



Collector for ArcGIS

Is it really that easy?

Collector for ArcGIS | Le-Ax Water District



Marking Hydrants

ARCGIS BLOG

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Le-Ax Water District Using Collector's High-Accuracy Beta Now!

by Jeff Shaner on June 3, 2016

Collector for ArcGIS is adding exciting new capabilities to the next release that let you map your asset data (hydrant, meters, valves, pipes, signs, and more) with a precise spatial location. Travis Anderson, an engineer with Le-Ax Water District in Ohio, is taking advantage of our very active beta program to get a head start on marking assets this summer.

Background

Le-Ax was formed in 1968 to provide safe water to its employees, maintains 400 miles of water mains. When Travis started as a district engineer, he had to mark locations. The crew struggled with traditional methods and repair and would be waiting for minutes. Travis is self-taught when it comes to GIS. He made their first web map in December 2014. After a little more reading he started putting together the first layout of a map. He knows about GIS, he said he was surprised to find out that GIS is also running but also tailor it to their own preferences. However, what really changed everyone's workflow was the use of smartphone and tablet devices. With the inventory of valves but knew they could not map them. Collector came out it was a no-brainer for him. He can retrieve information, take pictures, etc. The capabilities that the traditional GPS had but he can take maps offline, it became a matter of time.

High Accuracy Data Collection

Their maintenance crew grew comfortable with looking at several GNSS units, they settled on working well with the iPad and Collector. They are now using meter readers that will be providing additional data. The RTK network (when they have a data connection). The maintenance crew will mainly gather data in the fields (repair claims). Travis wants to use this information for future projects. Travis said, "our system has been in the works for a while now."

Esri Water Meetup

Rural Water District Goes High Accuracy

September 22 - 9:00 AM
FREE Online Webinar

Esri and Le-Ax Water District are joining forces in this webinar. Learn from Le-Ax Water how they have implemented Collector for ArcGIS and how they paired it with external GNSS receivers to collect highly accurate locations.

Register to get real answers to questions like:

- How difficult was it to set up Collector for ArcGIS?
- What kind of resources do you need in house?
- Was training required for field crews?
- How much did it cost?

"Esri's Collector for ArcGIS turns non-technical employees who can operate a smart phone into a GIS Field Technician"

John Simpson, Le-Ax Water - General Manager

REGISTER NOW

Join or login to comment.

81 went

- Christa C. Co-Organizer, Event Host
- Lixin H.
- Carl A.
- Devo C.
- Kostas F.
- Lisa S.
- Shona
- Steve A.
- Matt S.
- Mitch V.

Agenda

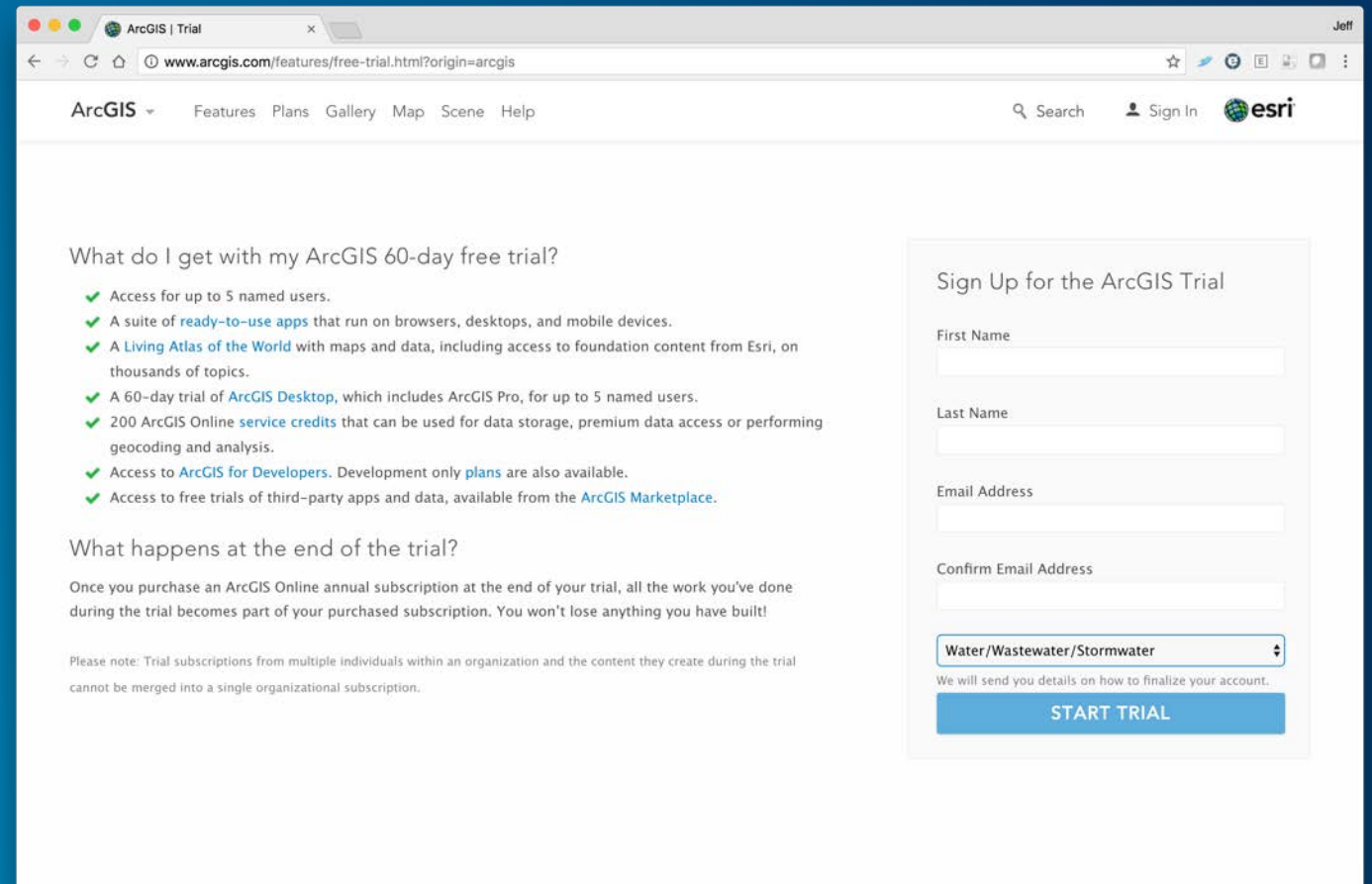
- **3 Steps to Success:**
 1. Set up an ArcGIS Online Organization
 2. Create web maps
 3. Download and use Collector for ArcGIS

Step 1

Set up an ArcGIS Online Organization

Collector for ArcGIS | Create an ArcGIS Online Subscription

- Learn Lessons:
 - [Set up an ArcGIS Organization](#)
 - [Manage a mobile workforce](#)
- Tips for Success:
 - Get a sponsor
 - Align with IT strategies
 - Take baby steps
 - Learn from successes and failures



The screenshot shows a web browser window with the URL www.arcgis.com/features/free-trial.html?origin=arcgis. The page title is "ArcGIS | Trial". The navigation menu includes "ArcGIS", "Features", "Plans", "Gallery", "Map", "Scene", and "Help". There is a search bar and a "Sign In" button. The main content area is titled "What do I get with my ArcGIS 60-day free trial?" and lists several benefits with green checkmarks:

- ✓ Access for up to 5 named users.
- ✓ A suite of [ready-to-use apps](#) that run on browsers, desktops, and mobile devices.
- ✓ A [Living Atlas of the World](#) with maps and data, including access to foundation content from Esri, on thousands of topics.
- ✓ A 60-day trial of [ArcGIS Desktop](#), which includes ArcGIS Pro, for up to 5 named users.
- ✓ 200 ArcGIS Online [service credits](#) that can be used for data storage, premium data access or performing geocoding and analysis.
- ✓ Access to [ArcGIS for Developers](#). Development only [plans](#) are also available.
- ✓ Access to free trials of third-party apps and data, available from the [ArcGIS Marketplace](#).

Below this, the section "What happens at the end of the trial?" explains that once a user purchases an annual subscription, their trial work becomes part of that subscription. A "Please note" section states that trial subscriptions from multiple individuals within an organization cannot be merged into a single organizational subscription.

On the right side, there is a "Sign Up for the ArcGIS Trial" form with the following fields:

- First Name
- Last Name
- Email Address
- Confirm Email Address

There is a dropdown menu with "Water/Wastewater/Stormwater" selected, and a "START TRIAL" button. A small note at the bottom of the form says "We will send you details on how to finalize your account."

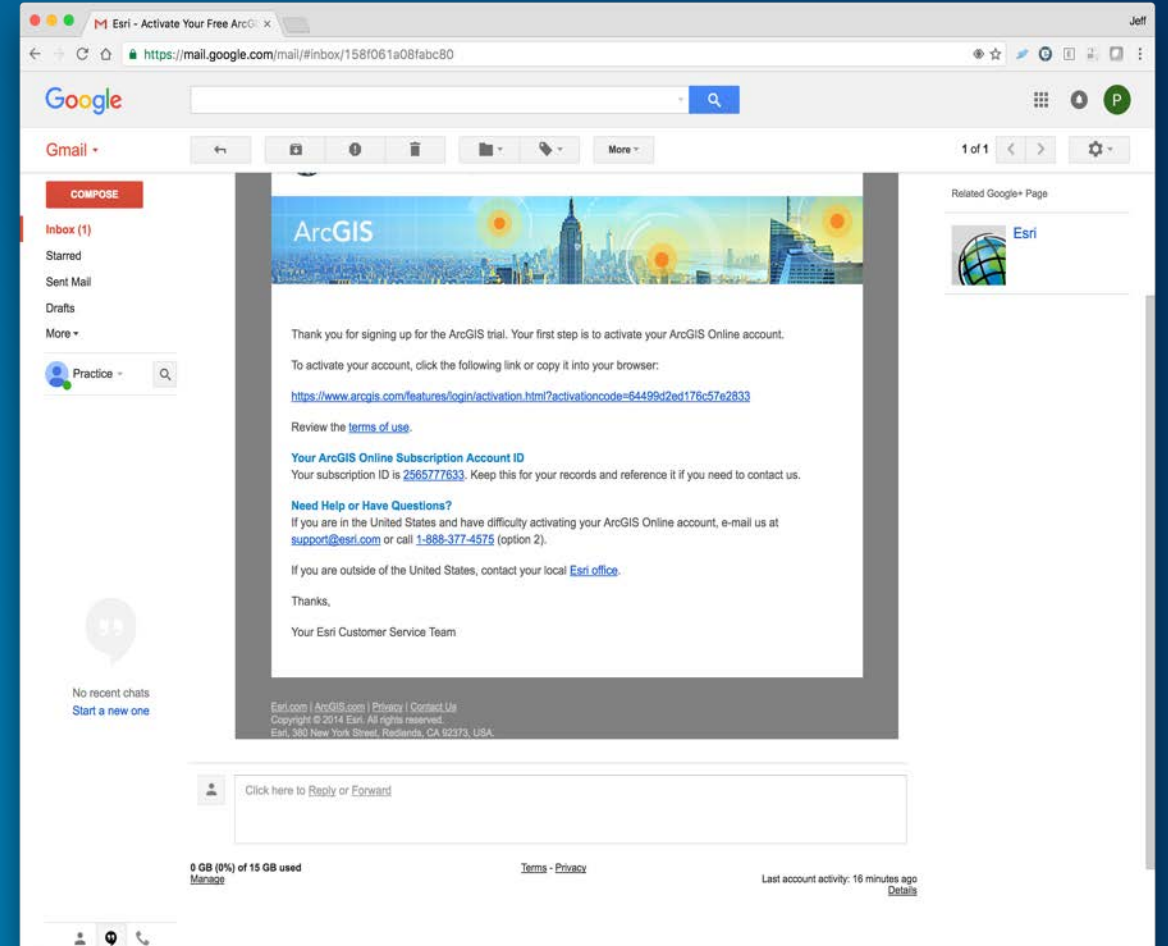
<http://www.arcgis.com/features/free-trial.html>

Collector for ArcGIS | Activate a Trial Organization

Sign up online

Click on confirmation link to activate

- Create Admin Username and Password
- Provide Organization name



The screenshot shows a Gmail interface with an email from Esri. The email content is as follows:

ArcGIS

Thank you for signing up for the ArcGIS trial. Your first step is to activate your ArcGIS Online account.

To activate your account, click the following link or copy it into your browser:

<https://www.arcgis.com/features/login/activation.html?activationcode=64499d2ed176c57e2833>

Review the [terms of use](#).

Your ArcGIS Online Subscription Account ID
Your subscription ID is [2565777633](#). Keep this for your records and reference it if you need to contact us.

Need Help or Have Questions?
If you are in the United States and have difficulty activating your ArcGIS Online account, e-mail us at support@esri.com or call [1-888-377-4575](tel:1-888-377-4575) (option 2).

If you are outside of the United States, contact your local [Esri office](#).

Thanks,

Your Esri Customer Service Team

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Copyright © 2014 Esri. All rights reserved.
Esri, 380 New York Street, Redlands, CA 92373, USA.

At the bottom of the email, there is a link: [Click here to Reply or Forward](#)

At the bottom of the Gmail interface, there is a storage indicator: **0 GB (0%) of 15 GB used** with a [Manage](#) link. To the right, there are links for [Terms - Privacy](#) and [Last account activity: 16 minutes ago](#) with a [Details](#) link.

Collector for ArcGIS | Set up your Trial Organization

Sign up online

Click on confirmation link to activate

- Create Admin Username and Password
- Provide Organization name

Set up your organization

- Give it a short name*
- Give it a URL
- Set the language
- Provide a region
- Determine security access

The screenshot shows the 'Set Up Your Organization' page on the ArcGIS website. The page is titled 'Set Up Your Organization' and includes a navigation menu with 'Features', 'Plans', 'Gallery', 'Map', 'Scene', 'Groups', and 'My Content'. The user 'Jeff' is logged in. The main content area contains several sections for configuring the organization:

- Organization name:** A text input field containing 'WaterWebinar2'. The instructions state: 'Specify the name of your organization as you'd like it to appear on the home page and any correspondence with the members of your organization. This name may be modified later as necessary. The name may contain up to 55 characters.'
- Organization short name:** A text input field containing 'WaterWebinar2', which is marked as 'Available'. The instructions state: 'Please specify a short name – an acronym or abbreviation – for your organization. This text uniquely defines the URL to your organization. Carefully consider the name you want to use as it cannot be changed later. The short name may contain up to 16 alphanumeric characters, including hyphens.' Below this, it says: 'The URL to your organization's home page will be: http://WaterWebinar2.maps.arcgis.com'
- Language:** A dropdown menu set to 'Browser Default'. The instructions state: 'Please choose the default language for members of your organization. The choice of language determines the language in which the user interface is presented as well as the way time, date, and numerical values appear. Individual users will be able to customize this choice by visiting their profile page. If you choose Browser Default (and you allow anonymous access), anonymous users will see ArcGIS Online in the locale of their browser. Signed-in users who have configured their language in their profile will display in that language.'
- Region:** A dropdown menu. The instructions state: 'Choose a region to determine the default basemap gallery, the default basemap, and the default extent for new maps for your organization. The region you choose also controls the scalebar, measure tool and routing units. Choosing United States sets the units to miles and feet; any other region choice, including World, sets the units to meters and kilometers.' Below this, it says: 'Note that you can also specify your organization's basemaps and extent by editing the appropriate settings in the Maps tab.'
- Security:** A checkbox labeled 'Allow access to the organization through HTTPS only' is checked.
- Link:** A checkbox labeled 'Contact Us:' is unchecked. The text input field next to it contains 'example_mailto:support@domain.com'. The instructions state: 'Set up the Contact Us link that appears at the bottom of the page. Use a valid website URL or valid mailto: link syntax.'

At the bottom of the form, there are two buttons: 'SAVE AND CONTINUE' and 'LOG ME OUT, I'LL WORK ON THIS LATER.'

Collector for ArcGIS | Navigating ArcGIS Online

- **My Organization**

- [Invite Members](#)
- [Organize Content using Groups](#)
- Monitor Usage
- More...

- **Tips**

- [Download the Model Organization for Water Utilities](#)
- Use the included banner templates, icons

The screenshot shows the 'Users' and 'Roles' management interface in ArcGIS Online. The 'Users' section is on the left, and the 'Roles' section is on the right.

Users Section:

- Step 2: Create new ArcGIS logins one at a time or in batch from a file.
- Instructions: Select any role without administrative privileges for the member to be a part of. An invitation email is not sent. You must inform the member of their user name and password. If you do not have an email address for a particular user, use the administrator's email address.
- Form fields: Email, First Name, Last Name, Username, Password, Role (dropdown menu).
- Buttons: BACK, ADD ANOTHER, SAVE, CANCEL.

Roles Section:

- Header: Roles ?
- Text: Create, edit, and manage roles in your organization. You may create a role based on an existing role or role template, allowing or denying privileges associated with the role as you deem necessary.
- Note: Note that when creating or editing a role, changes aren't saved until you click Save Role.
- Buttons: CREATE ROLE, ASSIGN ROLES.
- Table:

Role Name	Members	
Administrator	1	i
Publisher	0	i
User	0	i

Users

Roles

Collector for ArcGIS | Navigating ArcGIS Online

- **Groups View**

- How content is shared
- Create and join Groups
- View Organizations Groups
- More...

- **Tips**

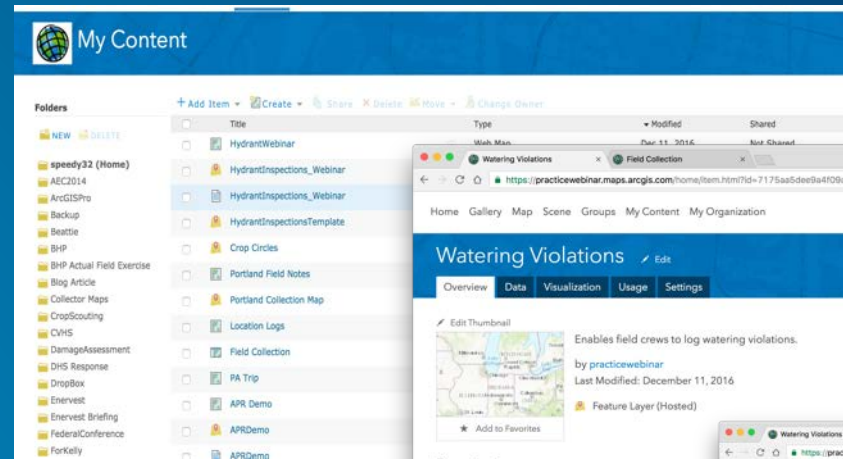
- Create a group for field data collection
- Automatically add users to that group
- Use the group icon provided by model organization

The image shows two overlapping screenshots from ArcGIS Online. The top screenshot displays the 'Field Collection' group page, which includes navigation options like 'EDIT', 'INVITE USERS', and 'MEMBERSHIP REQUESTS'. It lists group content such as 'Water Violations Map' and 'Watering Violations Layer'. The bottom screenshot shows the 'Field Collection' group configuration form, where the 'Name' is 'Field Collection', the 'Summary' is 'Group used for field data collection', and the 'Description' is 'The purpose of this group is to share maps and layers for use in the field using Collector for ArcGIS'. The 'Tags' field contains 'Collector' and 'Field Data Collection'. The 'Status' is set to 'Organization', and 'Users can apply to join group' is checked. The 'Contributors' are set to 'Members', and the 'Sorted by' is 'Title' in 'Ascending' order. 'SAVE' and 'CANCEL' buttons are visible at the bottom.

Collector for ArcGIS | Navigating ArcGIS Online

- **My Content View**

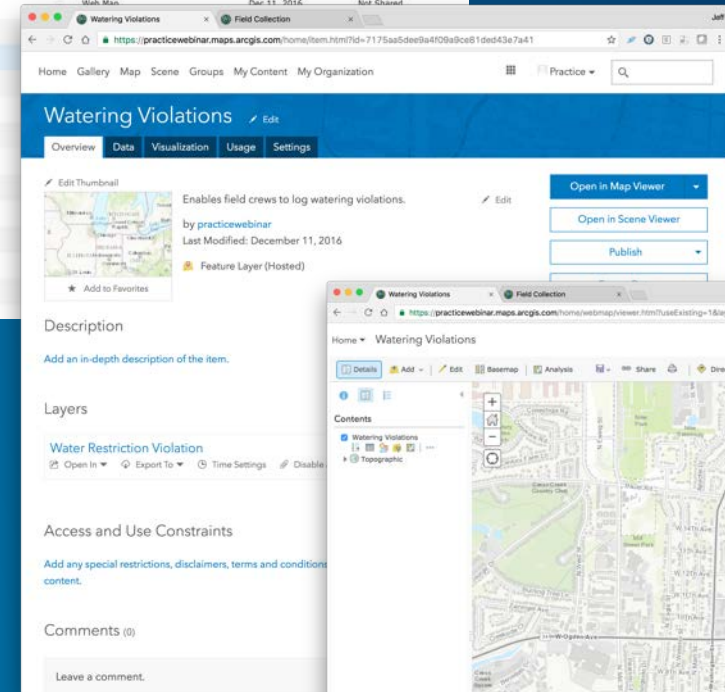
- Manage all content you own
- Filter content in your list
- Organize content into folders
- More...



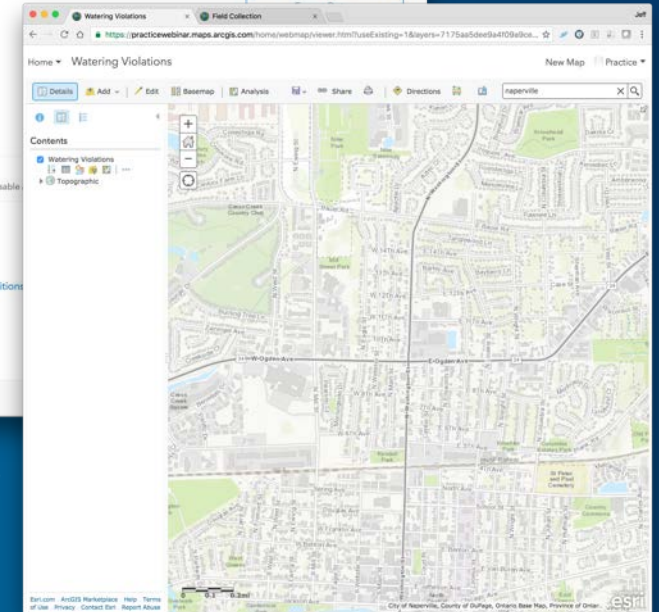
Items

- **Tips**

- Start Simple:
 - Use the Templates to create layers
 - Author a map
 - Share both in a group



Item Details



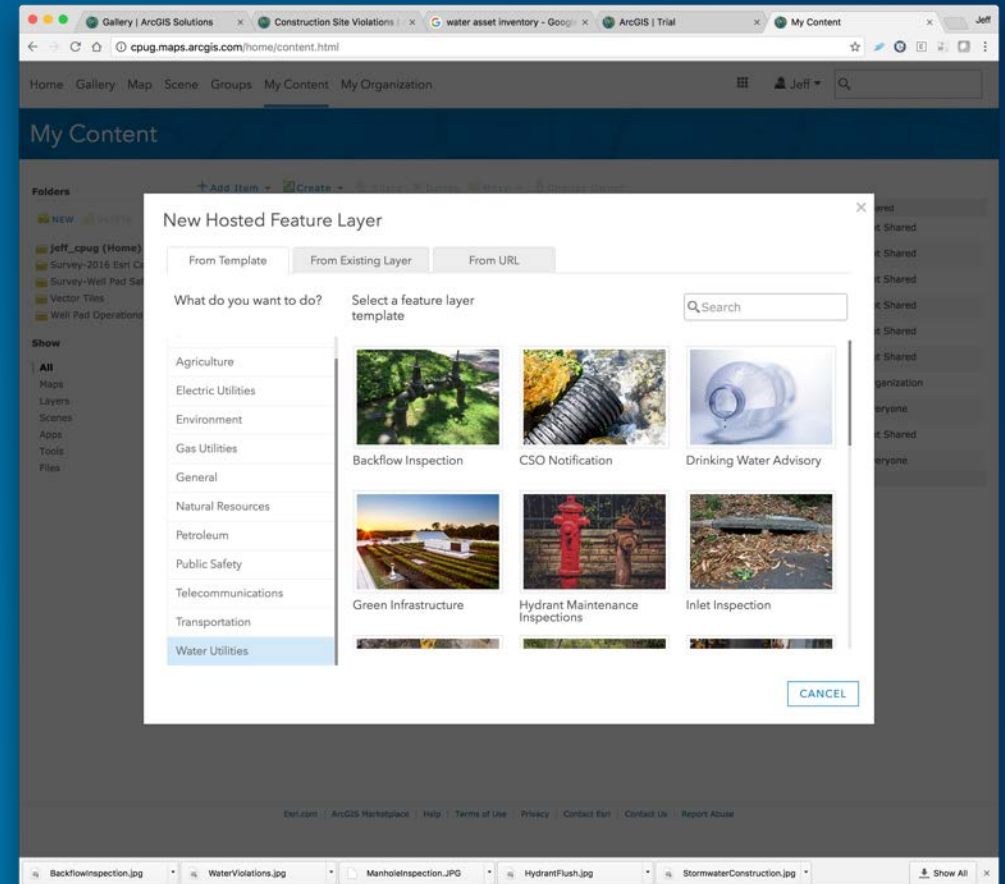
Map Viewer

Step 2

Create and Share Web Maps

Collector for ArcGIS | Create Hosted Feature Layer

- **Empty Using Templates**
 - My Contents -> Create Feature Layer
 - Choose layers, extent, name
- **Using ArcGIS Pro or ArcMap**
 - Copies existing content in layers
 - Author schema in geodatabase
 - *Only way to publish relationships
- **NOTE:**
 - You can publish “by reference” to a GIS Server as well.
 - Consider access to your GIS Server using devices*
 - [Download Water Solution Templates](#)



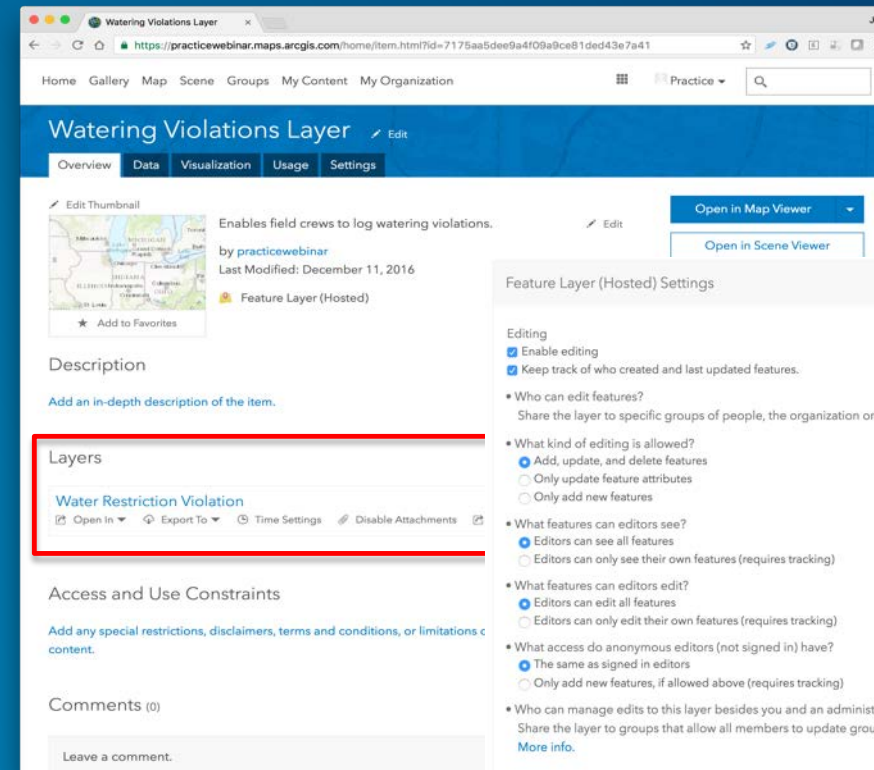
Collector for ArcGIS | Create Hosted Feature Layer Tips

- **Attachments**

- Attach Photos to features (per layer setting)

- **Editing Control**

- Access:
 - Kind of editing (Add, Update, Delete)
 - Edit others
- Editor Tracking
- Sync (offline support)



Overview

Settings

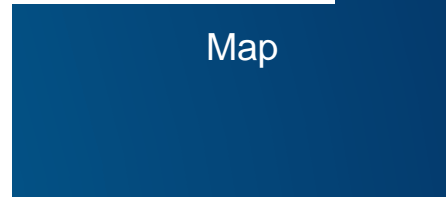
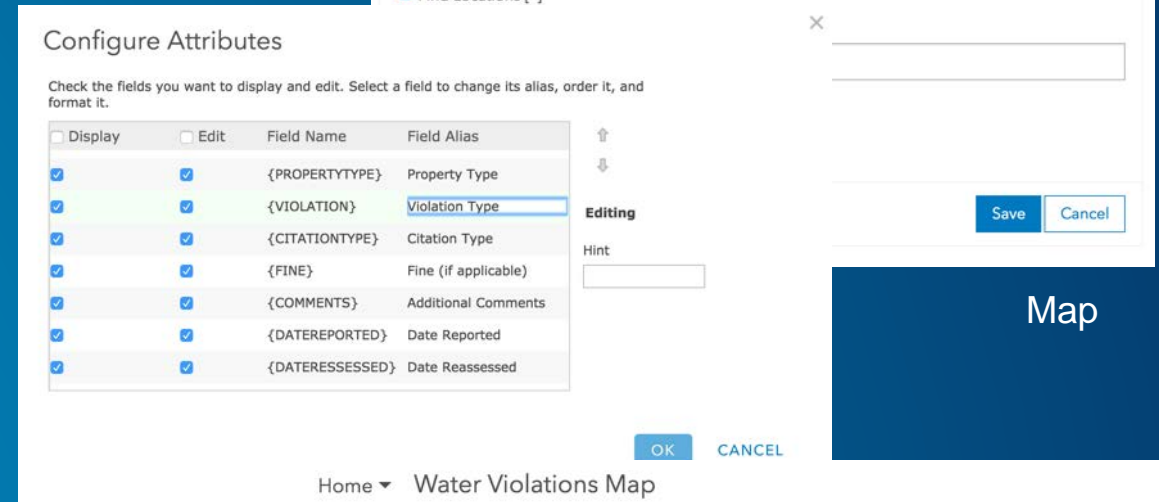
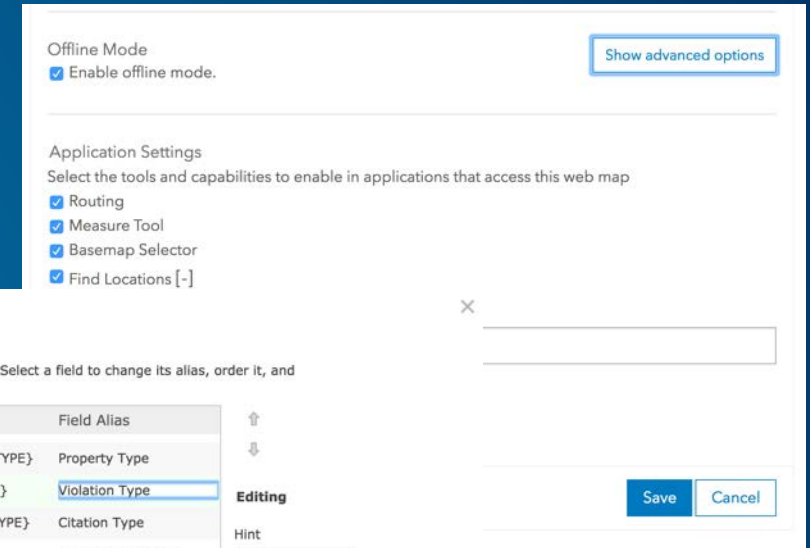
Collector for ArcGIS | Create and Share Web Map

- **Map Properties**

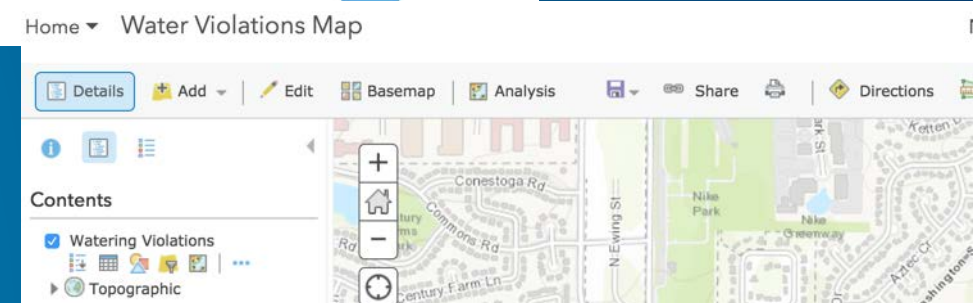
- Bookmarks
- Basemaps
- Application Settings
 - Tools
 - Search
- Offline Mode
 - Advanced Settings

- **Layer Properties**

- Rename Layer
- Set Popups (Field Order, Visibility, View/Edit)



Popup



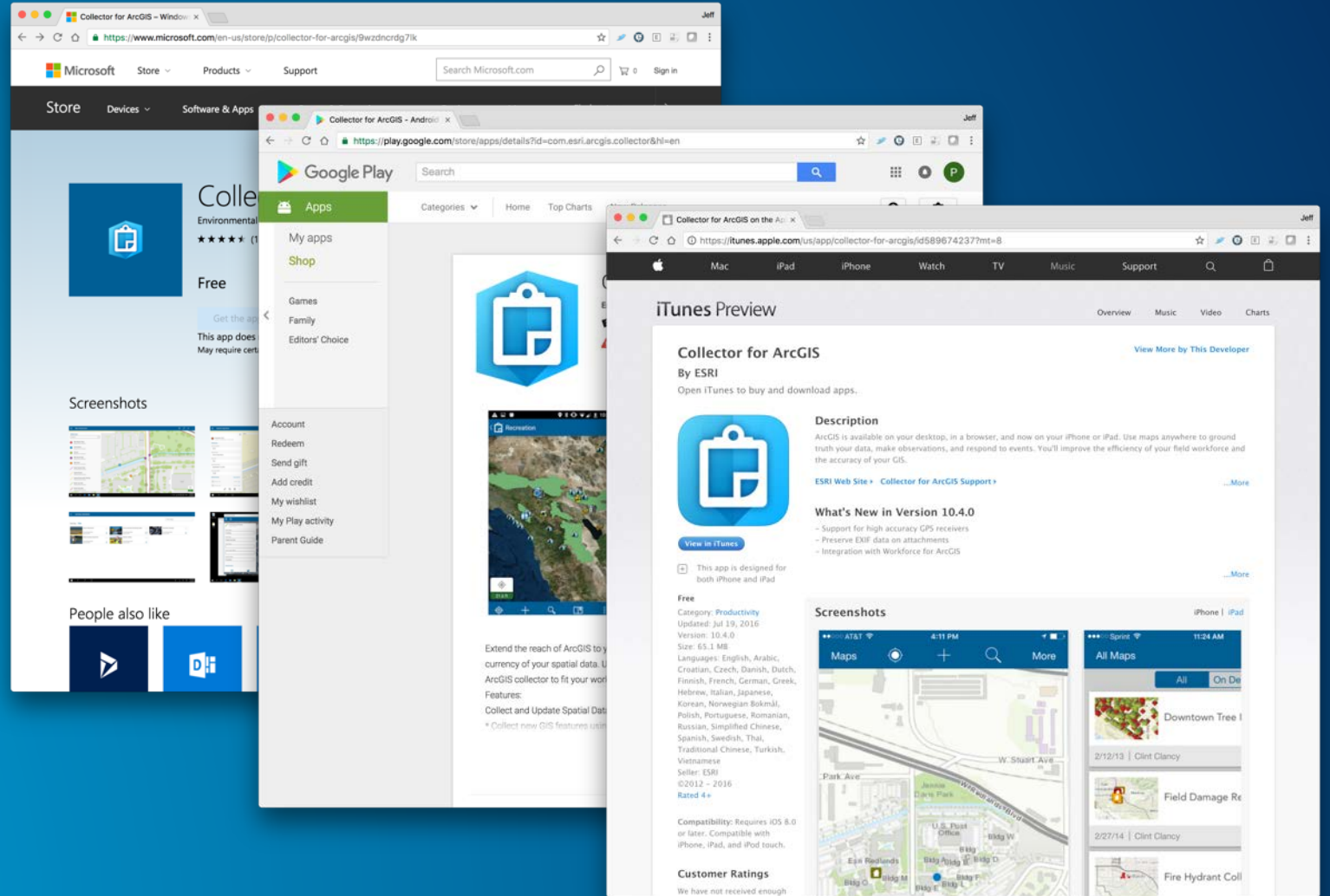
Share

Step 3

Download and Use Collector

Collector for ArcGIS | Download Collector and Sign In

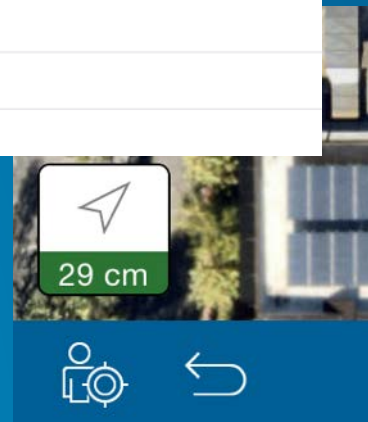
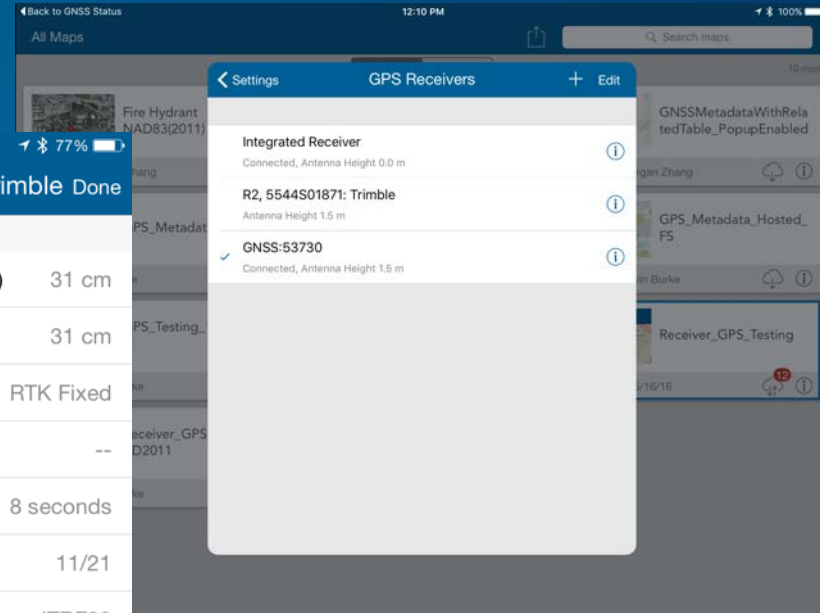
- iTunes
- Google Play
- Amazon App Store
- Windows Store
- Sign In on device
 - Discover shared maps
 - Download controlled by sync settings



Collector for ArcGIS | Collector Tips - GPS

- Location Provider
 - Located in App Settings
 - Support for
 - Integrated receivers
 - Bluetooth receivers (or serial on Windows)
 - Connect to named receiver
 - Specify antenna height
- Location Profile (RTK)
 - Located in App Settings
 - Set up Datum Transformation

Updated just now	
Horizontal Accuracy (RMS)	31 cm
Vertical Accuracy (RMS)	31 cm
Fix Type	RTK Fixed
Station ID	--
Correction Age	8 seconds
Satellites (Used/Visible)	11/21
Correction Profile	ITRF08



- iOS White Listed Providers:
- Trimble R1/R2, Eos Positioning
 - Geneq iSxBlue, CHC
 - Bad-Elf
 - *DualGPS, *Garmin GLO
 - Aman NMEA-BT Adapter

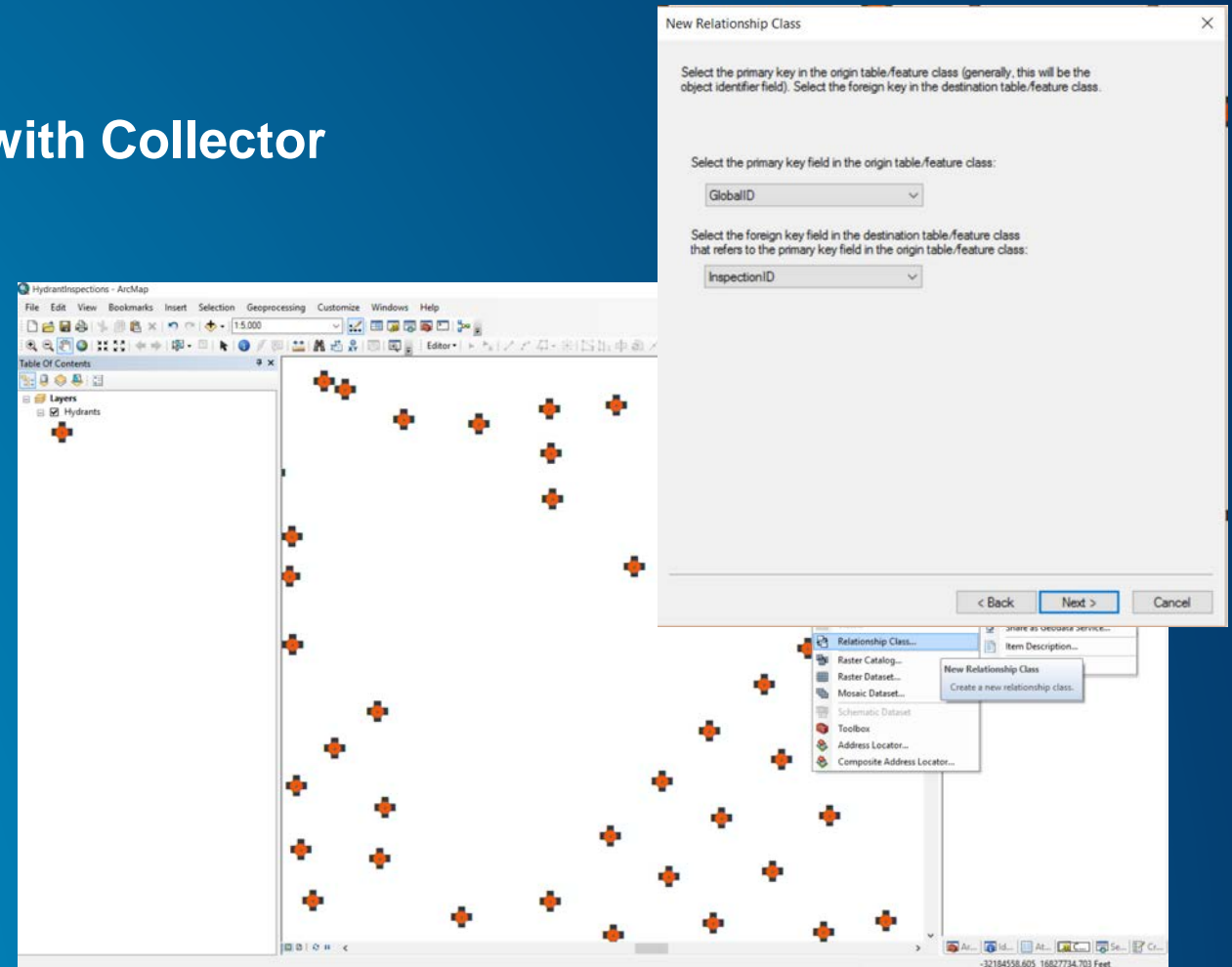
Collector for ArcGIS | Bonus Content

- **Creating Relationship Classes for use with Collector**

- 1:M relationships supported
- Feature to Table
- Feature to Feature
- 3 relationships deep (Hydrant > Inspection > Violation)

- **Tips**

- System Maintained Relationships
GlobalID > GUID



Collector for ArcGIS | Bonus Content

- Publishing from ArcGIS Desktop to ArcGIS Online

