



SGC Engineering LLC  
A Lloyd's Register Company

Andrew Land

## Going Mobile With ArcGIS Online



Collector



Explorer



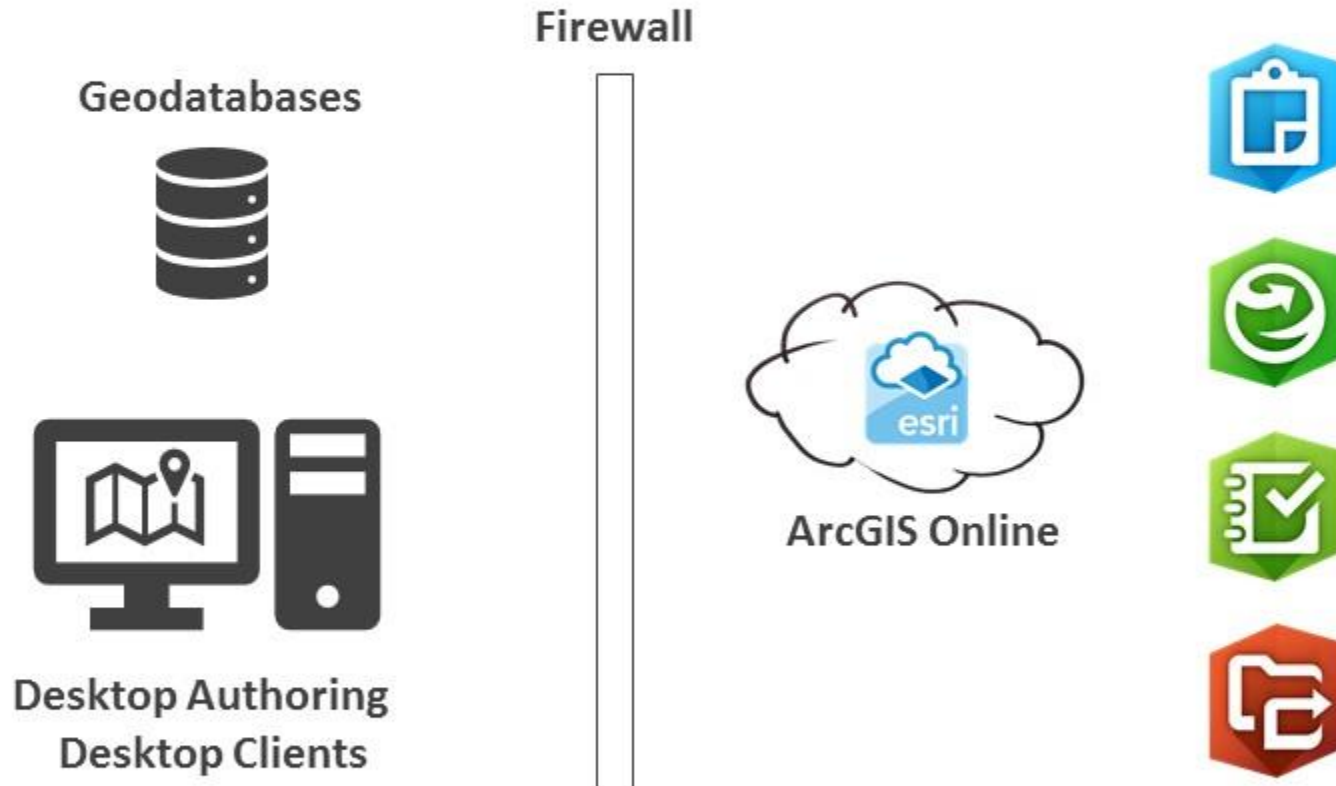
Survey123



Workforce

How do You Implement ArcGIS Online?

## Local Data Sources with ArcGIS Online



Desktop Authoring  
Desktop Clients



ArcGIS Enterprise

Firewall



DMZ



Web  
Server



ArcGIS Online



How do You Implement ArcGIS Online?

**ArcGIS Enterprise** with  
**ArcGIS Online**

How do You Implement ArcGIS Online?

# ArcGIS Enterprise with Portal for ArcGIS



Desktop Authoring  
Desktop Clients



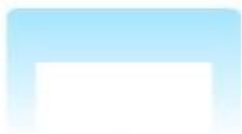
ArcGIS Enterprise

Firewall



VPN





Collector

Live  
Maps



Offline  
Support



GNSS + RTK  
Locations



Related  
Tables



Dynamic  
Labels



Edit  
Records



Create  
Mark-Ups



## Implementation Notes

- Use for Creating and Editing Data
- Offline Maps Require In-App Download
- Offline Maps Require Cached Basemaps
- Basemaps Can Be Side Loaded
- Customizable Sync Settings
- GNSS + RTK GPS Has Caveats
- Know Your Source Datums (GPS + Map)
- Labeling Requires Tile Caches
- Quartz Re-Build Coming in 2018



## Explorer



## Implementation Notes

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- Use for Viewing Maps and Data
- Offline Maps Require MMPK's
- MMPK's Can Be In-App Downloaded
- MMPK's Can Be Sideloaded
- MMPK's Can Be Deployed via AGOL
- Mark-Ups Can Be Shared
- Mark-Up Layers Are Map Agnostic
- Use Project-Based Mark-Up Layers
- Quartz Android Build in Beta



Live  
Maps



No Map-Based  
Interaction

Offline  
Support



GNSS + RTK  
Locations



Related  
Tables



Dynamic  
Labels



Edit  
Records



Add New Table  
Records Only

Create  
Mark-Ups



Survey123

AT&T 2:03 PM 39%

Flow Tests

Date Tested  
Date

Time Tested

Performed By

► Flow Hydrant #1

► Flow Hydrant #2

► Flow Hydrant #3

► Residual Hydrant

Total Flow  
0

Desired Residual PSI

Calculated Flow

Notes

## Implementation Notes

- Highly Customizable Data Collection Forms
- Supports Logic-Based Forms
- Supports Pre-Loading Data
- Supports Complex Calculations
- Supports Casting Data Types
- Has Reporting Solutions
- Inherently Offline
- Submit Forms Results as New Locations
- Or...Submit Form Results to Related Tables



# Workforce

**Live Maps**



Offline Support



GNSS + RTK Locations



Related Tables



**Dynamic Labels**

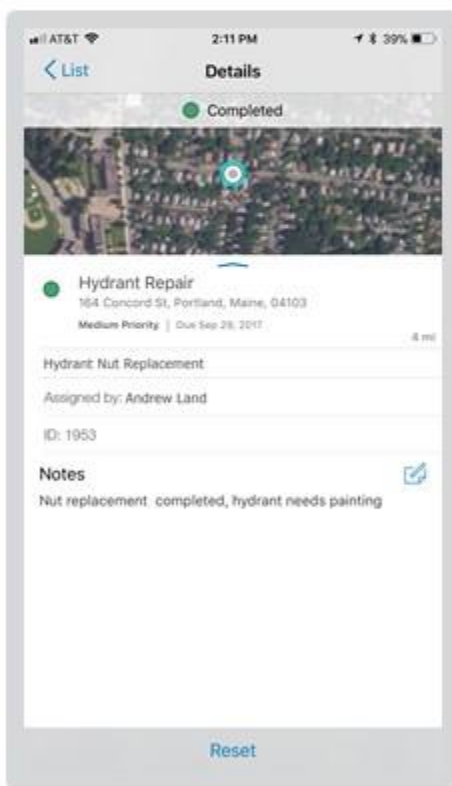


**Edit Records**



Add Worker Comments Only

Create Mark-Ups



## Implementation Notes

- Simple Task Management Solution
- Requires Dispatchers and Workers
- Dispatchers Dispatch via Browser
- Workers Receive Assignments via App
- Assignment Form Semi-Customizable
- Supports Assignment Attachments
- Supports Adding Field Notes to Assignments
- Customizable Dispatcher and Worker Maps
- Use Workforce Services in Other Maps





- Open Survey123 Forms From Collector
- Pre-populate Survey123 Form Fields
- Submit Results From Survey123 to Related Tables



## Collector

Map Details

Location  
Lat: 43.43003138° Long: -70.77171675°  
Edited by gisma\_swd on 8/7/17 at 8:22 AM

**Hydrant ID: 300**

Town: Sanford  
Make:  
Location: Emery St, Near Main St  
Ownership: Public  
Status: Active

[Perform Flow Test](#)

Hydrant Inspections

View >  
New >

Hydrant Flow Tests

View >  
New >

## Survey123

Flow Tests

Flow Hydrant #3

Residual Hydrant

Residual Hydrant ID (GIS)  
Numbers only, please use 9999 for Gauges  
300

Location  
If a location is not provided, please confirm the Hydrant ID is correct, or provide a location  
Emery St Near Main St

Static PSI

Residual PSI

Total Flow  
0

Desired Residual PSI

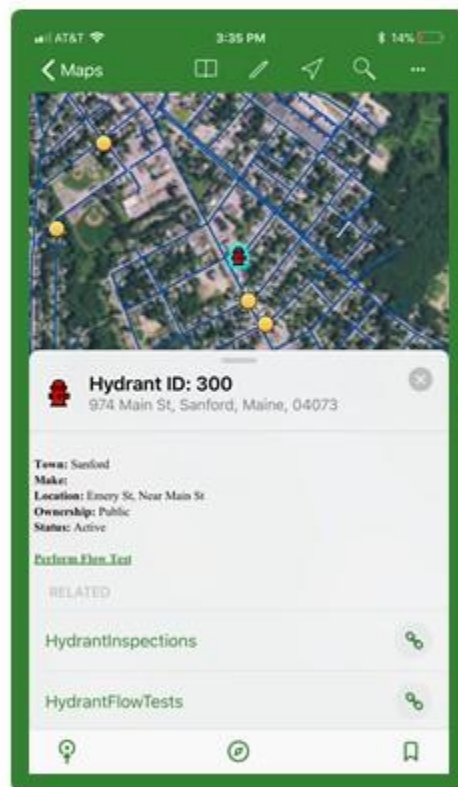
Calculated Flow



- Open Survey123 Forms From Explorer
- Pre-populate Survey123 Form Fields
- Submit Results From Survey123 to Related Tables



































## Explorer



## Survey123



	Live Maps	Offline Support	GNSS + RTK Locations	Related Tables	Dynamic Labels	Edit Records	Create Mark-Ups
<b>Collector</b> 							
<b>Explorer</b> 							
<b>Survey123</b> 	 No Map-Based Interaction					 Add New Table Records Only	
<b>Workforce</b> 						 Add Worker Comments Only	



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Going Mobile With ArcGIS Online

# Thanks!



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