

Today's Speakers



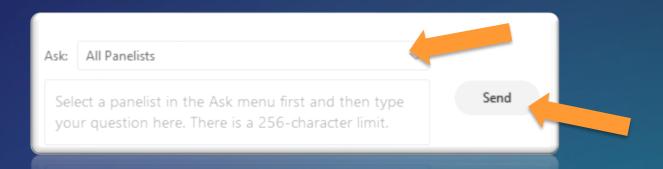


Surveys and Recordings

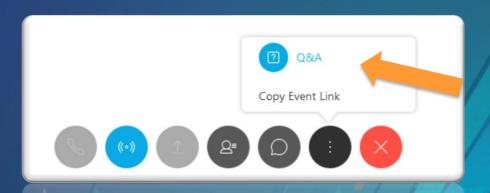
- We are recording today
- Expect an email from us with link
- Please share your thoughts on the exit survey

Open to Questions

- Please use the Q&A panel:
 - Choose *Ask: All Panelists*, type your question and click *Send*



• If you're unable to see the Q&A panel, click the three dots and then the Q&A button on the control dock at the bottom of your screen:



Today's Agenda

This webinar is designed to further your understanding about the new ArcGIS Field Maps, specifically:

- 1. Using the **Field Maps web app** to enhance your maps
 - Working with the web map smart form
- 2. Tips & Tricks for **migrating** from existing mobile apps to Field Maps
 - For Collector, Explorer & Tracker users
- 3. Integrating Field Maps within your mobile workflows
 - Using Url links
 - Link from assignments in ArcGIS Workforce

Poll ... ArcGIS field solutions users ...

Which ArcGIS mobile app(s) are you migrating to Field Maps from?

- 1. Collector
- 2. Explorer
- 3. Tracker
- 4. Not migrating new to Field Maps

Choose as many as apply!





ArcGIS Field Maps: one app to rule them all





Phase I: Fall 2020

Simple map viewing & markup ~ *Explorer*



Field data capture & inspections ~ *Collector*



location tracking technology ~ *Tracker*



Planning & task management ~ Workforce Phase II: TBD



Turn-by-turn navigation ~ *Navigator* **Phase III: TBD**













ArcGIS Field Maps: mobile app

Released November 2020, updated December 2020: ios & Android

- Map Viewing: includes existing functionality in Explorer for read-only maps
 - Access publicly shared maps without ArcGIS identity/no sign-in
 - Mobile Map Packages (created in ArcGIS Pro & optimized for offline map use: used by Explorer & Navigator)
- Editing: includes all existing Collector functionality & more
 - Android on par with iOS!
- Map Markup:
 - Notes, freehand sketch, markers
 - Share peer-to-peer, by email, to ArcGIS Organization
- High accuracy data collection: support for location & collecting with GNSS
- View, record and share location tracks ~ Tracker functionality
- Online & Offline support
- ArcGIS Online & Enterprise 10.8.1+
- Can use with Enterprise 10.6.1 10.8: must register the ArcGIS Field Maps app ID





Field Maps in-office workflow

1. Create & configure your layers

- **/**
- New layers in ArcGIS Organization using templates
- Existing layers in ArcGIS Organization (hosted feature layer)
- Existing layers in <u>ArcGIS Server</u> published to your Enterprise portal
- Create domains, subtypes, feature templates, set default symbology
- Allow attachments, restrict editing permissions

2. Create your web map



- In ArcGIS Pro (publish to ArcGIS organization)
- ArcGIS Organization Map Viewer: recommend Map Viewer Beta as it supports the form
- Add layers: editing, reference, basemap
- Configure popup, scale dependencies, add bookmarks (used in ad-hoc offline)

3. Open web map in Field Maps web app & configure options:



- Content: Editable layers:
 - Feature templates: use existing or make copy to modify
 - Configure Form for each layer (read-only forms coming to future release)
 - Share to groups (uses ArcGIS Organization share settings)
 - Offline (optional)



<u>Field Maps Web App:</u> ArcGIS Online (included)

Enterprise 10.8.1 Installer

10.9 included

Field Maps In-Office Workflow for Offline

Offline Guide

- 3 options for offline:
- Configure a web map for download & create map areas for mobile workers to take offline
- Configure a web map for download & allow mobile workers to define map areas to take offline
- Create & share an MMPK that can be downloaded by mobile workers or copied directly to devices (READ ONLY) 3.

Additional configuration in Field Maps web:

- Enable offline for the map; check all layers (editable, reference, tables, basemaps) are enabled for offline
- Optional: create offline areas
 - TIP: need to first save a COPY of the same map for connected & ad-hoc offline use!
- Specify Feature & attachment delivery options to optimize download & sync
- Specify to use a tile package for the <u>offline basemap</u> (.vtpk, .tpk or .tpkx download to device)

Tips for Going offline with Enterprise:

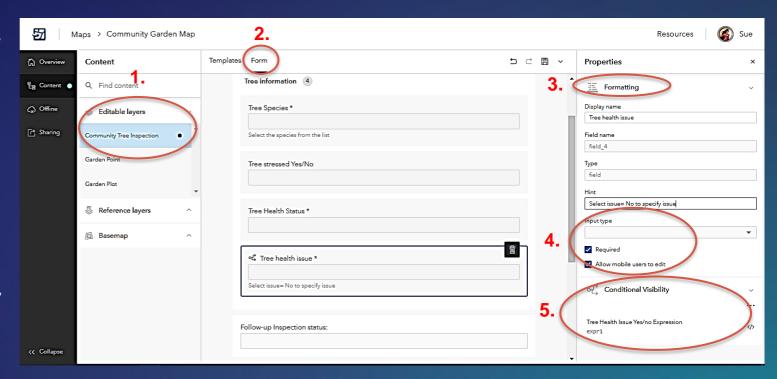
- Configure <u>layers for offline use</u> (hosted feature layers, Server layers)
- Esri Basemaps are NOT enabled for offline use by default: add basemap from ArcGIS Online for offline use





Field Maps Web App - Configure the Form

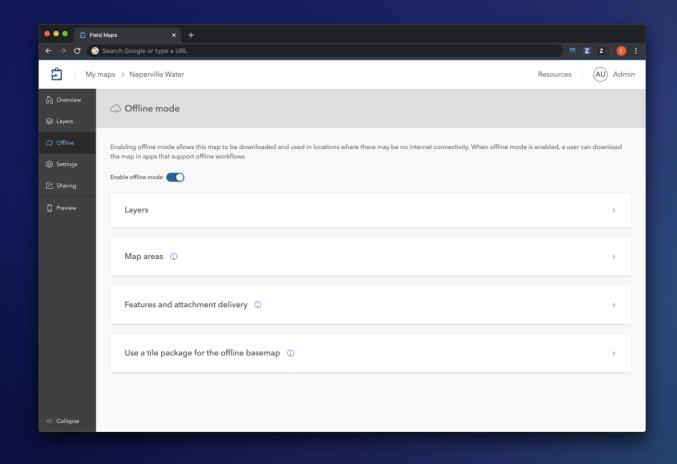
- Create new or convert from map pop-up
- calculate entries based on formulas & other parts of the form using Arcade
- Add/Remove attributes
- Make Required
- Allow users to Edit or make read-only
- use default values from feature template
- Set input type (text, numeric & date field options)
- Use Arcade expressions > Arcade Editor
 - Apply conditional visibility to fields using <u>Arcade Constraint Profile</u>
- Setup to scan barcodes & QR codes
- Group attributes
 - Name and description
 - Collapse/Expand
 - Organize, order fields



Tip: Once you configure & save the form you must use Map Viewer Beta if further editing the map or your form will be lost!

*Much more to come to form capabilities in future phased releases...

Field Maps Web App Demo

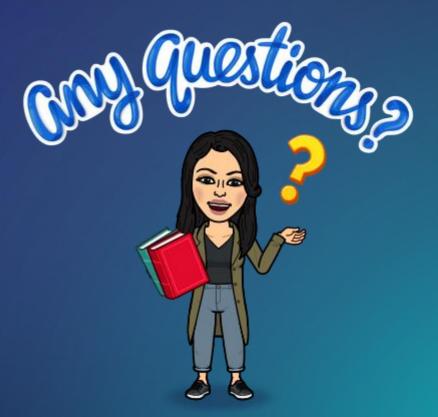




Q&A: Using Field Maps web app









Tricks & Tips for Working With the Field Maps Mobile App:

逭 Collector & Explorer users 🥹

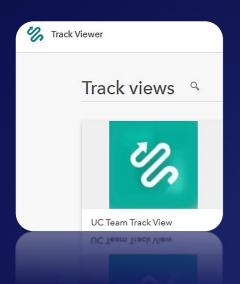
- Work with existing web maps used in Collector or Explorer "as-is" in Field Maps mobile
 - user interface in Field Maps is identical to the UI in Collector and Explorer
 - "Use in Field Maps" setting for web maps is checked on by default
 - Use same web map for read-only users as well as editors
 - Users who do not have editing user types & privileges will only be able to open the map & layers contained as read-only
 - Offline maps previously downloaded onto devices need to be copied into the Field Maps Map Packages folder on the device
 - Offline options: mmpks ~ prepare mobile map packages (same process as for Explorer)

Tricks & Tips for using Location Tracking with Field Maps



FAQs

Blog Post



Location Tracking in your ArcGIS Organization:

- Enable ArcGIS organization location tracking capability
- Track points stored in 2 point layers: Last Known Locations & Tracks
- Purchase & provision Tracker licenses as required
 - For any level of users including Viewer
- Track Viewer web app to create Track views & Add users
 - View tracks in other maps & apps
- ArcGIS Enterprise 10.7+ (10.8+ Track Viewer automatically installed)

Location tracking in the Field Maps mobile app:

- Turn on tracking from maps list upon sign-in or from GPS banner in map
 - Set duration for tracking (4, 8, 12 hours, until switched off)
 - Turn on My Tracks form Layers to view in map
- Track with or without cellular/wifi connection (uses your device GPS or external GN\$S)
- Apple Watch support: start tracking, set duration
- Tracker users: use Field Maps only for tracking > view in any shared map (optional)





Field Maps Mobile App Demo









Q&A: Field Maps mobile app







Field Maps: Integration using Mobile App Links

- 1. Open Field Maps from a Universal app link
- Help Topic <u>Open your map from a link</u> to learn more about constructing app links <u>https://fieldmaps.arcgis.app?parameter=value¶meter=value</u>
- Supports a number of parameters including open map, search and set location, set initial feature capture & more:
 - itemID (map id), scale, bookmark, center (coordinates), geometry, feature attributes (populate Specified entries), callback, GNSS AntennaHeight & LocationProfile

2. Open other ArcGIS mobile apps from Field Maps:

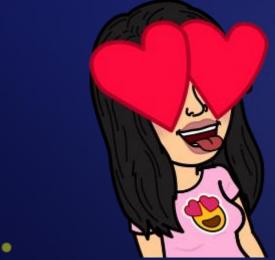
- Configure link in a custom popup for attribute(s)
- Pass parameters to fill out including attribute values
- Link to Survey123: documentation, blog posts
- Link to QuickCapture
- Directions > **Navigator** option from settings

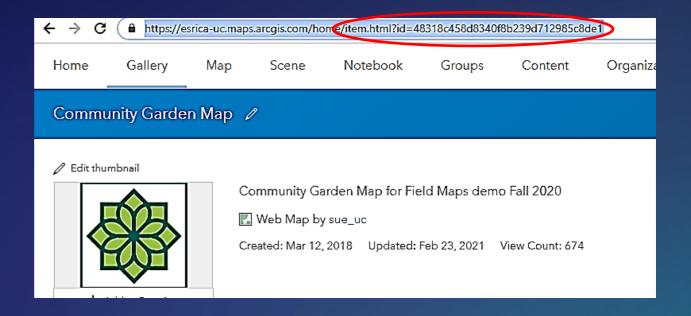
Other integration option: link from assignments using ArcGIS Workforce

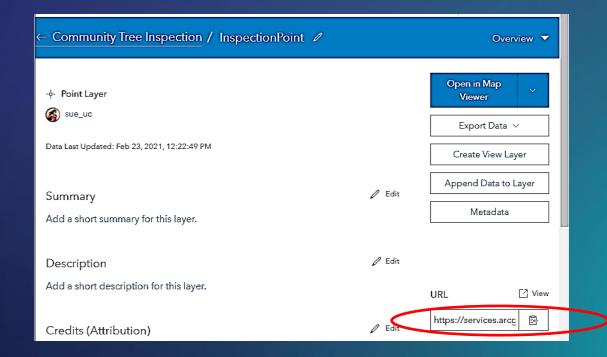


Demo: URL Links



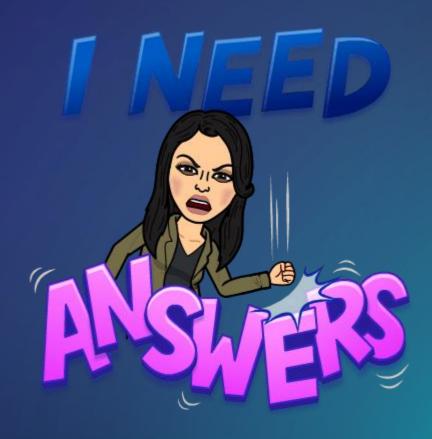


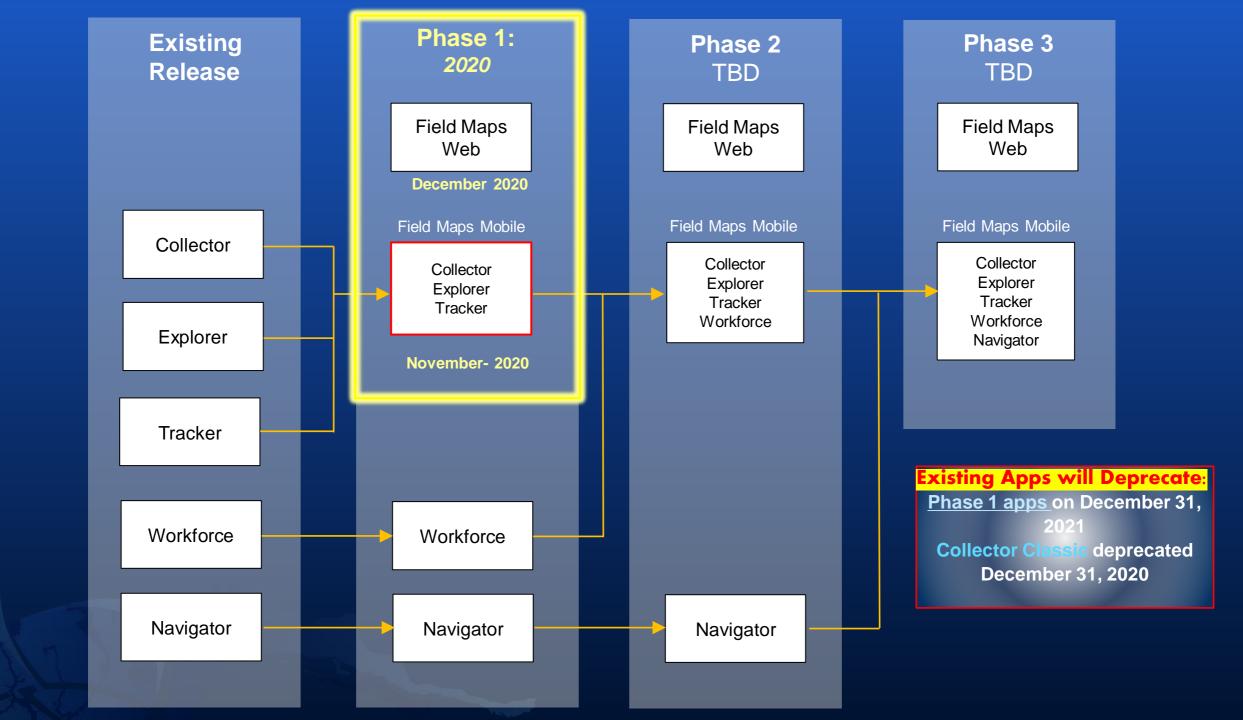




Q&A: Using url parameters







ArcGIS Organization Licensing

Available in ArcGIS Online and Enterprise

- Field Maps honours existing licenses, user types & privileges
- Named user type determines what users can do in ArcGIS Mobile Apps: in-office and in the field
- App bundles provide access to mobile apps (part of Field Apps bundle)

 Viewing
 Editing
 Authoring

 Viewer
 Editor
 Field Worker
 Creator
 GIS Professional











Simple map viewing

- * Location tracking
- * Turn by turn navigation

Field apps bundle ad-on

- Simple map viewing
- Data capture & editing Receive assignments
- * Location tracking
- * Turn by turn navigation

Field apps bundle included

- Simple map viewing
- Data capture & editing
- Receive assignments
- * Location tracking
- * Turn by turn navigation

Field apps bundle included

- Simple map viewing
- Map editing
- Receive & Create assignments
- Create maps & apps
- * Location tracking
- * Turn by turn navigation

Field apps bundle included

- Simple map viewing
- Map editing
- Receive & Create assignments
- Create maps & apps
- Desktop GIS & Analysis
- Location tracking
- Turn by turn navigation

^{*} Add-on license: any level

^{*} Navigator & Tracker

A few more FAQs for migrating to Field Maps:

Q: Will Field Maps be released on Windows?

A: This is currently not under development. Go to Field Maps Ideas & make a suggestion!

- Alternative is **ArcGIS Pro 2.7 with GNSS support** for location & data collection
- ArcGIS Pro 2.7 also directly reads mobile geodatabases (format used offline in Field Maps)

Q: Can Field Maps be customized?

A: No, it is all configuration only. Review how much it does meet your workflow needs.

- While we always emphasize configuration before customization, other options are <u>Survey123</u> & QuickCapture – source code provided by <u>AppStudio</u>

Q: Is Field Maps the new Collector123/will provide all Survey123 capabilities in the form?

A: No: Survey123 provides many unique capabilities built upon XLS Form. It will continue to be supported & developed. Web map smart form capabilities are built upon the feature layer & map.

- Try out the new web map smart form to see what it can do for your workflows
- Test workflow with both apps & compare which meets your needs the best
- Much more is coming with the web map smart form this is just the first release
- Web map smart forms will work across ArcGIS system: beta map viewer today, Pro & other apps later = advantage
- FACT: You can use existing Phase 1 apps & Field Maps on the same device ~ so test your maps & workflows to make sure everything works the way you need it to

Resources

- Field Maps <u>GeoNet</u>: Blog, Ideas, Questions
- Blog posts: https://www.esri.com/arcgis-blog/?s=#&products=field-maps
- Documentation
- Guides: Migration guide, offline guide
- Early Adopter- https://earlyadopter.esri.com/key/ArcGISFieldMaps
- Beta Alias <u>ArcGISFieldMapsBeta@esri.com</u>
- learn.arcgis: Field Maps lessons
- YouTube Playlist
- Esri Canada:
 - Webinars: Introducing Field Maps recording November 5, 2020
 - Training: Field Data Management & Collection using ArcGIS
 - Blogs: https://www.esri.ca/en-ca/news-events/news/esri-canada-blog

Thank You

- The recording will be available online at: resources.esri.ca/webinars
- If you have any additional questions about the content presented to you, feel free to contact us:
 - Jasmine Sohal: jsohal@esri.ca
 - Sue Enyedy-Goldner: senyedygoldner@esri.ca



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