Distributed Collaboration with ArcGIS Enterprise

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Agenda

- What is distributed collaboration?
- Common patterns
- Implementing a collaboration
  - Administering
  - Sharing content
- New at each release
- Tips and tricks
- Resources
What is Distributed Collaboration?

- A way to establish trust with other deployments to share data quickly, easily and repeatedly
- Uses existing, familiar group sharing model to send content
- Can be established between ArcGIS Enterprise portals and with ArcGIS Online
- Makes your data discoverable across disparate systems
Benefits

- No scripting required
- Automatic synchronization
- Familiar group sharing model
- Common formats across ArcGIS
- Maintain settings in each deployment
Common use cases

“I have multiple Enterprise deployments in different geographic regions or for different departments and I want each of them to contribute their data to a central portal as a repository.”

“I want to manage my data in a central portal and share the authoritative source with other deployments.”

“I want to maintain my data in ArcGIS Enterprise and share it to Online for visibility and scalability with the public.”

“I am working with other deployments on projects and I want to be able to share my content with them without having to script or manually export/import.”
Common Patterns: One to One

ArcGIS Online

“I want to maintain my data in ArcGIS Enterprise and share it to Online for visibility and scalability with the public.”

ArcGIS Enterprise

ArcGIS Enterprise

“I am working with another deployment on a project and I want to be able to share my content with them without having to script or manually export/import.”
Common Patterns: Between Many

“I want to manage my data in a central portal and share the authoritative source with other deployments.”
Common Patterns: Between Many

“I have multiple Enterprise deployments and I want each of them to contribute their data to a central portal.”
Common Patterns: Between Many

“I have multiple Enterprise deployments and I want each of them to contribute their data to a central portal.”

“Then I want to create web maps and applications in the central portal to share that data to ArcGIS Online.”
Today’s demo

Loss Adjuster

Policies

Claims
Administering a collaboration
Where is collaboration administered?
For ArcGIS Online, first enable your organization in My Esri
What is the first step of establishing a collaboration?

1. Host creates a collaboration and invites a guest
2. Host downloads an invitation file and sends to the guest
3. Guest receives & downloads the invitation
4. Guest transfers their response file to the host
5. Host accepts the response and trust is established between both
What are the responsibilities of a host and a guest?

<table>
<thead>
<tr>
<th>ArcGIS Online (host)</th>
<th>ArcGIS Enterprise (guest)</th>
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<tbody>
<tr>
<td>- Invites guests</td>
<td>- Decides if their feature layers are sent as reference or as copies</td>
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<tr>
<td>- Decides if guests will have the ability to send, receive or send + receive content</td>
<td>- If as copies, sets an interval at which new items and edits will be sent to other participants*</td>
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<tr>
<td>- Decides if their feature layers are sent as reference or as copies</td>
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*more on this later
Sharing data in a collaboration
How do I send and receive data in a collaboration?
What types of items can be shared in a collaboration?

- Hosted feature layers
- Hosted feature layer views (by reference)
- Federated feature layers
- CSVs, Word documents, Excel files
- Shapefiles
- Tile package, vector tile packages
- Web maps
- Web scenes
- Map and feature services (URLs)
- Web AppBuilder apps (at 10.6.1)
- Apps created from configurable app templates (at 10.6.1)
- .....
One way of sharing feature layers - by reference

- The data doesn’t move; the feature layer will be a reference to the source who shared it
- The layer is accessed live, showing changes near immediately
- Recipients will need access to view the source layer (credentials)
  - Or the item can be shared with ‘Everyone’
Another way of sharing feature layers - as copies

- Packages the data and creates a new hosted feature layer for your recipient
- New layers and deltas are synchronized from the owner to recipient at scheduled intervals, configured by the guest:
  - Between every 1 and 24 hours
  - For example, every day at 5pm

- Configure your layer to send as copies:
  - Hosted feature layers: enable sync
  - Federated feature layers: Global IDs must be present on enterprise geodatabase-backed layers
Sharing items - Demo
Collaboration in each release
<table>
<thead>
<tr>
<th>Release Date</th>
<th>Feature Highlights</th>
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<tr>
<td>10.5 (Dec 2016)</td>
<td>ArcGIS Enterprise to ArcGIS Enterprise introduced</td>
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<tr>
<td>10.5.1 (June 2017)</td>
<td>Collaboration with ArcGIS Online through the Early Adopter Community</td>
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<tr>
<td>10.6 (Jan 2018)</td>
<td>Share feature layers as copies (Enterprise to Enterprise)</td>
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<tr>
<td>10.6.1 (July 2018)</td>
<td>Share apps</td>
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<tr>
<td></td>
<td>Sync on demand</td>
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<td></td>
<td>Released collaboration with Online! (June 2018)</td>
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</table>
New at ArcGIS Enterprise 10.6.1

• Collaborate web mapping applications
  • Enterprise 10.6.1 to Enterprise 10.6.1
  • Enterprise 10.6.1 to ArcGIS Online

• Synchronize copied layers ‘on demand’
  • To validate content is shared
  • To share content and edits outside of specified schedule
Quick Tips

• Make a draft of your patterns:
  • Who (participants)
  • What (item types)
  • How (as reference or copies)
  • When (synchronization interval)

• Take care in naming your collaborations, workspaces and groups

• Communicate!
Collaboration is a way to make data and information available to other Enterprise deployments and/or ArcGIS Online.

Available at 10.5 between Enterprise; 10.5.1 with Online.

All individual settings are maintained for each deployment; collaboration simply shares content.

Can be a one to one pattern or with many participants.
Resources

• Blogs - esri.com/arcgis-blog:
  1. Introducing an ArcGIS Online and ArcGIS Enterprise Collaboration Workflow
  2. Administering Your Collaboration - Tips and Tricks
  3. Distributed Collaboration Released!
  4. What’s New with Distributed Collaboration in ArcGIS Enterprise 10.6 (and 10.6.1)

• Technical documentation:
  • ArcGIS Enterprise
  • ArcGIS Online
Thank you!