

Collector for ArcGIS (iOS)

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Prepare your data in ArcGIS for Desktop

Viewing: [Android](#) | [iOS](#)

In this tutorial, you'll build a copy of the Damage Assessments feature service. You'll create a geodatabase in ArcMap, create domains, add a feature class, then add the correct field types and configure them to meet the requirements of the data collection form. Once you have configured the information model, you will build a map in ArcMap and publish a feature service to your organization. In the next tutorial in this series, the feature service will be leveraged in a web map and used by your field workforce to collect information in the field.

Create your geodatabase


Geodatabases organize and store data you collect. Ultimately you'll create a feature class to store damage assessment reports, but first you need to create the geodatabase that holds the feature class. Take the following steps to create a file geodatabase by using the Catalog window in ArcMap.

1. Start ArcMap and open the Catalog window.
2. Right-click the file folder in the Catalog tree where you want to create the file geodatabase.
3. Point to New.
4. Click File Geodatabase to create a new file geodatabase in the location you selected. Name your geodatabase Tutorial.

Define geodatabase domains

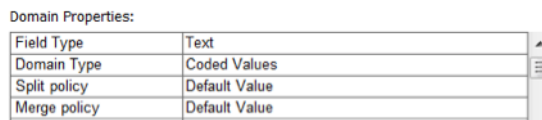
Some fields in your data should be populated from a set of choices. By creating domains in your geodatabase, you provide a list of choices your users can select from when they are collecting data. Later in this tutorial when you set up the fields, you'll use the domain.

1. In the Catalog tree, right-click the geodatabase and click Properties.
2. Click the Domains tab.
3. Click the first empty field under Domain Name and type ExtentDamage for the new domain. Press the TAB key or click the new domain's description field, and type a description for the domain.



Domain Name	Description
ExtentDamage	The recorded level of inspected damage

4. **Tip:**
5. When creating a new domain, specify a name that describes the parameter it governs. The description is a small sentence describing the purpose of the domain.
6. Click the field next to Domain Type, click the drop-down arrow, then click Coded Values from the list of domain types and choose Text as the Field Type.



Domain Properties:

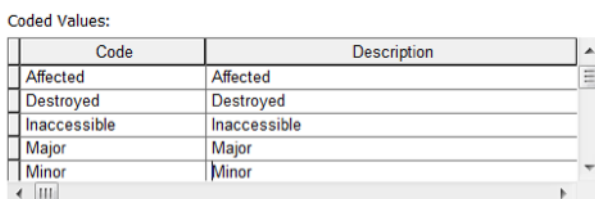
Field Type	Text
Domain Type	Coded Values
Split policy	Default Value
Merge policy	Default Value

7. Click the first empty field under Coded values and type Affected for the first valid code.

Tip:

When entering coded values, make sure the code field matches the Field Type specified in the Domain Properties.

8. Press the TAB key or click the new coded value's Description field. Type Affected as the user-friendly description for this coded value.
9. Repeat steps 5 and 6 until all valid values and their descriptions have been typed. The end product resembles the following image:



Coded Values:

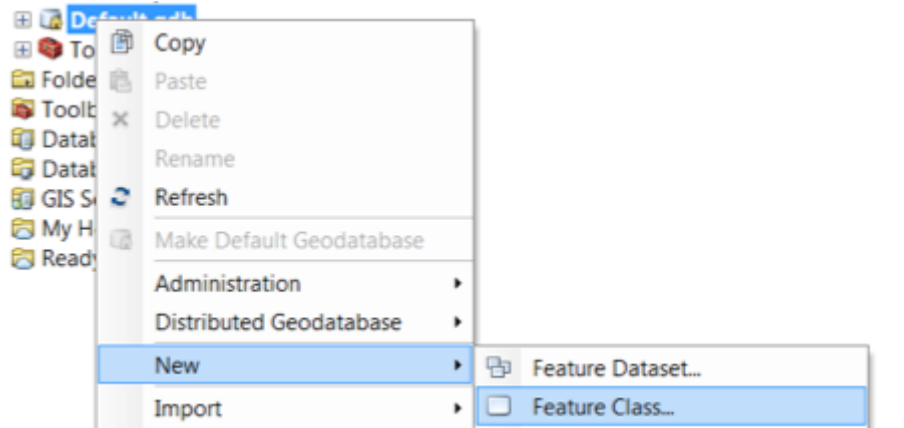
Code	Description
Affected	Affected
Destroyed	Destroyed
Inaccessible	Inaccessible
Major	Major
Minor	Minor

10. Click OK to create the new domain in the geodatabase and close the dialog box.

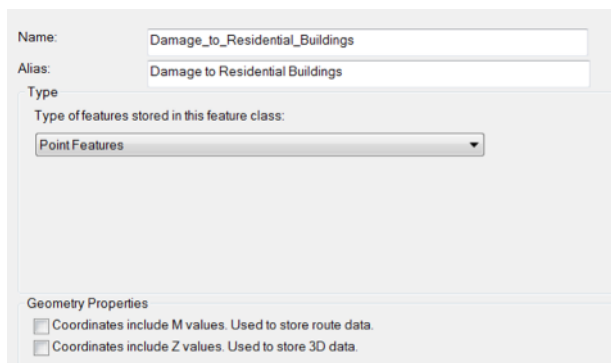
Define the feature class

Next, you'll create the feature class to hold the information collected. Feature classes are essentially containers for information, where the pieces of information share similar characteristics, whether that be their geometry or their attributes.

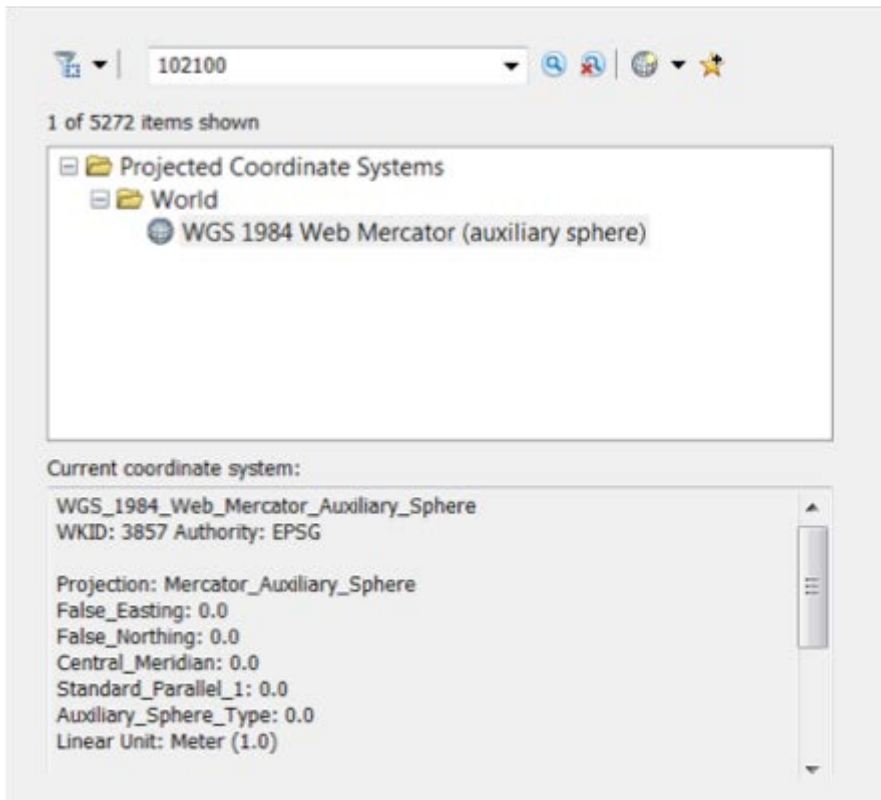
1. Right-click the geodatabase, point to New, then click Feature Class.



2. **Note:**
3. A feature class is a collection of features that share the same geometry type and information model.
4. The New Feature Class wizard opens. It walks you through the necessary steps to customize the feature class.
5. Type `Damage_to_Residential_Buildings` as the name for the feature class, type `Damage to Residential Buildings` as the alias, then choose `Point Features` as the feature type. Click Next.



6. When creating this feature class, select a coordinate system. Coordinate systems allow your features to be projected properly and accurately on a map, making the features appear in the correct locations. For this tutorial, select `WGS 1984 Web Mercator (auxiliary sphere)`. Click Next.



7. Click Next to accept the default XY Tolerance settings.
8. Click Next to accept the default database storage configuration.

Set up the fields

The fields are a key part of your information model. They provide the structure of the information your field workers collect and provide rules for the types of information collected about a feature.

1. The first field you create will be used to record the number of occupants that live in the building being inspected. Click the first empty field and type NUMOCCUP for Field Name. Under Data Type, pick Long Integer.
2. Under the Field Properties, click the Alias check box and change the default alias NUMOCCUP to Number of Occupants. The alias is what your field workers see on the data collection form so it's important that it makes sense to them.

Field Name	Data Type
OBJECTID	Object ID
SHAPE	Geometry
NUMOCCUP	Long Integer

Click any field to see its properties.

Field Properties	
Alias	Number of Occupants
Allow NULL values	Yes
Default Value	

- The next field you create takes advantage of the coded domain created earlier in this tutorial. Click the next empty field and type TYPDAMAGE. Pick the data type as Text.
- Under the Field Properties, type Extent of Damage as the alias for the field.
- Click the empty Domain check box and choose ExtentDamage.

Field Name	Data Type
OBJECTID	Object ID
SHAPE	Geometry
NUMOCCUP	Long Integer
TYPDAMAGE	Text

Click any field to see its properties.

Field Properties	
Alias	Extent of Damage
Allow NULL values	Yes
Default Value	
Domain	ExtentDamage
Length	50

- The final field to add is the description field. Name this field DESCDAMAGE and make it a text field. Update the alias to Description of Damage.

Note:

The full damage assessment template has more features than described in this tutorial. For a complete set of fields, download the [Damage Assessment Template map package](#). However, you can continue the Collector tutorials using just the three fields you created.

- Click Finish to complete the feature class creation.

The feature class you have created is added to the map and appears in the Table of Contents panel in ArcMap.

- To allow users to take pictures in the field and attach them to their assessment reports, enable attachments on the feature class you just created. To do so, right-click the feature class in the Catalog window, select Manage, then click Create Attachments.

Theme your data

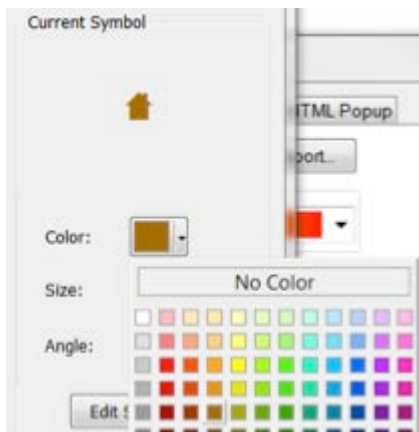
You've now created your information model. In this section, you'll define how those features look on your map.

1. To update how your features look, right-click the layer in the Table of Contents and click Properties.

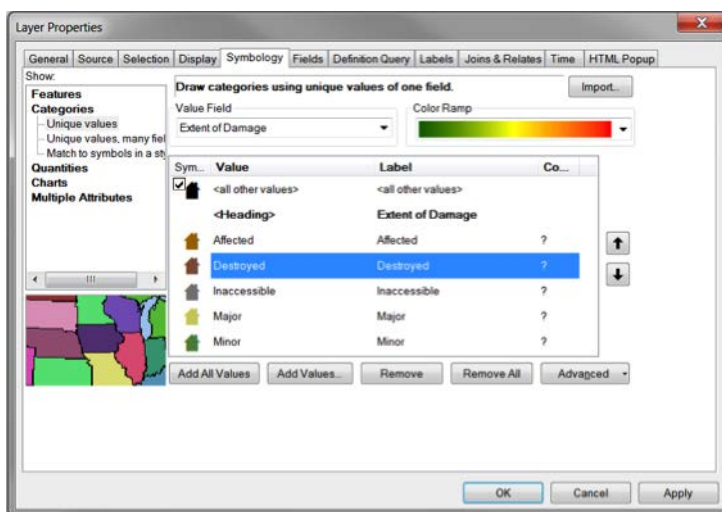
Note:

If your feature class is not yet on the map, drag the feature class from the Catalog window into the Table of Contents panel in ArcMap.

2. Click the Symbology tab.
3. Click the Categories section under the Symbology tab and choose Unique values.
4. In the Value Field drop-down list, choose the Extent of Damage field and click Add All Values.
5. Right-click the first value in the list and select Properties for All Symbols.
6. In the Symbol Selector, search for House and under the Civic options pick House 1, then click OK.
7. Double-click each house icon and select a different color for each of the house symbols.



8. Click Apply and click OK. The symbols update in the Table of Contents.



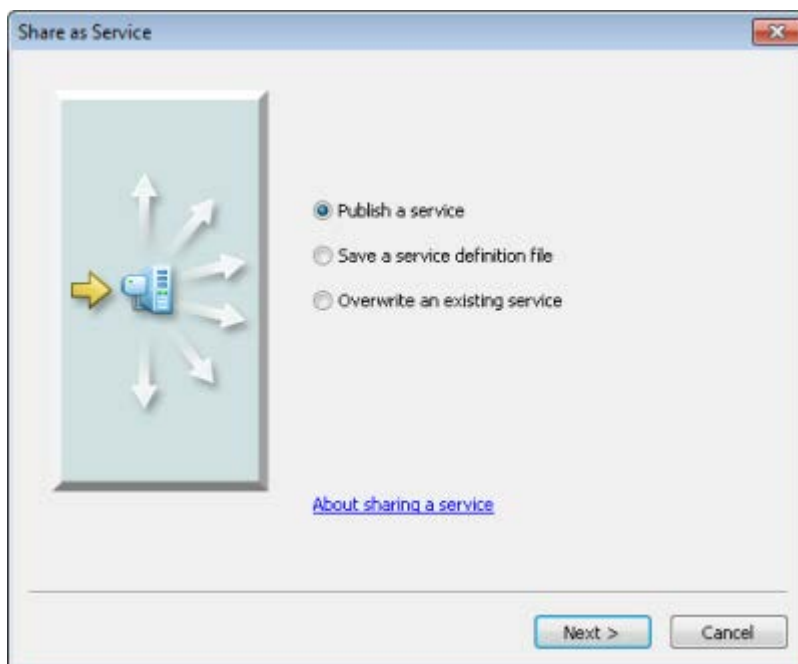
9. Click File and click Save to save your map document. Name your map document Damage_Assessment.mxd.

Publish your data

To use your data in your map, it needs to be available online. You can publish the data to your ArcGIS for Server or to your ArcGIS organization.

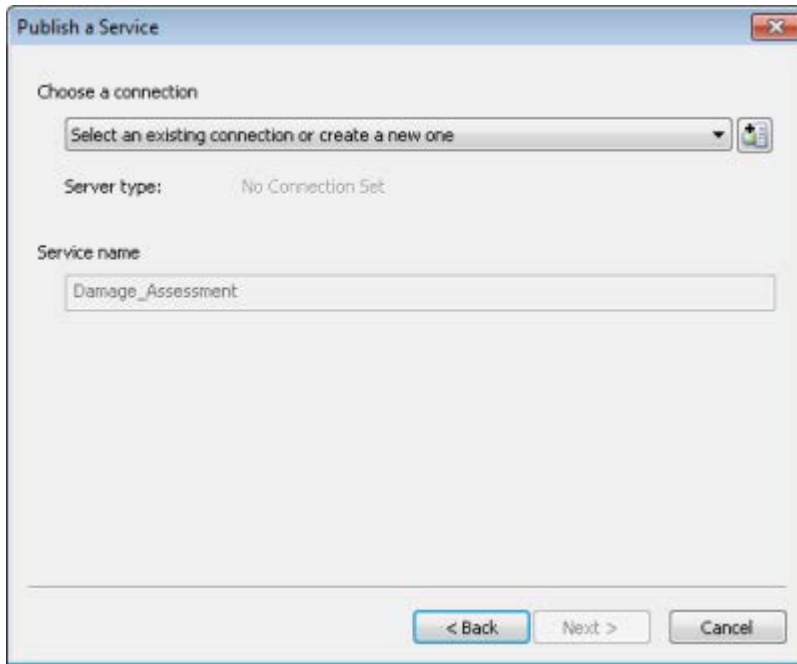
1. If you're not already signed in to your ArcGIS organization in ArcGIS for Desktop, sign in.
2. Click the File menu, choose Share As, then click Service.

The Share as Service panel opens.

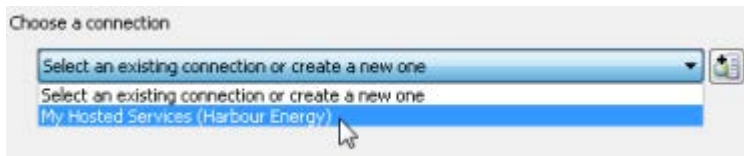


3. On the Share as Service panel, confirm the option Publish a service is selected. Click Next.

The Publish a Service panel opens.

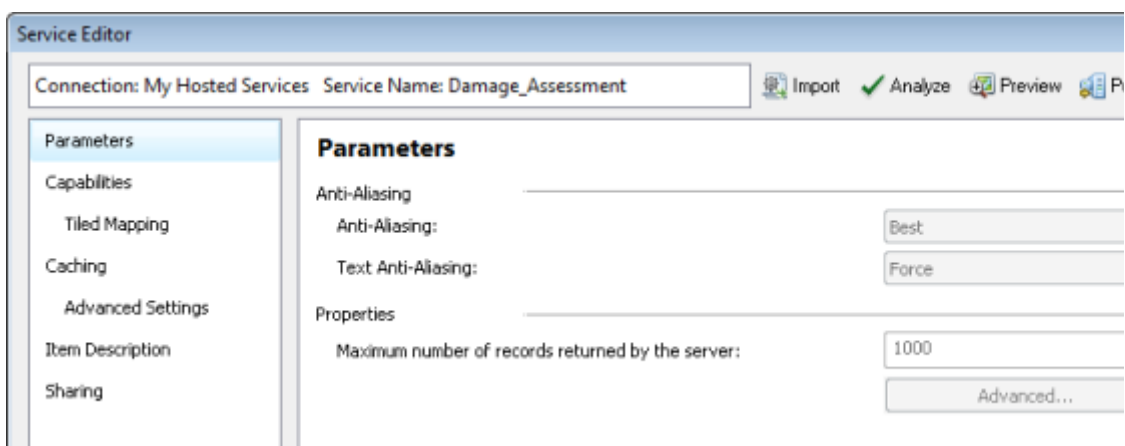


4. On the Publish a Service panel, expand the Choose a connection drop-down list and select My Hosted Services (your organization name).

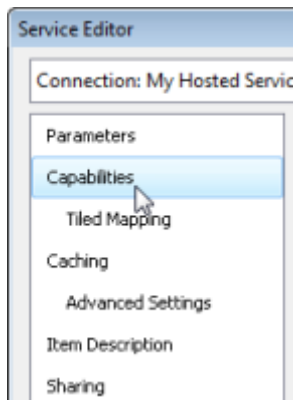


5. Accept the default service name, Damage_Assessment, and click Continue.

The Service Editor window opens.



6. In the left pane on the Service Editor window, click Capabilities.



7. In the right pane, check the Feature Access check box and uncheck the Tiled Mapping check box.

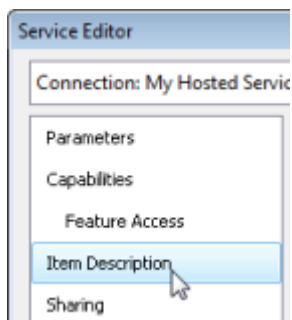
Capabilities

Choose the capabilities you would like enabled for this service:

<input type="checkbox"/>	Tiled Mapping
<input checked="" type="checkbox"/>	Feature Access

Furthermore check all boxes regarding the enablement of editing etc. (all boxes!)

8. This specifies that you'll publish a feature service rather than a tiled map service.
9. In the left-hand pane, click Item Description.



10. Add a tag Data. Type the following for the Summary and Description: This is for the Collector Create maps tutorial.

Item Description

Summary (required):

Tags (required):

Description:

Access and Use Constraints:

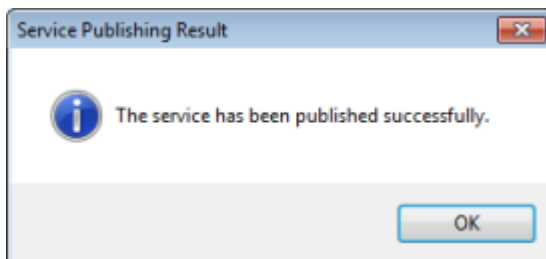
Credits:

Update missing metadata in document based on item description.

11. On the Service Editor toolbar, click Publish.



12. You'll see various status messages as the service publishes, then you'll see a result message.



13. Click OK on the result message.

14. Minimize ArcMap or exit the ArcMap application. Save your changes if prompted.

Now that you've created your information model, defined a domain to improve data quality in the field, and published your data, you are ready to [create and share a map](#) for your field workforce to use.