

National Alliance of Preservation Commissions

CRSurveyor Field Maps Deployment Solution

Louisiana Administrator Guide March 2021

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Change Log

1/2020	Doreen Groth	Draft Version
2/2020	Emerson Chew	Updates from Pilot Test
2/2021	Slade Nunnery	Updates to Generic Version for all entities



Overview

The CRSurveyor Collector cultural resource survey tool is designed to help your organization survey cultural resources digitally. This solution allows a survey team to take phones or tablets in the field and accurately capture location and specific details about historic sites. The data is saved into a data structure that matches the National Park Service cultural resource standards and catalogs many National Register required fields. This data can be collected offline and 'synced' when the surveyor obtains connectivity.

The solution uses the Esri ArcGIS platform and was designed to collect field data using the ESRI Field Maps ArcGIS Application. The data and maps are stored in the Esri cloud-based ArcGIS Online platform. Your organization has licenses for ArcGIS Online to utilize the solution.

This document provides an overview of the modifications made and the deployment to your ArcGIS Online Organization.

Understanding the Solution

Cultural Resource Database

The Master Geodatabase was created in a joint effort between the National Alliance of Preservation Commissions (NAPC), the National Park Services (NPS), and GISinc and is meant to manage and maintain point and polygon features representing historic buildings.

Points or Polygons?

The goal is to provide a choice to a Community to collect in either point or polygon format. Both schemas are identical. Both Point and Polygon feature layers are available in the deployment.

Schema Change

The Point Master Geodatabase was downloaded from NAPC's ArcGIS Online Organization. Using ArcGIS Pro a schema change could be conducted based on your organizations request.



The following table lists the changes made to the Master Geodatabase Schema:

Action	(Table) Field	Requirement	Domain	Default Value
Add	(Buildings) County	Not Required	N/A	N/A
Field				
Add	(Buildings)	Not Required	N/A	N/A
Field	Identification Number			
Add	(Structure)Elevated	Not Required	Yes, No, Unknown	N/A
Field				
Add	(Structure)	Not Required	Pre-1800,1800-	N/A
Field	Approximate Date of		1900,1901-2000,2001-	
	Elevation		Present, Unknown	

Domains

Domains were modified in ArcGIS Pro from the Domains view based on the client's request and have been applied to the point feature and associated tables.

For more information: <u>https://pro.arcgis.com/en/pro-app/help/data/geodatabases/overview/create-modify-and-delete-domains.htm</u>

Subtypes

Subtypes and associated domains have been configured for the Cladding table – they can be accessed in Prousing the Subtypes view.

For more information: https://pro.arcgis.com/en/pro-app/help/data/geodatabases/overview/an-overview-of-subtypes.htm

Relationships

The *Building* point feature is related to a series of tables that hold additional information about the features. Relationships between the features and tables are based on **GlobalID** on the feature and another **GUID** field (**CR_ID**) on each related table.



Figure 1: Relationship Details

Ci	irrent Layer	Buildi	ngs (PilotP	pint)	*					
4	Visible	Read On	ly Field N	lame	Alias			Data Typ	e 🗸 Allow	w NÜL
	\checkmark	1	OBJECT	TID	OBJECTI	D		Object ID		
	1		SHAPE		SHAPE			Geometry	/	7
	1	1	Globall	D	GlobalID			Global ID		
	\checkmark		RES_CA	Т	Resource	Туре		Text		
	\checkmark		ADDRE	SS	Address	from Imported Da	ata	Text		1
				✓ Relat	ionship					
				Relat	ionship Class	Buildings_Chimr	ney			1
				Туре		Simple				
				Card	inality	One to many				
				Notifi	ication	None (no messi	ages propagated)			
				Origin	n Name	Buildings				
				Origi	n Primary Key	GlobalID				
			-	-> Origi	n Foreign Key	CR ID				
		/		Desti	nation Name	Chimney				
	/									
	📄 Cata	log 🔣	PilotPoint		PilotPoly	Fields: Bui	ildings (PilotPoint)	Fiel	ds: Chimr	nev 3
	Current	Layer	Data Sou	rce						
	⊿ Field	Name	Alias		Data Type	Allow NULL	Domain	Default	Length	
	OBJE	CTID			Object ID					
	CHIN	M_MAT	Chimney N	Aaterial	Text	1	dChimneyMaterials		25	
	CHIN	I_FEAT	Chimney F	eatures	Text	~	dChimneyFeature		25	
	CHIN	ID (Chimney II)	Text	1			50	
	CHIN	A_TYPE	Chimney L	ocation	Text	1	dChim_Type		50	
		A COUNT	Chimney C	ount	Short	1				
	CHIN				Text	2	dLocation		50	
	CHIN	A_LOC 0	Chimney L	ocation	TEXL					
	CHIN CHIN creat	4_LOC (Chimney L created_us	ocation er	Text	2			255	
	CHIN CHIN creat creat	4_LOC (ed_user (ed_date (Chimney L created_us created_da	ocation er te	Text Date	2			255	
	CHIN CHIN creat creat	A_LOC (ed_user (ed_date (edited_user	Chimney L created_us created_da ast_edited	ocation er te _user	Text Date Text				255	

Publish Hosted Feature Layer to Organizational AGO

Preparing Destination (Client ArcGIS Online) Site

Chimney/Flue Notes Text

Cultural Resource ID Guid

CHIM_DESC

CR_ID

A home folder for the solution was created to organizations AGO to hold the feature layers, web maps and dashboard.

500



Figure 3: Home folder called Historic Buildings

Catalog	* † ×
Project Portal Favorites	≡
우 📯 🚓 🛖 合 🝙	
My Content	
\bigcirc \bigtriangleup \boxdot \downarrow $=$ \bigtriangledown Search	. م
Archive	
📔 Backup	
CRSurveyor Architecture Master	
CRSurveyor Disaster Response	
🧮 To Be Deleted	

Publishing Hosted Feature Layer to the Community AGO (ArcGIS Pro)

To successfully edit and collect data, a hosted feature layer for the historic buildings and related tables is needed. From the ArcGIS Pro Ribbon Select Share | Web Layer.

Fig	ure 4: P	ublishing	to AGO					Share As Web Layer ? • 9	×
lys	is	View	Edit	Ima	agery	Share		General Configuration Content Item Details	
b	Web	Web	Locator	- E Web	Jobs	Data	Project	Name Resource Summary Historic Resource	
p	Layer	Style -	1 Web La	Tool *	Status	Stores Manage	lemplate	Tags NAPC × Layer Type 0	
199		Overw	rite Web	Layer				Feature Tile Vector Tile Location Ender	
								Share with Finish Sharing	Ŧ

The Service was named "Resource" and published to the Historic buildings folder.



Prevent Deletion

We checked "Prevent this item from being accidentally deleted." In the settings and marked the status for the hosted feature as authoritative.

Figure 3: Feature Layer Settings Resource Overview Data General Feature Layer (hosted) Save Cancel General Save Cancel Cancel Content Status Authoritative This item is marked as authoritative. Undo Delete Protection Prevent this item from being accidentally deleted. Delete Item

Enable Editing and Editor Tracking

Feature Layer (hosted)

Editing Enable editing. Keep track of created and updated features. 🕑 Keep track of who created and last updated features. 🛃 Enable Sync (required for offline use and collaboration). • Who can edit features? Share the layer to specific groups of people, the organization or publicly via the Share button on the Overview tab. This layer is not shared. • What kind of editing is allowed? Add, update, and delete features Add and update features Add features Update features Update attributes only • What features can editors see? Editors can see all features Editors can only see their own features (requires tracking)

Under the setting of the hosted feature layer editing was enabled as well as editor tracking. Capturing this information adds a total of 4 additional fields to the hosted feature layer and all related tables. The editor's name and the date are captured automatically - therefor it is best to hide those field in the Field Maps Web Map.



Downloading Hosted Feature Layer from AGO

In the event the hosted feature layer needs to be exported from AGO, the following steps should be taken to ensure the attachments and all related tables come through. Please NOTE: If this file geodatabase needs to overwrite the existing hosted feature layer, take great caution. In some events overwriting the hosted feature layer can lead to broken related tables and popups. Proceed with caution if the need to overwrite arises.

- 1. Navigate to the authoritative Hosted Feature Layer
- 2. In the overview section select Export Data | Export to FGDB

Open ir	n Map Viewer	~
Оре	n in Scene Viewer	
Open ir	n ArcGIS Desktop 🗸	
	Publish ∨	
Cr	eate View Layer	
E	xport Data 🗸	
U	Export to Shapefile	
	Export to CSV file	
	Export to KML	
	Export to Excel	
	Export to FGDB	

Figure 2 Export to File Geodatabase

3. Give the File Geodatabase a name and export it. This will produce a new item in your Content—a File Geodatabase.

Export to File Geodatabase	Х
Title:	A
Resource_Download_FileGDB	
Tags:	
Resource ×	
Add tags	
Summary:	
Enter a description.	
Save in folder:	
Historic Buildings	r
	•

Figure 3. Export to File Geodatabase

- 4. After exporting select the File Geodatabase in AGO and download.
- 5. This will bring the file geodatabase down to your local workstation.
- 6. Attachments and relationships will persist in the File GDB.

Understanding ArcGIS Online Content

Hosted Feature Layers

The data for this solution will be hosted in your organizations ArcGIS Online account. The data will be managed by AGO.

More information on Hosted Feature layers: <u>https://doc.arcgis.com/en/arcgis-online/manage-data/hosted-web-layers.htm</u>

Figure 3: Component Data for the NAPC solution

Content		My Content	My Favorites	My Groups	My Organiza	tion	Living Atlas
〒 Add Item ① Create	arch CRSurveyor Architecture Master				🖬 Table 📃	Date Mod	ified Filter
Folders E ⁺ 1 - 7 of 7 in	CRSurveyor Architecture Master						
Q Filter folders Title	Document was last saved: 15	5m ago				Modified	•
All My Content	RSurveyor Architecture Polygon Master	Feature Layer (hosted)	æ	☆ …	Dec 16, 2	020
GISi □ Cf	RSurveyor Architecture Polygon Master	File Geodatabase		ô	☆…	Dec 16, 2	020
Archive	RSurveyor Architecture Points Maser	Feature Layer (hosted))	÷	☆ …	Dec 16, 2	020
CRSurveyor Architecture	RSurveyor Architecture Points Maser	File Geodatabase		ô	☆ …	Dec 16, 2	020
Master	RSurveyor Architecture Map for Collector oints)	Web Map		ů	合…	Dec 16, 2	020
🗌 🖪 G	RSurveyor Architecture - Map for Dashboard	Web Map		ů	☆ …	Dec 16, 2	020
Filters	RSurveyor Architecture - Map for Collection olygon)	Web Map		ů	습 …	Dec 16, 2	020
Maps Layers Scenes Apps Tools							

Components of the NAPC Solution

The CRSurveyor Architecture Master and CRSurveyor Disaster Response folders holds all the components of the NAPC solution. Including the hosted feature service, maps for ArcGIS Field Maps and Dashboard for ArcGIS. The web maps are the basis for the Field Maps Application and the dashboard and hold both the Resource feature layer, the related tables (chimneys, fences, cladding, etc) and a base map. To ensure access to the application in the Esri Field Maps mobile application, all components must be shared to a group of which the user is a member.

Naming Conventions

We used the following best practice:

- Use short but meaningful names.
- Do not rely on the folder to identify items. Just because the map is in the Field Maps folder does not mean it won't be moved some day. Include all meaningful information in the item name.



- There are multiple web maps in each folder. Each serves a different purpose and has a different configuration. It is best practice to always include the destination of your web map in the name, so it is clear which application is using that web map:
 - Dashboard Map consumed by the dashboard
 - Field Maps Map consumed by Field Maps

Backing Up and Deleting

Other folders have been created for content backup and To Be Deleted. It is very important to keep content organized as you maintain the project.

Archive	- H
🔁 Backup	
CRSurveyor Architecture Master	
CRSurveyor Disaster Response	
🗎 To Be Deleted	-

Move items to To Be Deleted and Backups as you go.

\Backups

It is highly recommended to create a new backup anytime you make changes to the Web Map.

- Do so after you verify it is working.
- Backups are created by "Save As"

\Marked for Deletion

Always move items to **\To Be Deleted** rather than deleting so that you can verify they are truly no longer needed.

How To: Configure Web Maps for Field Maps

Preparing Maps for Disconnected Editing



If your field crews will not have internet or wifi, they may want to utilize the "offline" function of ArcGIS Field Maps. This requires a few key steps to authoring your map for offline use to allow data collectors to view, collect, and update features when disconnected from the Internet. Once reconnected, data collectors can synchronize with your map, send any updates they have, and get map updates from other collectors. In Field Maps, an offline option appears on maps authored to meet the offline requirements. Data collectors can go offline with maps hosted in your ArcGIS organization if they are configured for offline use.

You have the following two options for taking a map offline. Some apps may support one or the other, or both.

- On demand—Field users can download any portion of the map whenever they need it. The field user specifies the area they want to take offline along with the details of the basemap required.
- <u>Create map areas</u>—Map authors can create map areas to package data for specific areas ahead of time. Map areas speed up and simplify the map download process for field workers.

Key steps are outlined in the Esri help documents: https://doc.arcgis.com/en/field-maps/ios/help/prepare-maps-for-download.htm

https://www.esri.com/content/dam/esrisites/en-us/media/pdf/implementation-guides/take-yourweb-maps-offline-field-maps.pdf

Offline, Sync and Editing Settings

Offline	
Enabling offline mode allows this map to be downloaded and used in locations where there may be no in mode is enabled, a user can download the map in apps that support offline workflows. Learn how.	nternet connectivity. When offline

Adding a Reference Layer Offline Download

A referenced layer from ArcGIS Server Manager can be added to the Field Maps application and downloaded using the following steps.

You can enable the following **types of map layers** for offline use:

- **Cached ArcGIS Server map services** (from ArcGIS Server 10.3 or later) and cached ArcGIS Server image services (from ArcGIS Server 10.5.1 or later)—Check the Allow clients to export cache tiles check box in Advanced Settings. See Available map and image cache properties in the ArcGIS Server help for more information.
- ArcGIS Server feature services (from ArcGIS Server 10.3 or later or, if using map areas, 10.6.1 or later)— Choose the Query and Sync options to enable offline use. If you want the data to be editable, also choose any combination of Create, Delete, and Update.
- Hosted feature layers—Check the Enable Sync check box on the Settings tab of the item page.
- Hosted tile layers—Check the Allow this layer to be downloaded and used in an offline map check box on the Settings tab of the item page.



- To determine whether vector hosted tile layers can be used offline in a specific ArcGIS app, see the app documentation.
- NOTE map services cannot be downloaded to go offline, they must match the above criteria

Sharing Field Maps

NAPC expressed the desire to share data with certain contractors or surveyors. For example, Surveyor A would not be able to see or collect data that Surveyor B would be collecting. We can accomplish this with the use of Hosted Feature Layer Views and Groups.

- 1. First, create the necessary groups for each surveyor/group/contractor. Invite the users who would need access to the group.
- 2. Navigate to the authoritative Hosted Feature Layer. In this case, it would be "Resource". From the list of options in the Overview section, select Create View Layer

Open in Map Viewer	~
Open in Scene Viewer	
Open in ArcGIS Desktop 🗸	
Publish 🗸	
Create View Layer	
Export Data 🗸	
Update Data 🗸	
Share	
Metadata	

- 3. Give the Hosted View Layer a name that makes sense and lines up with the group name.
- 4. Share the Hosted View Layer with the appropriate group.
- 5. We now need to ensure only edits that belong to the appropriate person/group are visible. Navigate to the Hosted View Layer and select Visualization.

Overview	Data	Visualization	Usage	Settings	

- 6. Select the Filter Button.
- 7. For the Filter, set the Editor to equal the appropriate person. This may require more than one set of expressions if there are multiple editors that belong to one group.

		+ Add another expression	Add a set
)isplay featur	es in the layer that match	the following expression	
Creator	is ∎	▼ test	
	APPLY FILTER	APPLY FILTER AND ZOOM TO	CLOSE

- 8. This will ensure that this hosted feature layer only shows up to the people who need to see it.
- 9. Create a web map with the hosted feature layer view in it.
- 10. Share that web map with the appropriate group.
- 11. Test in Field Maps to ensure edits are being shared correctly.

Configuring Field Maps Webmap Fields and Popups

Various components of a Field Maps configuration can be modified in ArcGIS Online including feature symbology, default zoom levels and bookmarks, and most importantly, feature and table pop-ups.

Feature and table Pop-ups configured in AGO or Portal determine what the end user sees in Field Maps, so maintaining these pop-ups is critical to maximizing the end user experience.

More information: https://doc.arcgis.com/en/arcgis-online/create-maps/configure-pop-ups.htm

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Inspired by

Location



• Change the order of fields in the Configure Pop-up menu; this changes the order of fields in Field Maps



Configure Attributes menu to change field visibility and editability:

Resource Type (RES_CAT) Address from Imported Data (ADDRESS) City or Town (CITY)	ث ج	Configu Check the Fel format 3,	re Attribute de you want to d'e	E'S play and edit. Select a fi	eid to change its alias, order	it, and
[State (STATE_CODE)	•	Display	() Edit	Field Name	Field Alias	1
Configure Attributes				(OBJECTID)	OBJECTIO	1.4
		10		(GlobelID)	GiobalD	
			8	[RES_CAT]	Resource Type	
		*	×	(ADORESS)	Address from Imported Data	
		8	8	(CITV)	City or Town	
		*	ж	(STATE_CODE)	State	
						41 - H

• While in the Configure Attributes Dialogue, the **Field Alias** can be configured. The Field Alias <u>does not</u> <u>alter the underlying schema</u>. It simply determines what field name the user will see in the field. This can be customized for each community.



Configur	e Attribute	es		
Check the field format it.	ls you want to dis	play and edit. Select a f	ield to change its alias, or	rder it,
🗌 Display	🗌 Edit	Field Name	Field Alias	
		{OBJECTID}	OBJECTID	
•	s.	{DATE}	Date of Addition	
		{ADD_TYPE}	Al <mark>teratio</mark> ns or Additions	

• Hints that provide additional information for the surveyor in the Field Maps app can be set here.

Configure Attributes

Check the fields you want to display and edit. Select a field to change its alias, order it, and format it.

🗌 Display	🔲 Edit	Field Name	Field Alias	Ŷ
¥	V	{NUM_STOR}	Number of Stories Above Ground (1, 1_5, 2 etc)	Editing
	I.	{ARCH_FORM}	Architectural Form	TextBox Type Single Line 👻
•	v	{ARCH_STYL}	Architectural Style	Hint
		{ARCH_DESC}	Architectural Description	Character limit - 255
_	_		Does the Resource	•
				OK CANCEL

Web Map Bookmarks

Bookmarks can be created and saved in the Web Maps. These will be available in the corresponding Field Maps Maps. Bookmarks can be a huge time saver for field users. Think about defining areas for field collection and creating bookmarks in the Field Maps web map.

Symbology

Using the Change Style dialog in ArcGIS Online or Portal, administrators can modify the appearance of the points collected in the field. Consider your basemap when picking your symbol. Use simple symbols and ensure contrast with the background.



More information: https://doc.arcgis.com/en/arcgis-online/create-maps/change-style.htm

1. For Web Map View Classic, Click the Change Style button



2. For Web Map Viewer Beta, Select Style from the right side panel after selecting layers on the left.



3. Once you're satisfied with changes to all features and tables, be sure to save your map.



4. Below is an example of where to save within Web Map Viewer Beta.





- 5. Verify the changes in Field Maps:
- 6. Open the Field Maps Application on a mobile device and choose the map you wish to view (Maps in Field Maps will have the same name as the shared maps in AGO) and verify your changes.

Attachments & Photos

Attachments (photos) are supported in Field Maps in both feature layers and related tables.

1. Enable / Disable Attachments in the feature layer's Details section:



Layers

Resource [2] Open In ∨	⊥ Export To ∨	(L) Time Settings	Disable Attachments	[] Service URL	🖹 Metadata

Tables

Additions	⊥ Export To ∨	Enable Attachments	[] Service URL	🖹 Metadata
Archaeology C Open In ~	_Areas_Signifi ⊥ Export To ∨	cance ∉ Enable Attachments	C Service URL	🖹 Metadata

2. Then make attachments visible by checking the box next to 'Show feature attachments as links' in the feature layer's Configure Pop-up dialog:



3. If enabled, attachments are always visible on related tables.



Downloading/Exporting Data & Related Attachments

*Please Note that exporting data to FGDB will keep any existing relationships between features and related tables.

Uploading and overwriting the hosted FGDB can impact related tables and table order which may break the web map and related data. In situations where it is necessary to download data from ArcGIS Online/Portal, it will be necessary to Append the data to the original FGDB in ArcGIS Pro and re-publish.

1. Download data from an ArcGIS Online/Portal feature layer using **Export Data** [Symbol] **Export to FGDB**

Downloading the full FGDB will maintain all related tables and attachments in the downloaded data.



2. Once the FGDB is created, click Download.





Creating Views

ArcGIS Online Hosted Views are useful when a different view of the data represented by a hosted feature layer is needed. This could be in the form of editor settings, styles or filters. Once you have a view, you can define which features or fields are available in the hosted feature layer view and share the view to groups whose members need access to that view of the data.

When you create a feature layer view, a new hosted feature layer item is added to Content. This new layer is a view of the data in the hosted feature layer, which means updates made to the data appear in the hosted feature layer and all of its hosted feature layer views. However, since the view is a separate layer, you can change properties and settings on this item separately from the hosted feature layer from which it is created. For example, you can allow members of your organization to edit the hosted feature layer but share a read-only feature layer view with the public.

Only the owner of a hosted feature layer can create a hosted feature layer view from the original layer. This is different than copying a layer, which can be done by non-owners and even public users.

In the below example, a separate view was needed to allow contractors to only see their data. To achieve this a hosted view was needed.

- 1. Select the Primary Hosted Feature Layer and pull up the item details.
- 2. Select Create View Layer, while in the Overview Tab



3. Give the View a title, tags as well as the location in which to save the new view.



- 4. **IMPORTANT**: Views inherit fields, schema, etc. from the primary hosted layer, but do not have editing or sync applied by default. To turn on, select the view and pull up the item details. Select Settings | and enable the following items:
 - a. Enable Editing
 - b. Enable Sync which allows for disconnected editing.

Enable Sync (required for offline use and collaboration).

• Who can edit features?

Share the layer to specific groups of people, the organization or public shared with: Lake Charles Harvey Grant

- What kind of editing is allowed?
 - 🖌 Add
 - Delete
 - 🖌 Update
 - Attributes and geometry
 - Attributes only
- 5. While making these changes, what kind of editing is allowed can also be altered to allow fine-grain tuning of who and what can be edited.
- 6. After the changes are made, save the Hosted View Layer.
- 7. Create a web map and add the view to the map. Be sure to share the hosted view layer and web map to the appropriate group. If a certain contractor is the only person who needs to view/edit, create a new group, and share the map and hosted view layer. Invite the contractor to the group.
- 8. To ensure the contractor only sees their edits create a filter that excludes all edits outside of the contractor editor.
 - a. Navigate to the view layer
 - b. Select the Visualization Tab which will open a map similar to the look and feel of a web map.
 - c. Select the Filter button and apply the filter to limit the data shown.
 - d. Save As New Layer.
 - e. This layer will now have a permanent filter applied.

Change the layer's default style, filter, pop-ups and labels.



Filter: Resource_Lake Charles

View Edit		
Editor is 'shahn_cei'		
REMOVE FILTER	CLOSE	



- 9. This can also be accomplished in the web map by applying the filter to the layer in the Map Table of Contents. This filter will reside in the web map only –not at the hosted feature layer view.
- 10. Finally, ensure the contractor can edit successfully and deploy.

Collecting Data using ArcGIS Field Maps

Field Crew Requirements

- Named user account in ArcGIS Online or Portal with Edit level access
- A download of native mobile app ArcGIS Field Maps

Download the Field Maps Application

The ArcGIS Field Maps App is available from most mobile application stores: (https://www.apple.com/ios/app-store/; https://play.google.com/store/apps/) Download the application and log in to your ArcGIS account (either ArcGIS Online or Enterprise ArcGIS for Portal sites).

Configuring Field Maps App in AGOL

1. Open the Field Maps App from the App button in AGOL



2. Select the web map you would like to configure from the map gallery

ArcGIS Field Maps Maps					Resources (SN) Slade
	Maps Q				
	My maps (5) Hidden (0) ————————————————————————————————————			국 Date Modified	
		CR Surveyor Disetter Response Polygon	CR Surveyor Architecture, Map for Cellector (Points)	CR Surveyor Architecture (Map for Dashboard)	Â
	CRSurveyor Disaster Response Map for Field Collection (Points) Master	CRSurveyor Disaster Response Map for Collector (Polygon) Master	CRSurveyor Architecture Map for Collector (Points)	CRSurveyor Architecture - Map for Dashboard	
	Updated Feb 12, 2021	Updated Dec 16, 2020	Updated Dec 16, 2020	Updated Dec 16, 2020	
	C 82	C &	C 6 &	C 6 2	
	CRSurveyor Architecture Map for Collector (Polygon) CRSurveyor Architecture Map				

3. Once you've selected the map, you can begin to adjust map settings, configure for offline use, and control sharing.

Maps > CRSurveyor Architecture Map for Colle...

_			
🖒 Overview	Overview		
Eg Content		CPS:unuour Architecture Man for Collector (Peinte)	
⇔ Offline		Map by slade.nunner/@gisinc.com_GISi	
🖸 Sharing	🥒 Change Thumbnail	Updated: Feb 12, 2021	
		Summary	
		CRSurveyor Architecture Map for Collector (Points)	
		Application	
		O Hide in Field Maps mobile	
		Offline status	
		✓ Offline enabled	
		Shared with	
		🔂 Organization	
		_	
		Edit	

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Inspired by Location

Re:



Collecting Data

More information https://www.esri.com/en-us/arcgis/products/arcgis-field-maps/overview

- 1. Open the map in Esri Field Maps
- 2. Related Tables are present in the map which need updating along with the point feature layer.
- 3. To collect point features, select the "+" icon which will drop a point based on your spatial location.



- 4. After the point has been placed, fill out the respective information in the table below and submit. Scroll down to expose the related tables.
- 5. Find the appropriate table and select the connected chain symbol. This will bring up another dialogue in which you can add further information about the survey point.





6. If you want to drop a point manually move the map to the appropriate location marked by the bullseye. This can be a bit counterintuitive. The map or background is being moved to the appropriate location; the point is not being moved. Enter the required attributes and submit the point.



7. If the point needs to be moved later, select the point. After making the selection, the point will have a blue halo around it.



8. Select the Pencil to begin editing the point. The bullseye will now be available. Move the point accordingly and select Update Point.



9. Fill out the appropriate attributes including any photos or attachments and Submit the point.

Go Offline in Field Maps

- 1. In the event, cell phone service isn't available, the web map can be downloaded.
- 2. Navigate to the web map and select the elipses icon next to it.
- 3. Select Add Offline Area.



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4. We will now "Choose our work area" Here we can define the extent we want to cover for our project. Zoom out or in to the area of interest.





Area 1 Level of detail: Small Building

Download Area

- 5. We can then choose our map detail. This will define how far we can zoom into the imagery and vector data. Keep in mind the more detail you request, the larger the download will be. Select the Map Detail Tab.
- 6. Select Download Area
- 7. The map will be downloaded to your device.
- 8. Once downloaded we can follow the same workflow for connected editing however all edits will be saved to our device.
- 9. After all edits are captured and the device is back within the internet or cell connectivity, a sync can be performed.



- 10. The pending edits should be displayed beside the download icon.
- 11. Select Sync to push all edits back to ArcGIS Online.

Offline Editing with Reference Layers

- 1. Offline editing with Dynamic Map Services is not supported. Dynamic map services do not support sync capability.
- 2. One possible workaround is to create two web maps.
 - a. The first map would have "_OfflineWebMap" appended to the end. It would not have dynamic map services included.
 - b. The second map would be "_ReferenceWebMap" which has referenced, dynamic map layers that cannot be downloaded.

Web Map for Dashboard

The Dashboard will show all collected points and their related information. The dashboard is interactive and will display data in real-time as they are collected.

