ArcGIS Field Apps
What’s new and what’s coming

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Field Operations | Location-enable all phases of field work

- **Plan**
  - Workforce for ArcGIS

- **Navigate**
  - Navigator for ArcGIS

- **Capture**
  - Collector for ArcGIS
  - Survey123 for ArcGIS
  - ArcGIS QuickCapture

- **Monitor**
  - Tracker for ArcGIS
  - Operations Dashboard

- **Coordinate**
  - Workforce for ArcGIS
  - Tracker for ArcGIS
  - Explorer for ArcGIS

- **Understand**
  - Explorer for ArcGIS
  - Publisher extension
Workforce for ArcGIS
Plan and coordinate field work

Plan and coordinate field work
Use location awareness to improve efficiency
Receive & manage field assignments
Recent Workforce Enhancements

- Explorer for ArcGIS integration
- Import Workers
- Configure integration at the assignment type
- Pass information from Workforce to field apps
  - Location Description
  - Work ID
  - Global ID
- Attach media to work assignments
Assignment integration with Explorer for ArcGIS

App Integration ✅

App integrations maximize the efficiency of your mobile workers by providing directions and the maps and forms needed to complete their work. More info

- Collector for ArcGIS
  - Add
- Explorer for ArcGIS ✅
  - Edit
  - Remove
  - Assignment type Hydrant Inspection is integrated to the Chicago Bike Routes and Rocks map
- Navigator for ArcGIS ✅
  - Remove
- Survey123 for ArcGIS
  - Add
Import Workers from a CSV

Add Workers from File

Step 1
Create a CSV file with workers to be added to the project.

- Pre-populate with existing workers

Step 2
Add a CSV file using drag and drop or by selecting a file. Username is a required field.

- Download template CSV file
- Import CSV file

Import CSV file with workers to be added

Add Users
Pass GlobalId via app integration
Support for **offline** workflows (in beta now)

Ability to display local tracks from Tracker

Pick-up work

Sequencing
## My Projects > Dev Summit 2019

<table>
<thead>
<tr>
<th>Assign</th>
<th>Filter by type, location or ID</th>
<th>+ Assignments</th>
</tr>
</thead>
</table>

### 8 assignments

<table>
<thead>
<tr>
<th>Status</th>
<th>Due</th>
<th>Priority</th>
<th>Assignee</th>
<th>Sort</th>
<th>Assignments</th>
</tr>
</thead>
</table>

**Inspection**

- **201-231 N Calle El Segundo, Palm Springs, California, 92262**  
  - **High**  
  - **8 days**

- **201-231 N Calle El Segundo, Palm Springs, California, 92262**  
  - **Medium**  
  - **8 days**

- **1900 E El Oro Way, Palm Springs, California, 92262**  
  - **Medium**  
  - **8 days**

- **101-137 N Avenida Caballeros, Palm Springs, California, 92262**  
  - **Medium**  
  - **8 days**

**To Do**

**HIGH PRIORITY**

- **Inspection**  
  - **201-231 N Calle El Segundo, Palm Springs, California, 92262**  
  - **High**  
  - **Due Mar 13, 2019 at 22:59**

**MEDIUM PRIORITY (4)**

- **Inspection**  
  - **201-231 N Calle El Segundo, Palm Springs, California, 92262**  
  - **High**  
  - **Due Mar 13, 2019 at 22:59**

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**Workers**

**Clustering**

- **County of Riverside, Bureau of Land Management, Es...**

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**Assignments**

- **Workers**

**Resources**

- **Craig**
Navigator for ArcGIS
Route your field workforce to where it needs to go

Find assets and navigate to them while **offline**

Use your own maps, asset inventory, and custom roads

Traverse **pre-planned routes** for maximum efficiency
Three ways to get maps in Navigator:

1. Use Esri-provided maps
2. Create your own custom maps
3. Blend Esri-provided maps with your own data
1. Login to your organization in Navigator
2. Download from ArcGIS
3. Start using map in Navigator

Note: maps can be side loaded onto devices also
Navigator for ArcGIS
Create and use custom maps

ArcGIS Pro

ArcGIS Online or ArcGIS Enterprise

Package*

Share

Download

Navigator

*Requires Network Analyst extension
Options when creating maps for routing

• Use your own data

Or

• Customize the Esri Navigator map
  - Requires StreetMap Premium Custom Roads
Use Route Layers from ArcGIS
What's New in Navigator for ArcGIS

API's & SDK's
Map Viewer
Enterprise
Desktop

Save route layer to ArcGIS

Use route layer on device

Diagram showing the process of saving and using route layers from ArcGIS.
Explorer for ArcGIS
Maps at your fingertips

View your maps anywhere
Easily find field assets
Create and share notes on-the-go

Understand
See what's happening around you with maps
Demo
Explorer for ArcGIS
Distributing GIS data to contractors & other outside organizations

Email
FTP site
Web host
OneDrive
Dropbox

Contractors
Other agencies
First responders

Anonymous mobile map package*

*Requires Publisher extension
Windows 10 support
What's New in Explorer for ArcGIS

GET IT ON
Google Play

Download on the

JUST SEARCH FOR "EXPLORER FOR ARCGIS" IN THE MICROSOFT STORE

Get it from
Microsoft
Layer refresh interval support
What's New in Explorer for ArcGIS
Offline Areas

Areas are defined in the webmap by the author and loaded onto the device via Explorer.
Offline On-demand

The ability to take part of a webmap offline from within Explorer

Functionally equivalent to what is in Collector today
Collector for ArcGIS
Accurate data collection made easy

Efficient data collection
Works anywhere, anytime
High data accuracy

Capture
Perform data collection and send it back to the office from anywhere

Get it from Microsoft
Download on the App Store
Get it on Google Play
Demo
Collector for ArcGIS
What’s New and What’s Coming

Q1 2019 Released!
• Snapping
• Bulk Attribute Update
• Recent values
• Tracker Tracks

Q2 2020
• Android support for new Collector
• Simplifying field deployments
• Introducing support for Smart Forms

Moving Forward
• Branch Versioning Support
• Utility Network Support
• Vertical Datum Transformations
Simple data collection experience

Sophisticated smart form capabilities

Web & Native / Desktop & Devices

Capture Perform data collection and send it back to the office from anywhere
Survey123 for ArcGIS
Form Centric Data Collection

What’s New

• Pictorial Lists
• Polygon + line data capture
• PDF configurable reports
• Photo Watermarking

What’s Coming

• Web maps, mmpk’s, VTPK’s
• On-prem API/website setup
• Survey update notifications
Pictorial lists

- Selectable images in your form
- Leverages SVG files
- Supports:
  - Single selections
  - Multiple selections
- XLSForm image-map appearance
Polygons and Lines

- Add and update polygons and lines
- Calculate lengths and areas
- Dynamically construct geometries
- XLSForm: geoshape and geotrace
Photo Watermarks

- Watermark photos on the fly
- Date, Location, Comments…
- Configurable:
  - Position
  - Color
  - Size

Date & Time: Wed Jun 28 14:06:06 PDT 2017
Position: 39.40648° / -118.92755°
Altitude: 436ft
Datum: WGS-84
Azimuth/Bearing: 272° N88W 4886mils (True)
Elevation Angle: -28.8°
Horizon Angle: -00.5°
Zoom: 1X
CSFM 412 MP 24.96
Feature Reports

• Create high quality printable documents
• Configure your own templates
  • Using Microsoft Word
• Request reports:
  • On demand
  • Programmatically
• Outputs:
  • Docx
  • PDF
ArcGIS QuickCapture
Rapid data collection

A “big button” mobile app

Simplest way to capture field observations

At-speed data collection workflows

Capture
Perform data collection and send it back to the office from anywhere

Windows
App Store
Google Play
Demo
Tracker for ArcGIS
Know what happens in the field

Share your location

Know where everyone is

Own your location data

Monitor
Know where workers are and see the progress of work in real-time

Download on the App Store
GET IT ON Google Play
Tracker for ArcGIS
Know what happens in the field
Share your location
Detect Patterns
Know where everyone is
Tracker for ArcGIS

Components

Tracker mobile app (iOS, Android)
- Simple, schedule-driven tracking experience
- Supports offline use
- Premium App available with all user types
  - Requires an add-on license

Track Viewer web app
- Display and manage users and their location history
- See only the users that you have access to

New Location Tracking capability
- Enable location tracking in their organization
- Single service for storing and managing location tracks
- Available in ArcGIS Online or ArcGIS Enterprise
  - Enterprise requires the spatiotemporal big data store
Tracker for ArcGIS

Mobile app

- Mobile user in control
  - Turns on/off tracking
  - Set reminders/schedule to start or stop tracking
- Collect Tracks
  - Tracks are collected using movement with core location and motion APIs
- Tracks are uploaded every
  - 10 mins (60 secs if device is being charged and battery is > 20%)
- LKL (Last known location) are uploaded every
  - 60 seconds but configurable to 30 seconds
- Supports offline use
  - Tracks stored locally if connectivity is lost
- Licensing
  - Premium app that works with Viewer+ user type
Location Tracking Capability

Included with ArcGIS Online, Enterprise 10.7+

- Administrators enable location tracking
  - Creates a folder called Location Tracking
  - Creates a single service for storing and managing location tracks
  - Exposes a new View Tracks privilege for track viewers

- Tracks have a retention period
  - Default 30 days

- Admin can pause/disable tracking
- Admin can view how many members can view tracks
- Spatiotemporal Big Data Store required in ArcGIS Enterprise
Tracker for ArcGIS
Analyzing Location Tracks

Linear heat maps

Incident Detection

3D Visualizations

Aggregation
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”
Field Operations | How can you enable Field Operations?

Explorer is available to all user types, including Viewers

Includes Workforce, Collector, Survey123, and QuickCapture

Available in ArcGIS Online and Enterprise