (.apt)

Why package?

Sharing your work

Data can referenced in the package so everyone is working from the same source or part of the package for users outside of your organization

Archiving

A snapshot of your work and data is part of the package

Publishing

Package is uploaded to your portal and published as a service

Publishing Packages - Workflow

1. Data is consolidated into a tile or scene layer package

2. Package is uploaded to your content

3. Package is published as a service

Sharing and Archiving – Workflow

1. Sign into your portal

Optional step: only necessary if you are uploading the package to your content

Sharing and Archiving – Workflow

1. Sign into your portal
2. Open sharing pane / packaging geoprocessing tool

Depending on what you care about, the sharing pane or the geoprocessing tool may make more sense for you

Sharing and Archiving – Workflow

1. Sign into your portal
2. Open sharing pane / packaging geoprocessing tool
3. Determine what should be included in the package

How enterprise database, UNC path data, folder, database and server connections are handled

Sharing and Archiving – Workflow

1. Sign into your portal
2. Open sharing pane / packaging geoprocessing tool
3. Determine what should be included in the package
4. Share Package / Run packaging tool

Sharing and Archiving – Workflow

1. Sign into your portal
2. Open sharing pane / packaging geoprocessing tool
3. Determine what should be included in the package
4. Share Package / Run packaging tool
5. Run Share Package tool

Optional step: only necessary if you used a geoprocessing tool to create the package and want it uploaded to your portal

When to use Geoprocessing Tools

Sharing pane

- Ease of use
- Automatically share to your portal or save to file

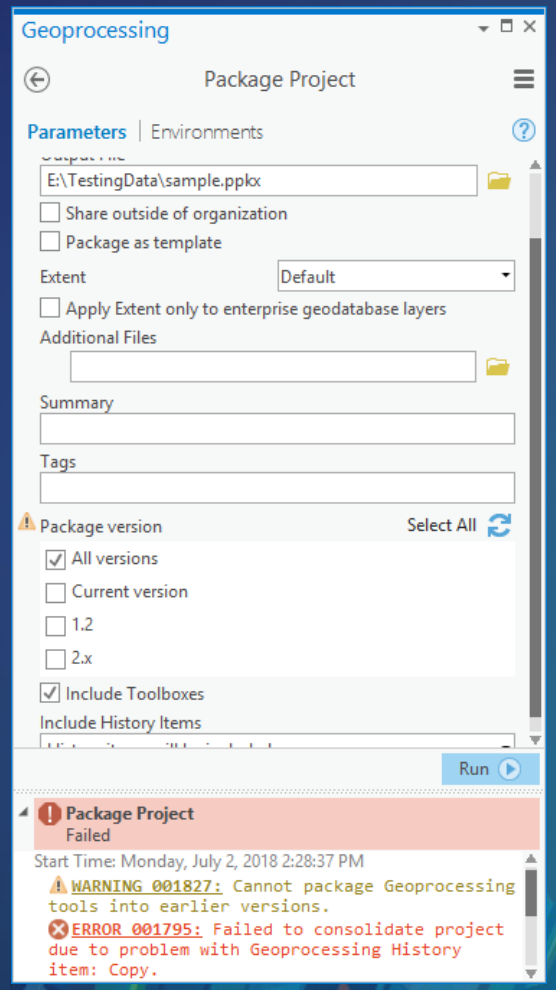
Geoprocessing tools

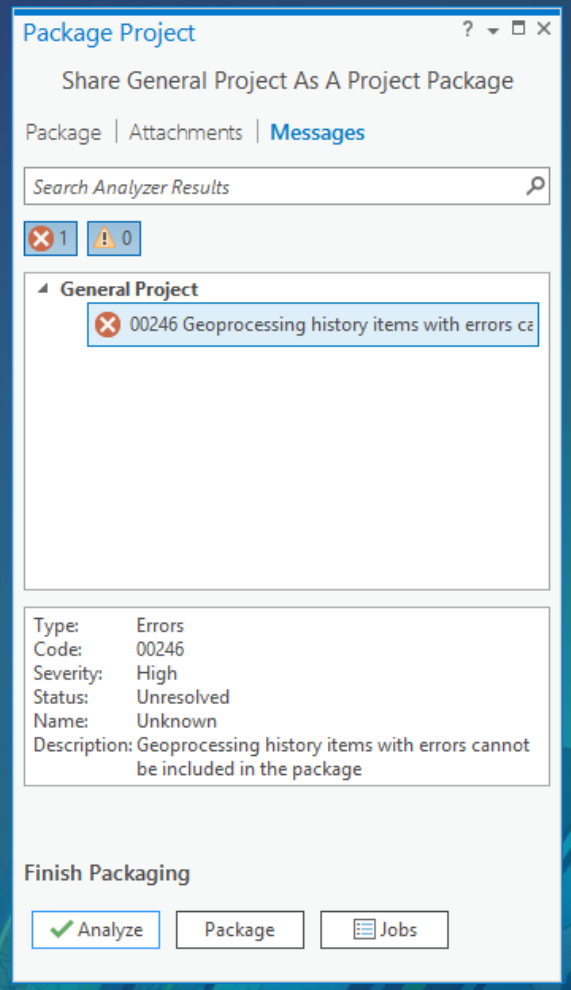
- Additional parameters
- Specify a version to reduce package size
- Automate packaging using python or model builder

Demo packaging

Project package gotchas

- Geoprocessing History
  - Failed history items
  - Missing input data
- Toolboxes with scripts and models
  - Missing input data
  - Building relative paths





Setting up correct relative paths

Project Templates

- Similar to a project package
- Defines defaults for all new projects
- Use UNC path and enterprise geodatabase data to ensure data is referenced
- Default templates (Blank, Global Scene, Local Scene, Map)

Map Package vs Mobile Map Package

Map Package

Map packages are ideal for both archiving and sharing your work. They can only be consumed in ArcGIS Pro.

Mobile Map Package

Mobile map packages are made to share your work. Mobile map packages are uploaded to mobile devices and consumed in mobile applications.

Extracting packages

- Extracted packages are stored in your user profile by default
  - C:\Users\<username>\Documents\ArcGIS\Packages\<package name + GUID>
- Use the extract package tool to specify an extraction location
- Each version saved with the package has its own folder in the extracted location
- Attachments are saved here as well

Review

Archiving

Layer Package

Map Package

Project Package

Sharing your work

Layer Package

Map Package

Mobile Map Package

Project Package

Project Template

Publishing

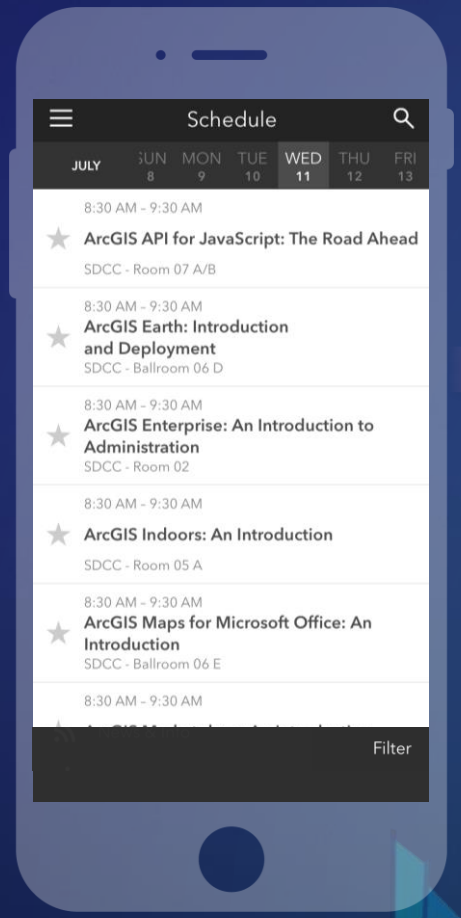
Scene Layer Package

Tile Package

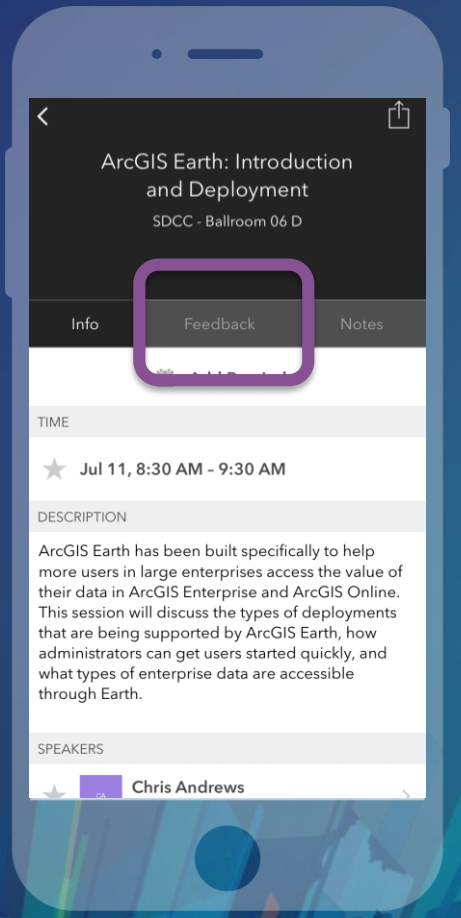
Please Take Our Survey on the App

Download the Esri Events app and find your event

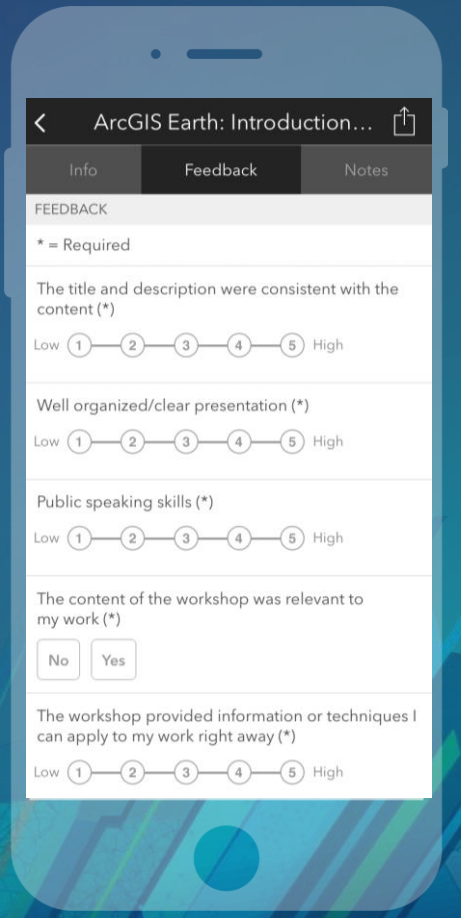
Select the session you attended



Scroll down to find the feedback section



Complete answers and select “Submit”



esri | THE SCIENCE OF WHERE