

Apps for the Field: Mobile Data Collection using ArcGIS Online

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Access to Esri Software

- ◉ Site license agreement for Idaho higher education institutions
 - Teaching/research/administration

ArcGIS Online Platform

- A web-based collaborative mapping platform hosted by Esri
 - Enables users to create, manage, analyze, store, and share maps, apps, and data.
- Continued progression from desktop to web GIS



ArcGIS Online Accounts

- Organizational account
 - University of Idaho
 - Research and Teaching Portal
 - Administration Portal

Apps for the Field



Collector for ArcGIS

Efficient, accurate data collection on smartphones or tablets replaces paper forms. Respond, record, work on- or offline, and sync automatically.



Navigator for ArcGIS

Improve workforce reliability. Navigate directly to assets even when offline. Interact seamlessly with Collector for ArcGIS and other apps to save time.



Operations Dashboard for ArcGIS

Get a real-time view and common operating picture. Add data feeds to events or daily operations. Integrate maps, charts, gauges, and histograms.



Explorer for ArcGIS

Access asset data, search for places and features, or sketch on the map to highlight important aspects. Share useful maps with the public.



Workforce for ArcGIS

Staff and apps can work together. Sync with other apps to get assignments, navigate to them, and collect data in one workflow, on one mobile device.



Survey123 for ArcGIS

Use a form-based survey interface in a lightweight, intuitive app. In just a few clicks you can collect, manage, and analyze survey results.

Collector & Survey123



Collector for ArcGIS

Efficient, accurate data collection on smartphones or tablets replaces paper forms. Respond, record, work on- or offline, and sync automatically.

Map-centric
Opens a map



Survey123 for ArcGIS

Use a form-based survey interface in a lightweight, intuitive app. In just a few clicks you can collect, manage, and analyze survey results.

Form-centric
Opens a list of questions

Comparison of Functionality

Functionality	Survey123	Collector
Data collection style	Formcentric	Mapcentric
Supports capture of new data	Yes	Yes
Supports editing existing data	Coming soon	Yes
Smart forms	Yes (XLSForm)	No
Works offline	Yes	Yes
Supports anonymous access	Yes	No
Platforms	iOS, Android, Windows, Windows Phone, Mac, Linux, Web	iOS, Android, Windows
Technical Support	Esri and the community	Esri and the community

Collector for ArcGIS

- ◉ Map-centric collecting and updating data in the field
 - Collect points, lines, areas, and related data
 - Fill out map-driven forms
 - Attach photos
 - Work offline
 - Use professional-grade GPS receivers

Collector for ArcGIS

⦿ Requirements

- Android | iOS | Windows 10
- ArcGIS organizational account
 - Publisher role
- Maps can include data from ArcGIS Online or ArcGIS Server

⦿ Installation

- <http://doc.arcgis.com/en/collector/>

ArcGIS Online Content Management

- ◉ Organize items by folders
 - Under 'My Content' create a folder
- ◉ Document items
- ◉ Create a group(s)
 - Type: Private, organization, public
 - Contributors: Members or only group owner
- ◉ Share
 - Group
 - Organization
 - Everyone (public)

My First Collection

- Sign in to ArcGIS Online using web browser
- Click 'My Content'
- Click 'Create > Feature Layer'
 - Choose 'Field Notes' template & follow prompts
- Click 'Open in Map Viewer'
- Take defaults and click 'Save'
 - Enter a title, tags, description
- Click 'Home' > 'My Content'
 - You'll see the hosted feature layer and web map items
- Sign in to collector & start collecting

Setting Options

- ◉ Data (hosted feature layer)
 - Update features or only attributes, edit all features or only your own features, etc.
- ◉ Web Map
 - Offline mode
 - Enabled by default in our example

Get More Advanced

- ◉ ArcGIS Desktop/Pro
 - Create a feature layer in geodatabase
 - Coded domains
 - Create related tables

Survey123 for ArcGIS

- Form-centric data gathering
 - Design surveys with predefined questions
 - Similarities to Qualtrics
 - Attach photos
 - Work offline

Survey123 – Creating & Completing Basic Surveys

- Can use a web browser to design & complete survey
 - <https://survey123.arcgis.com/>

Survey123 – App to Create Advanced Surveys

○ Survey123 Connect App

- Create and publish advanced surveys
- Install on Windows/Mac/Linux to create and share a survey
- Supports XLSForms specification
 - Form standard created to help simplify the authoring of forms in Excel.

Survey123 – App to Complete Surveys

- Survey123 for ArcGIS
 - Collect data online or offline
 - iOS/Android/Microsoft

Esri e-Learning

◉ Collector

- www.esri.com/training/Bookmark/rJ6IAGknl

◉ Survey123

- www.esri.com/training/Bookmark/BJPGRfk2l

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