



NWCG

Geographic Information Management – Using the National Incident Feature Service, Standard Template

Introduction

Prerequisites:

- Must have an account and GISS role in the NIFC ArcGIS Online Organization
 - Request an account here:
https://docs.google.com/forms/d/e/1FAIpQLSdYM5TnbcMKUGiUSb98x1LpBcKfhclx0Hu-UtsG_82Cjlx7fw/viewform
- Must have GISS role in EGP
 - Request one here: <https://egp.nwccg.gov/egp/RequestAccount.aspx>
- Must read and understand the NIFC Org Rules of Behavior found [here](#) (updated February 2019)



Introduction

- **Workflow summary:**
 - Use the National Incident Feature Service Standard Template to create and share a web map for use in field data collection.
 - Create a copy of this map with editing disabled for Viewing only (optional)
 - Edit event data in ArcMap or ArcGIS Pro
 - Sync edits
- **To use this workflow for Training:**
 - Request an EGP account for the Test environment [here](#)
 - Use web map templates found in the [Training Resources Group](#)



Introduction

- ***What's New*** in the National Incident Feature Services
 - Additional Feature Classes
 - Accountable Property, Structure Triage, Label Point
 - Updates to the Event Point/Line/Polygon feature classes
 - Additional Field Categories, additional fields in point and line feature classes
 - Updates to the National Incident Feature Services hosted by EGP
 - Creation of *Collector Edit, View, and Repair* services to improve Collector workflow and better manage what edits can be made in the field
 - Creation of services for Structure Triage feature classes for View in Collector and Edit by GISS
 - Structure Triage and Accountable Property Survey123 templates

For details on all changes see this document:

<https://drive.google.com/open?id=1NkdllCy5DkpDoZoBTqVs9pCZeVqFNLjd>



Standard Workflow

- All templates are found in the Incident Resources Group
- This group can be accessed on the NIFC Org Home page:
<http://nifc.maps.arcgis.com/home/index.html>

For training use templates in [Training Resources Group](#)

Incident Resources

Overview | Content | Members

This group contains live data layers, web map templates, and documents for the current fire season.
owned by NIFC_Admin

Description

For all questions related to this material, please email wildfireresponse@firenet.gov

If you are experiencing trouble with any of these items, fill out a NIFC Org Support Request Form here: <https://goo.gl/hMf1Js>

Latest Content View All Group Content

Item Name	Author	Created	Updated	View Count
Approval Workflow - (3) Vie...	by NIFC_Admin	Created: Feb 24, 2017	Updated: Mar 22, 2018	View Count: 229
Approval Workflow - (2) SIT...	by NIFC_Admin	Created: Jan 30, 2017	Updated: Mar 22, 2018	View Count: 327
National Incident Feature Se...	by NIFC_Admin	Created: Mar 22, 2018	Updated: Mar 22, 2018	View Count: 10
National Incident Feature Se...	by NIFC_Admin	Created: Mar 22, 2018	Updated: Mar 22, 2018	View Count: 12
Incident Web Map Template	by NIFC_Admin	Created: Jan 30, 2017	Updated: Mar 22, 2018	View Count: 1,452
Suppression Repair Template	by NIFC_Admin	Created: Feb 24, 2017	Updated: Mar 22, 2018	View Count: 442
National Incident Feature Se...	by NIFC_Admin	Created: Mar 22, 2018	Updated: Mar 22, 2018	View Count: 13



Standard Workflow

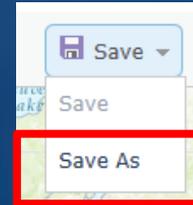
- From the web map Item Details page, open template in Map Viewer

The screenshot shows the ArcGIS Item Details page for a web map template. The title is "Incident Web Map Template" with an edit icon. The page has tabs for "Overview", "Usage", and "Settings". On the left, there is a thumbnail for the web map titled "Incident Resource Template" with a star icon and "Add to Favorites" text. The main description reads: "Create a copy (do a Save As) of this web map to quickly deploy AGOL/Collector for an active incident. [Template web map for the Standard Workflow.] Contains the National Incident Feature Service. (updated March 2019)". Below the description, it says "Web Map by NIFC_Admin" and "Created: Mar 25, 2019 Updated: Mar 25, 2019 View Count: 0". On the right side, there is a vertical menu with five options: "Open in Map Viewer" (highlighted with a red box), "Open in ArcGIS Desktop", "Create Presentation", "Create Web App", and "Share".

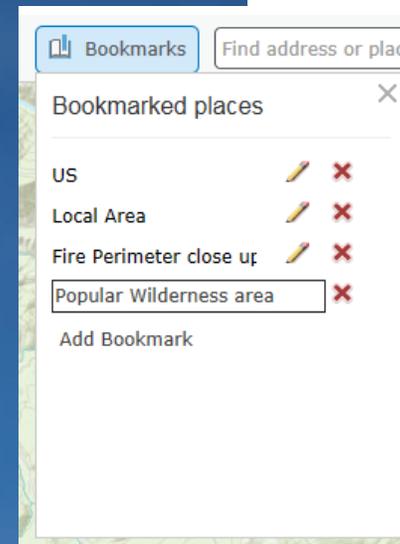


Standard Workflow

- In the web map:
 - First, and most important: **SAVE AS**
 - Name your map with the fire name, the map's purpose (e.g. "Collector"), and date
 - Zoom and set location bookmarks
 - Bookmarks carry over to the Collector field maps and allow field users the ability to zoom quickly to their area of interest
 - These are also useful for the web apps that link back to this web map

A screenshot of a 'Save Map' dialog box. It contains the following fields:

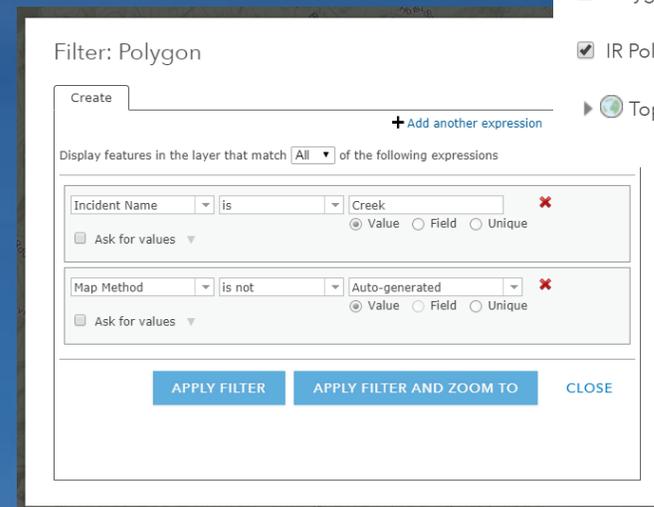
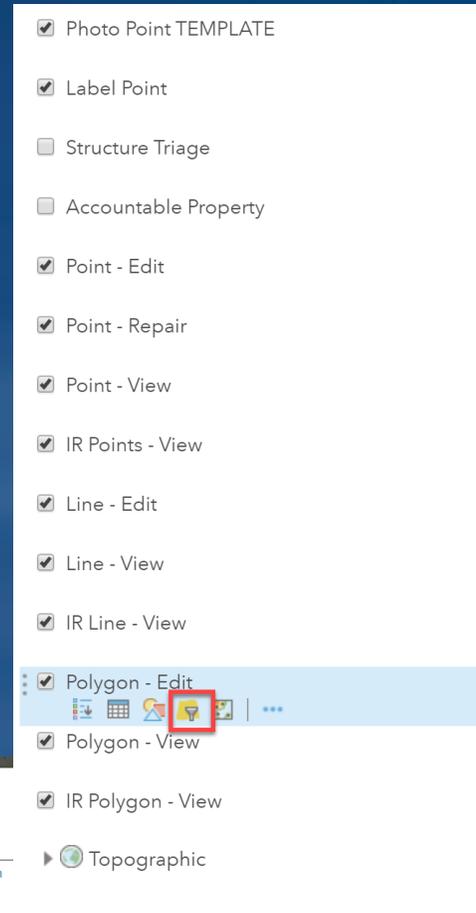
- Title: Creek Fire - Collector - 20190815
- Categories: + Assign Category
- Tags: Creek Fire x Add tags
- Summary: Creek Fire Collector Field Use Web Map x
- Save in folder: 2019 Creek Fire

At the bottom right, there are two buttons: 'SAVE MAP' and 'CANCEL'.

Standard Workflow

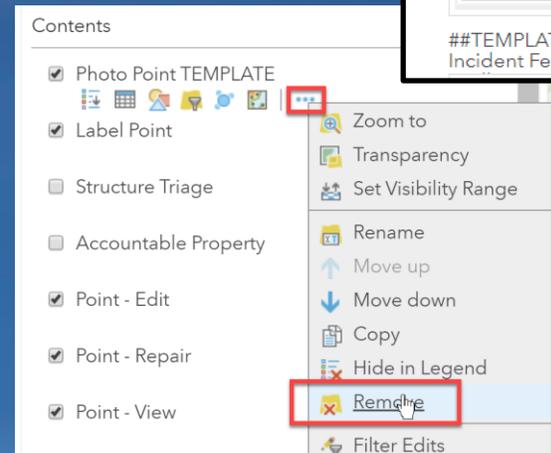
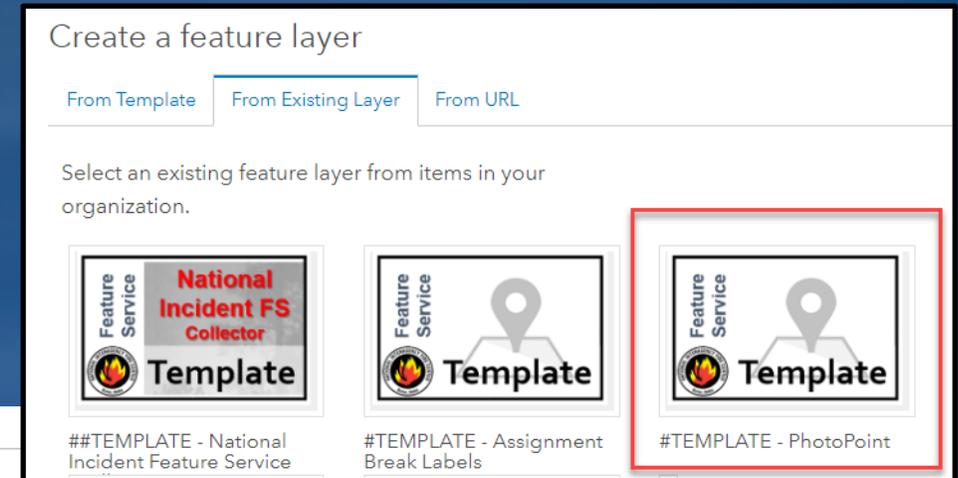
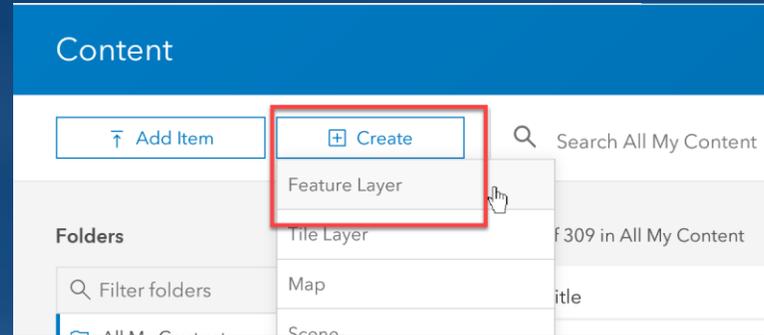
- In the web map (optional):
 - Create a display filter for features
 - To only display features for your incident
 - To NOT display auto-generated polygons from IRWIN**
 - This will carry over to the Collector field maps – make sure to not filter out important features

**New fire incidents in IRWIN auto-generate a triangle polygon based on the initial incident size. These can be filtered out.



Standard Workflow

- **Create a new Photo Point Feature Layer for your incident**
 - From the Content tab, click **Create > Feature Layer > From Existing > Search for #TEMPLATE PhotoPoint**
 - Name and save Layer then add to your Web Map; **Remove current (default) Photo Point feature service from the Web Map**



Standard Workflow

- In the web map:
 - Share the web map so it will be accessible to users
 - Share this map into the Mobile Editing group
 - Click OK on the Update Sharing dialog

Share

Choose who can view this map.

Currently, only you can view your map. Before you can link to it or embed it, you need to allow others to view your map.

Everyone (public)

National Interagency Fire Center

Members of these groups:

- Deployment Testing
- NIFC IMT - Archive
- NIFC IMT - Mobile Editing
- NIFC IMT - Public Information
- NIFC IMT - Viewer
- NIFC IMT - Working
- NIFC Org Training - Viewer

Update Sharing

These layers in the web map may not be visible to others because they are not shared in the same way as the web map.

Item	Owner
Photo Point TEMPLATE	NIFC_Admin
#TEST Event_CollectorView_v2	NIFC_Admin
#TEST	

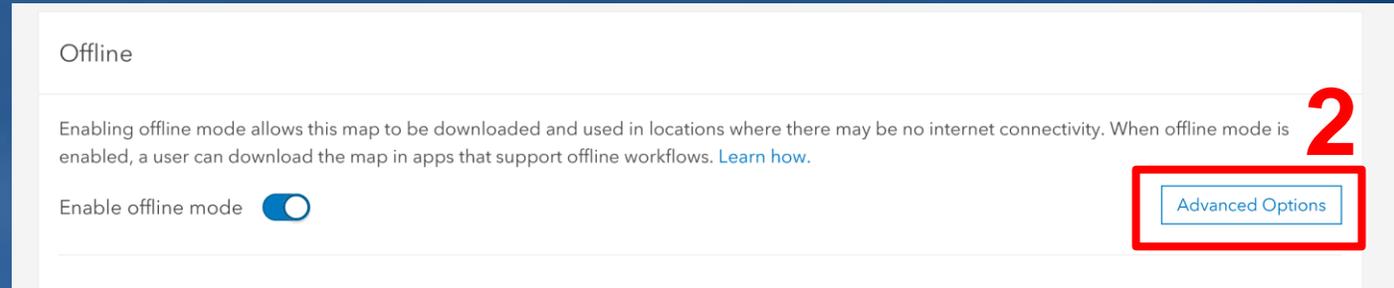
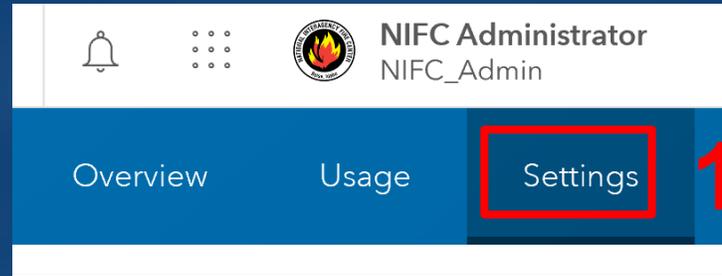
OK



Standard Workflow

- In the web map Item Details:

- Click on the Settings tab
- In the Offline Settings, click on “Advanced Options”



****To get to Item Details from your Web Map, in the About tab click on More Details**



Standard Workflow

- In the web map Item Details:

- In “Offline: Advanced Options”

- Uncheck the Attachments boxes under *both* Editable and Read-only layers

* This setting is better for field users who may have poor connectivity. During a sync, attachments will not be pulled from the server to the device, but only pushed out from their device to the server.

Control feature and attachment delivery. ⓘ

Choose what data and updates mobile devices get.

Editable features **3**

- Device will download and get updates to features and attachments.
- Device will download and get updates for features only.
- Device will never download or get updates for features.

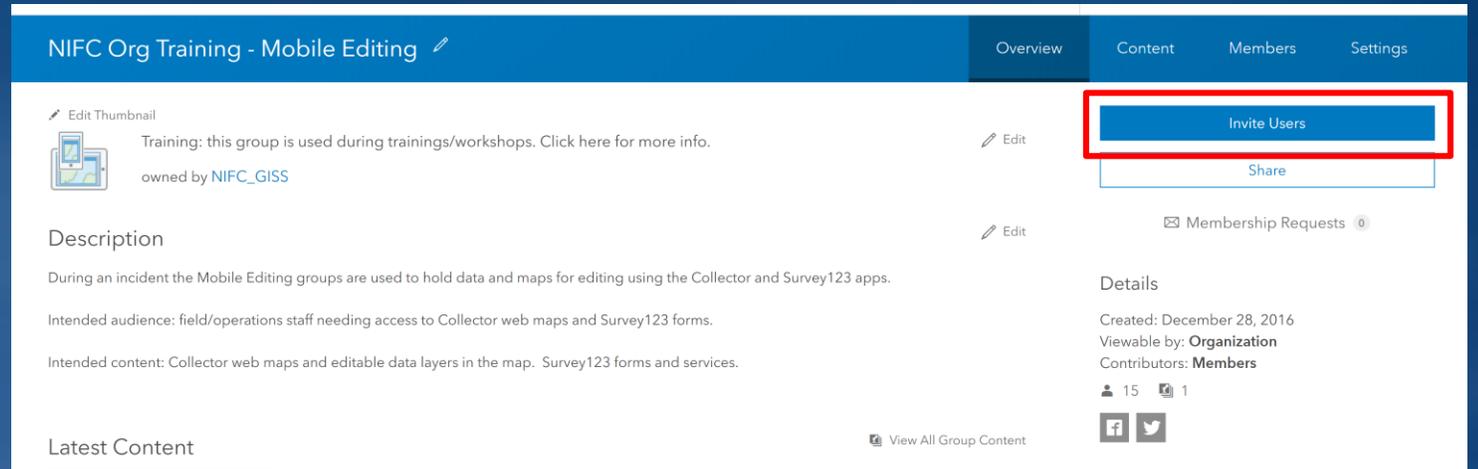
Read-only features

- Device will download and get updates to features and attachments.
- Device will download and get updates for features only.



Standard Workflow

- Open the Mobile Editing group that you shared your web map into
- Invite users into this group so they will be able to access the map from their mobile device



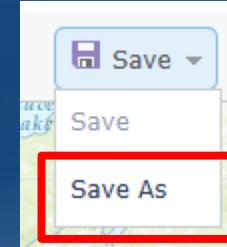
The screenshot shows the ArcGIS Online interface for a group named "NIFC Org Training - Mobile Editing". The page has a blue header with navigation tabs: Overview, Content, Members, and Settings. The "Members" tab is active, and the "Invite Users" button is highlighted with a red rectangular box. Below the header, there is a description of the group, its intended audience, and content. On the right side, there are details about the group's creation date, visibility, and contributors, along with social media sharing icons.



Standard Workflow

- **Optional – Create View Only Web Map**

- Open the web map you just created
- Save As another copy of this map just for Viewers



Save Map

Title:

Categories: [+ Assign Category](#)

Tags:

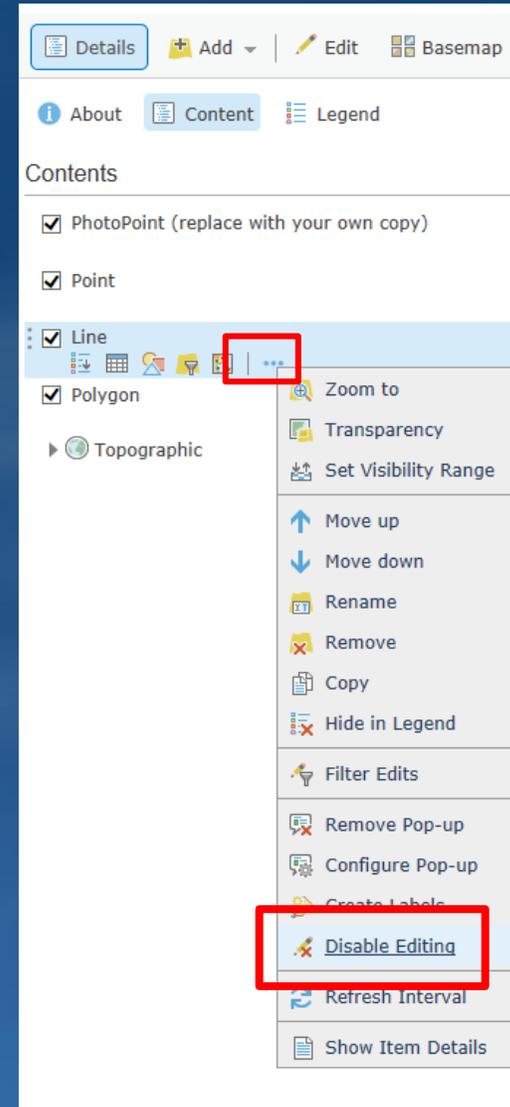
Summary:

Save in folder:



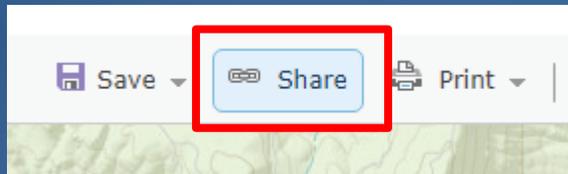
Standard Workflow

- For the Viewer web map, click the trailing dots by each layer and disable editing
- Keep in mind that Viewers will see features listed as Feature Status = “Proposed”



Standard Workflow

- Share this map with the Viewer Group, and then add users who need View only status to this group.



Share

Choose who can view this map.

Your map is currently shared with these people.

- Everyone (public)
- National Interagency Fire Center
- Members of these groups:
 - Deployment Testing
 - NIFC IMT - Archive
 - NIFC IMT - Mobile Editing
 - NIFC IMT - Public Information
 - NIFC IMT - Viewer
 - NIFC IMT - Working
 - NIFC Org Training - Viewer

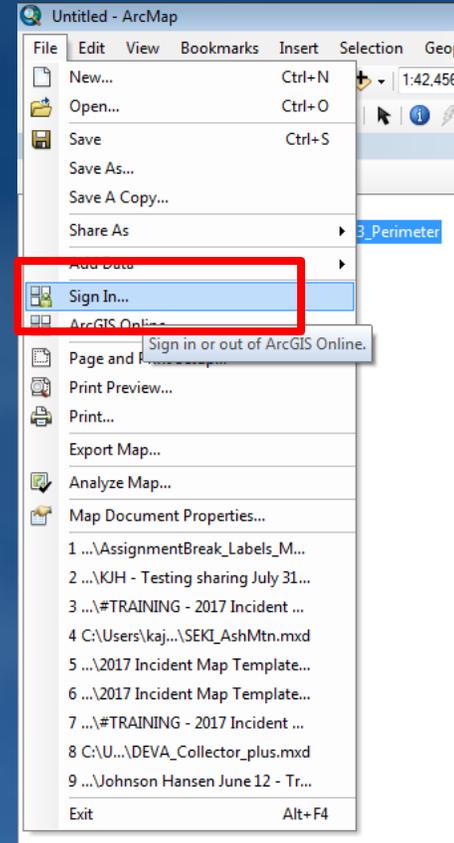


ArcMap Desktop Workflow



ArcMap Desktop Workflow

- Open ArcMap
- Log in to your NIFC Org AGOL account
- Suggestion: if you have a fire perimeter, add it now. That way when you add the National Feature Service it will zoom into that area and will load faster.



ArcMap Desktop Workflow

- Within ArcMap open  Catalog

- Expand GIS Servers

- Add ArcGIS Server > Use GIS Services > Next

- Add:

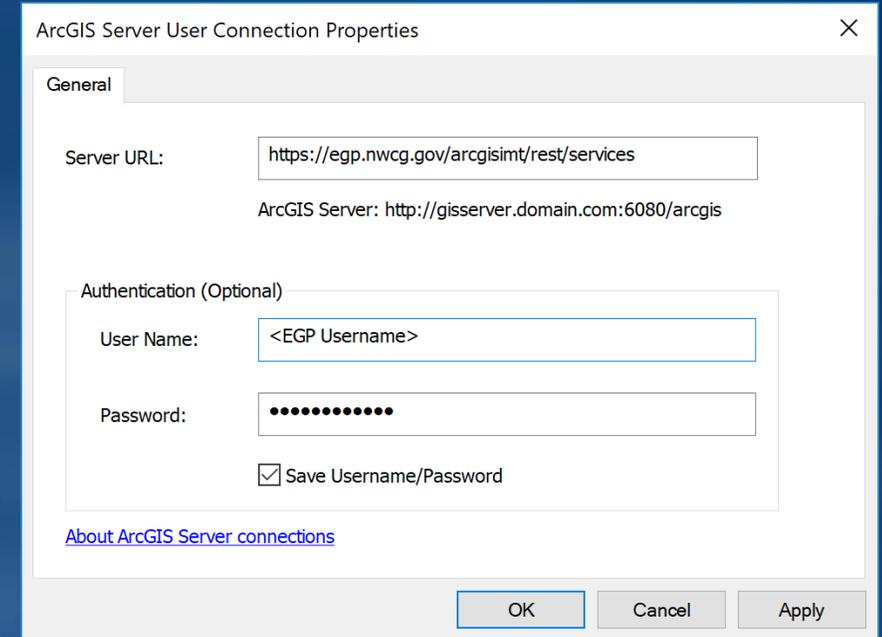
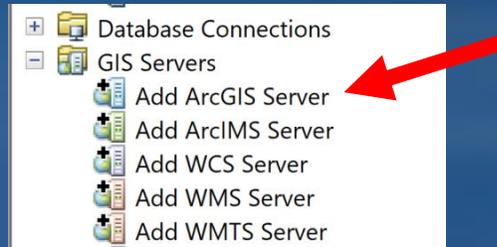
- <https://egp.nwccg.gov/arcgisimt/rest/services>

- Enter your EGP Username and password

For training purposes use the EGP Test services. Connect to the training server:

<https://egptest.nwccg.gov/arcgisimt/rest/services>

Make sure you have an EGP Test account



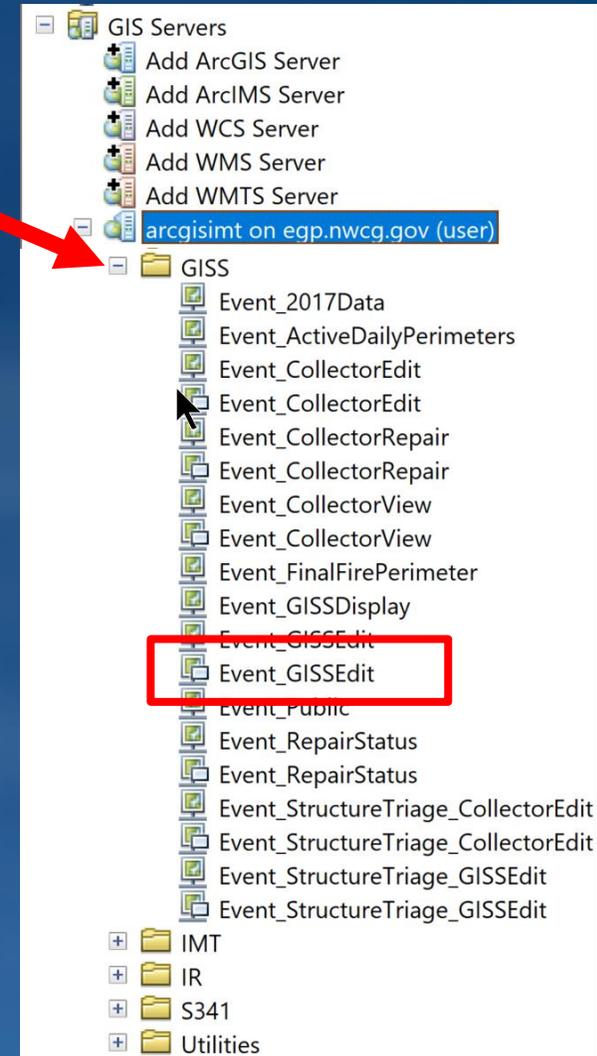
ArcMap Desktop Workflow

- Make sure that you have the GISS folder*
- Drag and drop Event_GISSEdit into your data frame

*To have access to the GISS folder within the EGP server, make sure you have an EGP account with the GISS role already. If you do not have an account with the GISS role, go to <https://egp.nwccg.gov/egp/default.aspx> to request a new account or a role change.

For help on adding a GIS Server, see:

<http://server.arcgis.com/en/server/10.3/install/linux/making-a-user-connection-to-arcgis-server-in-arcgis-for-desktop.htm>



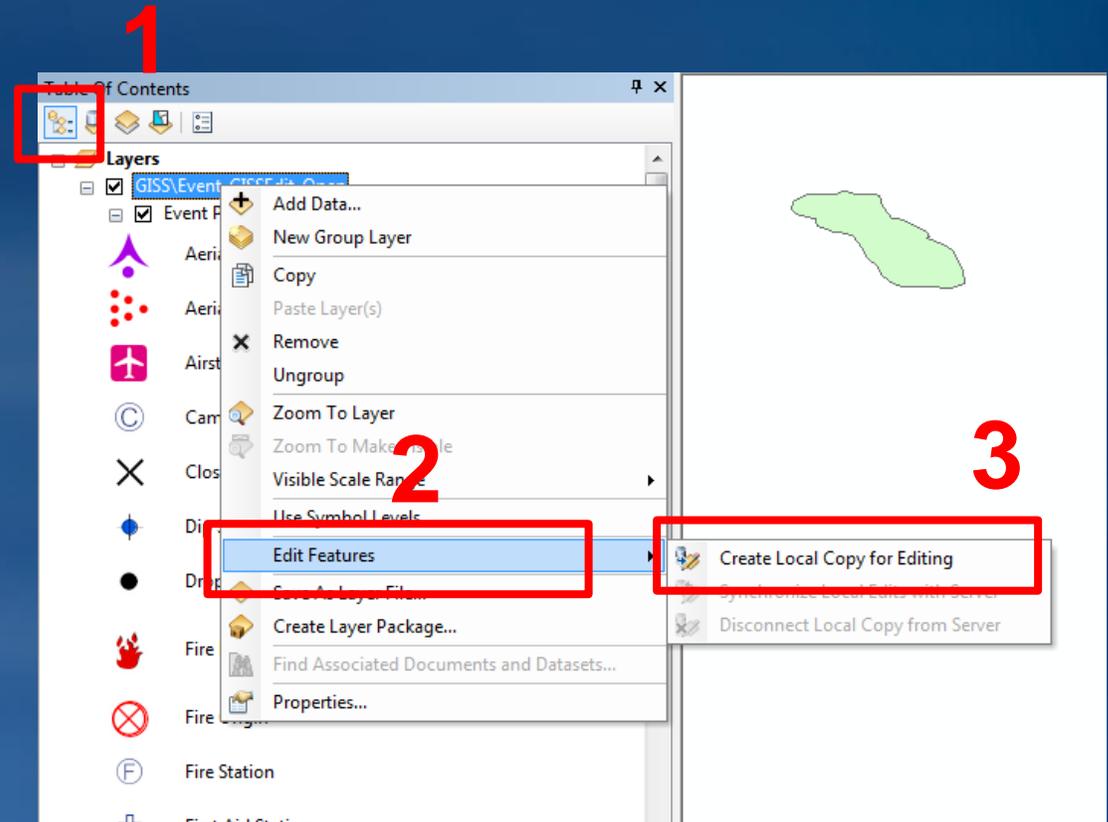
ArcMap Desktop Workflow

- **Make a Local Copy***

- Make sure the area you want to edit is in the data frame

- Make a local copy of the National Incident Feature Service – this copies only the data in the data frame

- This process creates an editable copy of the feature service as a fgdb and saves it in a Feature Service Local Edits folder under your user.

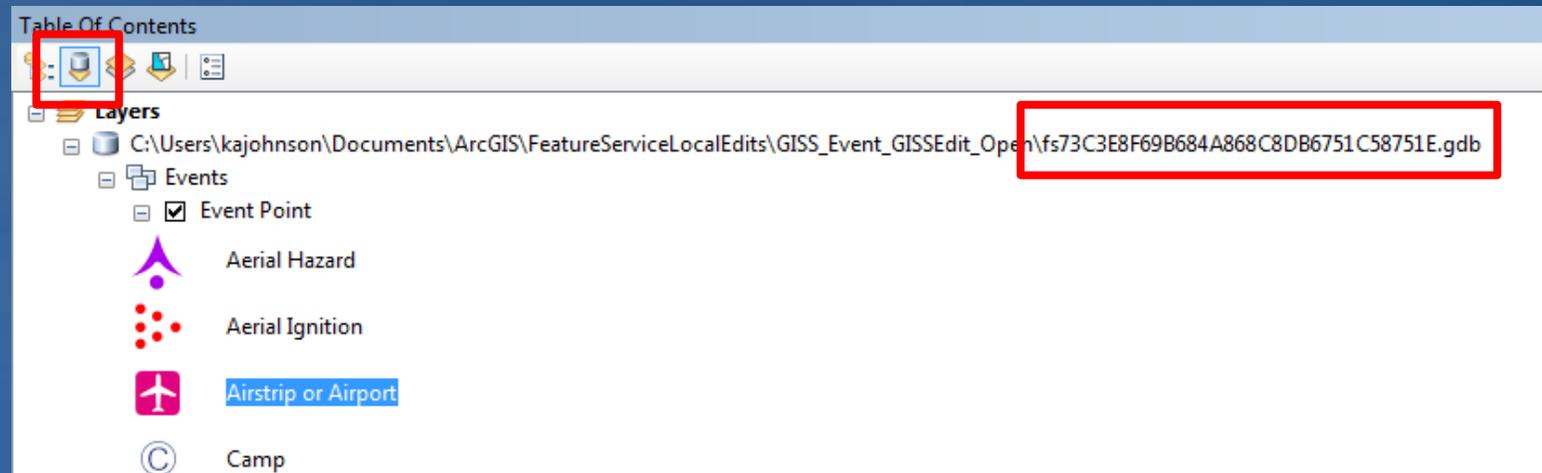


*Local copy sync is only available with the Standard or Advanced ArcGIS license



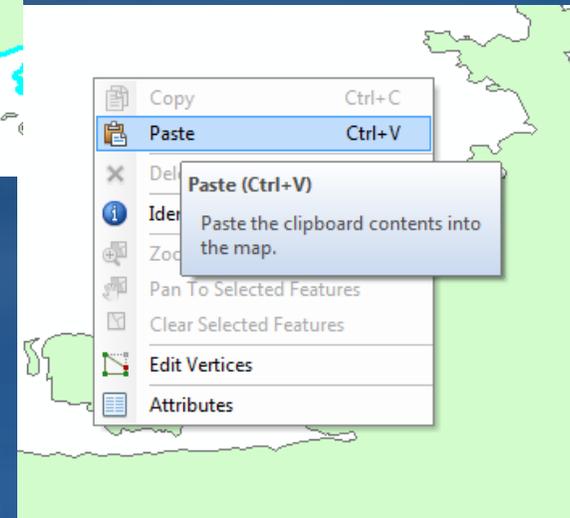
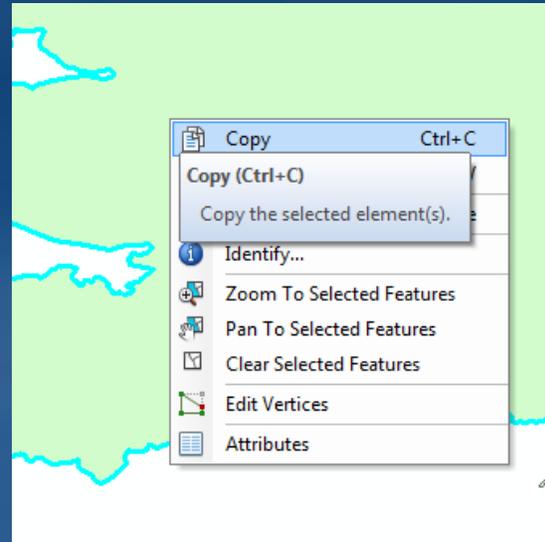
ArcMap Desktop Workflow

- Note the name of the local copy gdb and its location
- Do not change the name of this local copy



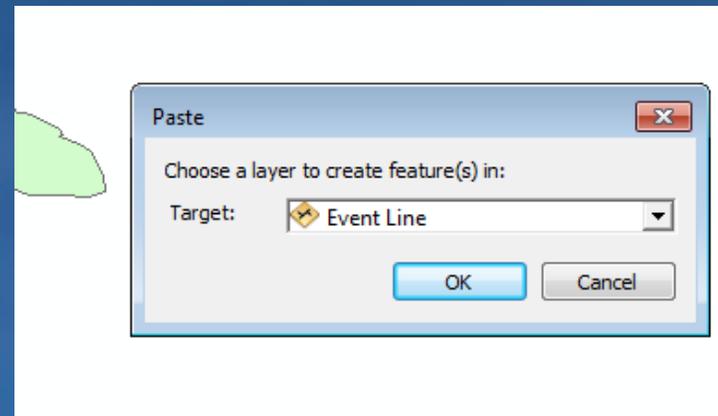
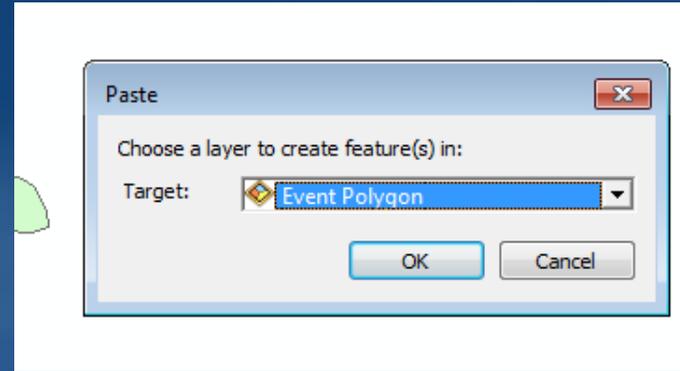
ArcMap Desktop Workflow

- If you haven't done so yet, add your fire perimeter
- Copy and paste your perimeter into the National Incident Feature Service, or use “Replace Sketch”



ArcMap Desktop Workflow

- Paste your perimeter into either the Event Line or the Event Polygon, or both
- Populate the attribute tables
 - Update the feature type (e.g. Wildfire Daily Perimeter or Uncontrolled Fire Edge) [See doc for more details](#)
- Save edits often!



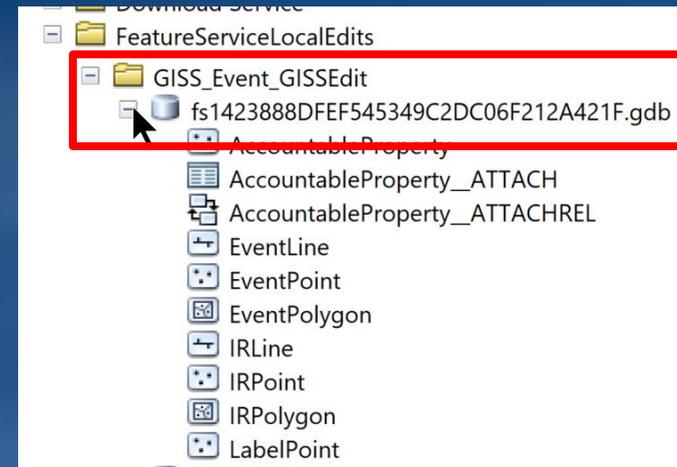
ArcMap Desktop Workflow

- Perform the remainder of your edits
 - See the NWCG document for further detail in editing event data:
<https://sites.google.com/a/firenet.gov/gisstraining/home/gissintroduutoryclass/Unit2/editingtipstricks>
 - More details on Event Attributes:
<https://drive.google.com/open?id=1x36ALjVBokx-XWkMMg9hMQNISR6PFvjQ>



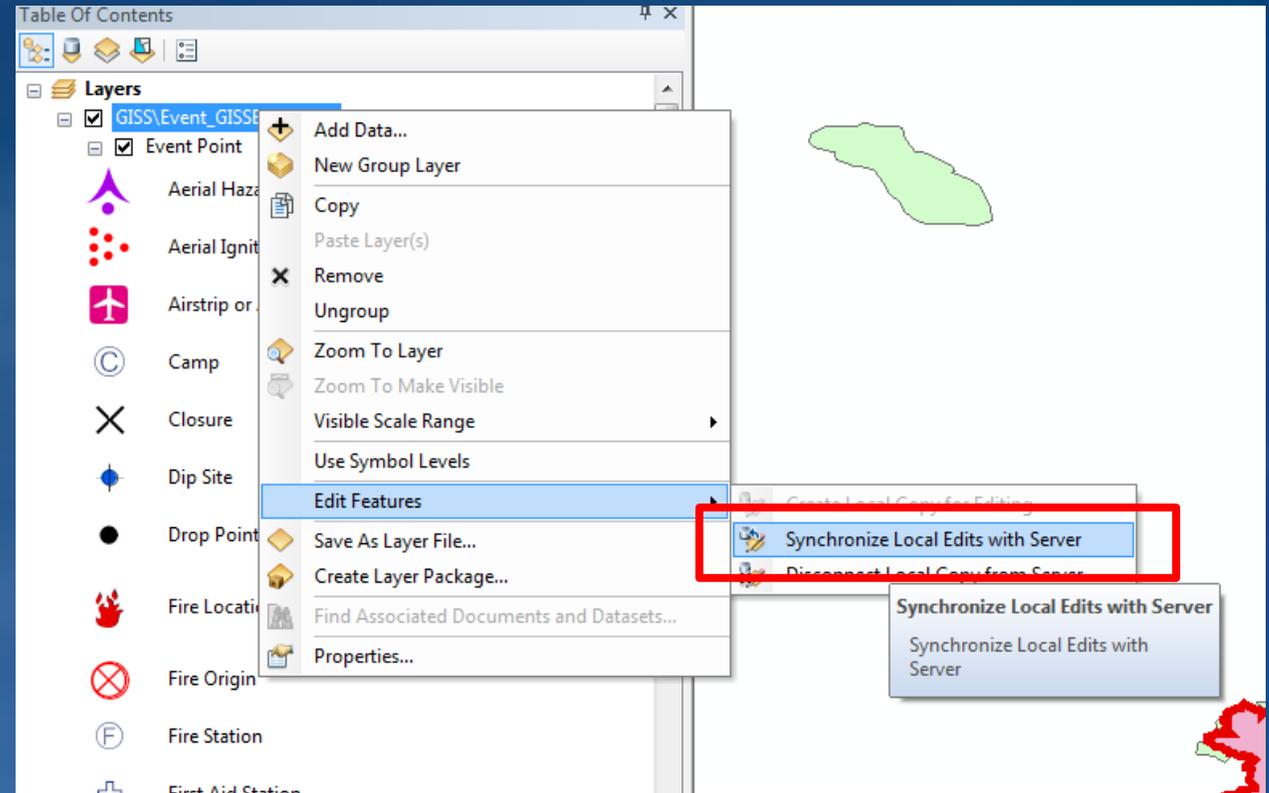
ArcMap Desktop Workflow

- When you have completed your edits, paste a copy of the Local Copy in your Incident_Data folder to use as a Master
- Save another copy into the incident Backup folder
- Rename this copy using GSTOP naming requirements



ArcMap Desktop Workflow

- Sync the local copy
- You can only perform a sync on an individual local copy once
- When you need to make more edits, make another local copy



Need help??

- For all support questions, use this form: <https://goo.gl/hMf1Js>



References

- For help with the Event Geodatabase see these websites :
 - Editing the Event Geodatabase:
 - <https://sites.google.com/a/firenet.gov/gisstraining/home/gissintroductoryclass/Unit2/editingtipstricks>
 - Editing Feature Services:
 - https://sites.google.com/a/firenet.gov/gisstraining/home/gissintroductoryclass/Unit2/a_editingfeatureservices



Reference Materials



- How to make a local copy:
<http://desktop.arcgis.com/en/arcmap/10.3/manage-data/editing-fundamentals/making-a-local-copy-of-a-service-for-editing.htm>
- How to take a map offline:
<http://doc.arcgis.com/en/arcgis-online/create-maps/take-maps-offline.htm>

