

Location Intelligence
Infrastructure Asset Management

Confirm®

Confirm Mapping Interface

v26.30a.AM

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October 02, 2026

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Confirm Mapping Interface

Confirm Mapping Interface allows the linking of data between Confirm and MapInfo / ArcMap / ArcGIS Pro mapping layers via the use of a ConfirmWeb service.

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Installation

Supported Platforms

	Version	Support Status
MapInfo Professional 12.5.1 to 2023	Windows 10	Withdrawn v26.0
	Windows 11	Current

Pre-requisites

In order to install the software the following pre-requisites are required:

- A supported version of MapInfo / ArcMap
- Microsoft .NET framework 4.8

Once the pre-requisites are installed, it will be possible to install the Confirm Mapping Interface by running the ConfirmMapInfoInterface.exe or ConfirmArcMapInterface.exe installer.

MapInfo Specific Pre-requisites

The following pre-requisites are only required by the MapInfo version of the tools:

- Microsoft Visual C++ 2010 Redistributable
- Microsoft Visual C++ 2013 Redistributable
- Microsoft Visual C++ 2015 Redistributable

  Note: When running on Windows 64bit, both the 32bit (x86) and the 64bit versions of the 2013 and 2015 redistributables are required.

- MapXtreme 8.1

  Note: All pre-requisites will be provided with the Confirm Installation media.

Installation

Installation is split into two components:

1. Confirm Mapping Interface, the client tools required to be installed alongside a MapInfo / ArcMap / ArcGIS Pro installation.
2. Web Service, the client tools will use the web service to access the Confirm database.

   Note: Currently the Confirm Connector or ConfirmConnect® web services contain the software required for the Confirm Mapping Interface tools to communicate with the Confirm database. It is recommended to install this as a separate web service. Please see their respective installation documentation.

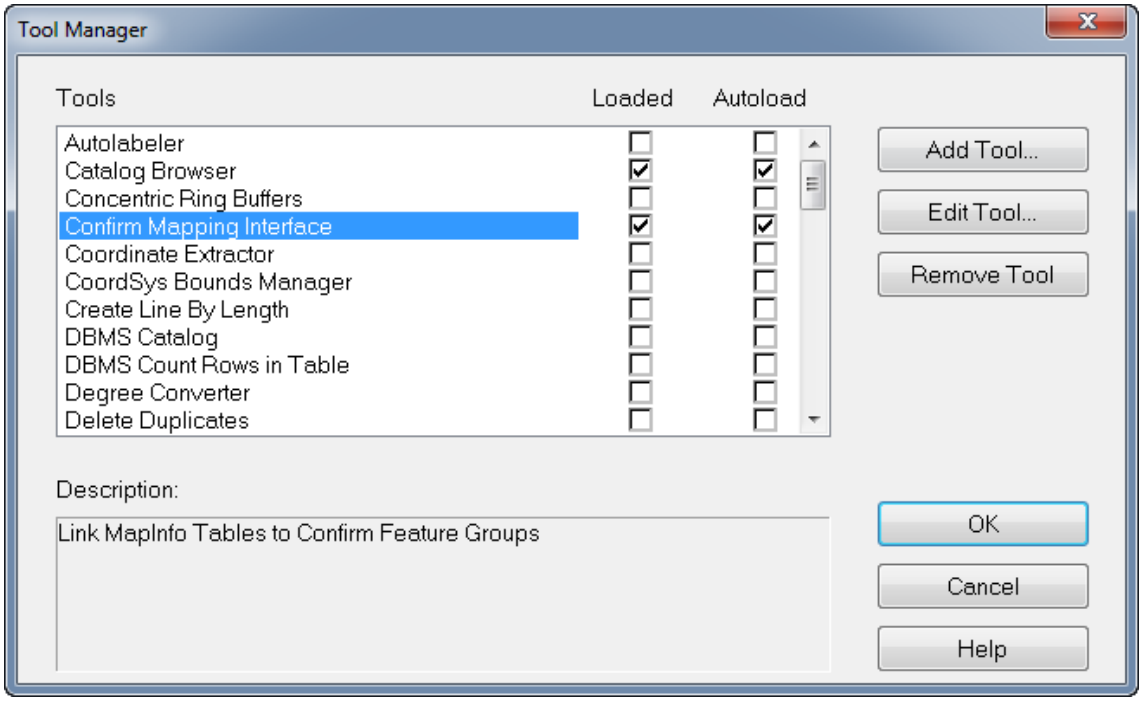
Installing the Confirm Mapping Interface tools

Run the supplied installer and follow the on screen instructions.

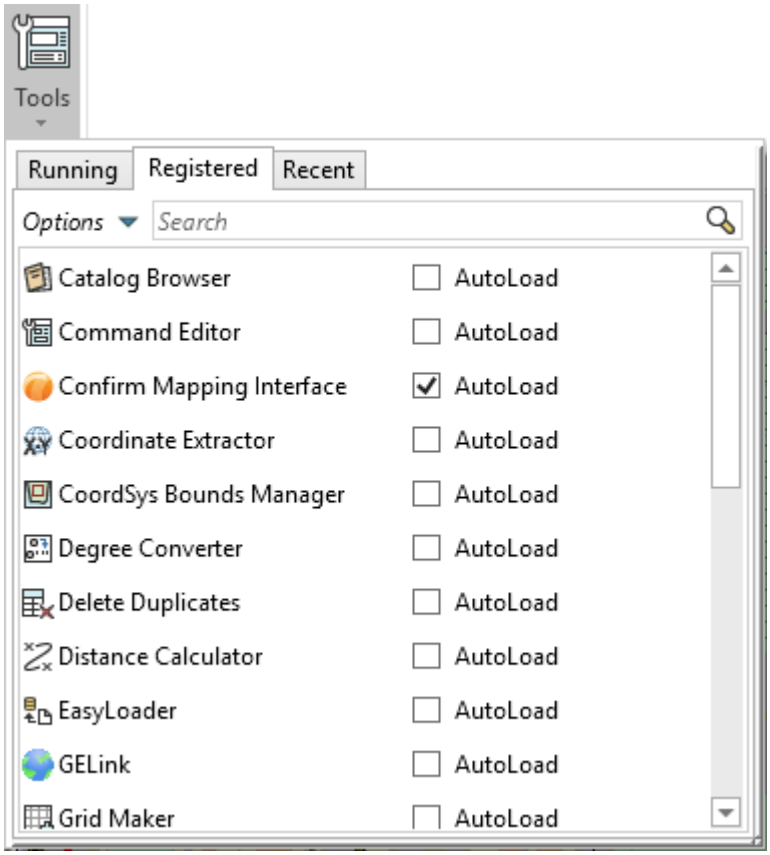
MapInfo Specific Installation Steps

The installer will register the Confirm Map Interface with the MapInfo Tool Manager and automatically load the toolbar when MapInfo starts. Use the Tool Manager to configure the Confirm Map Interface Autoload settings.

For 32 bit versions of MapInfo:



For 64 bit versions of MapInfo:



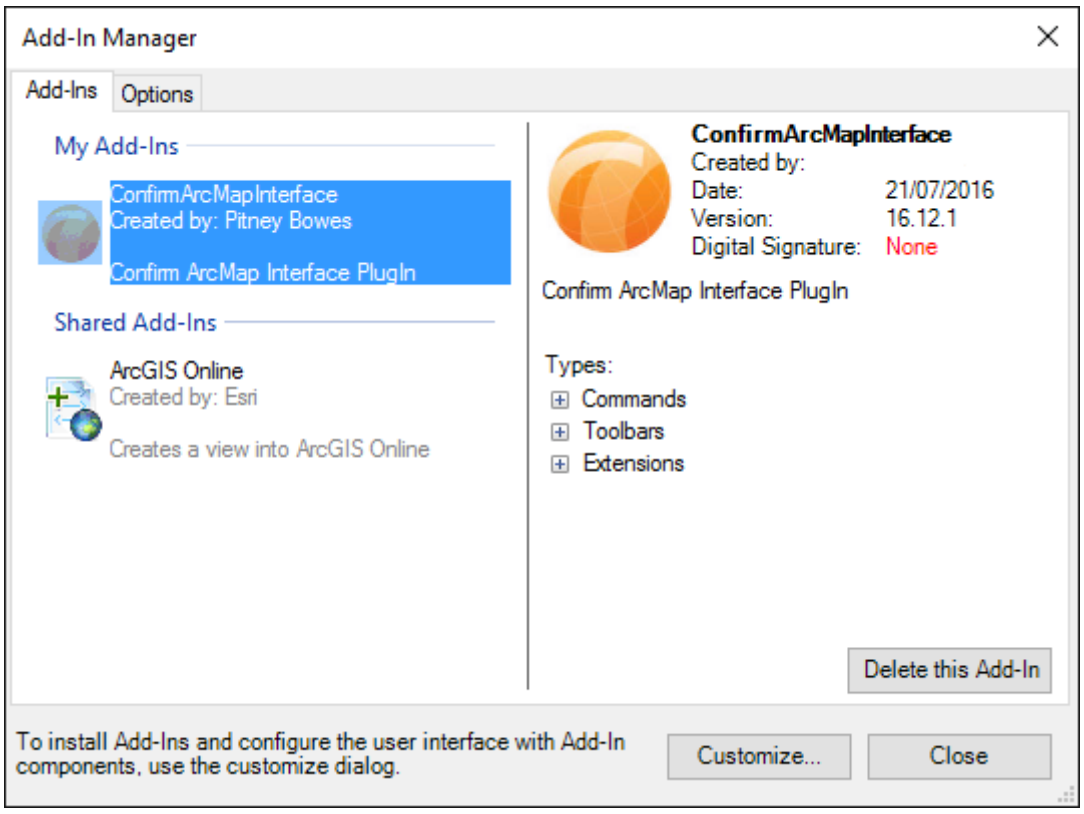
ArcMap Specific Installation Steps

The installer will configure the Confirm Mapping Interface extension for ArcMap to automatically load the toolbar. No further installation steps are needed.

It is possible for the Confirm ESRI Add-In to remain registered with ArcMap after uninstalling the product.

The tools will not work in this scenario and it is possible to manually remove the tools using the following instruction.

1. Open ArcMap
2. In the Toolbar select Customize | Add-In Manager
3. Select the Confirm Mapping Interface
4. Click Delete this Add-In



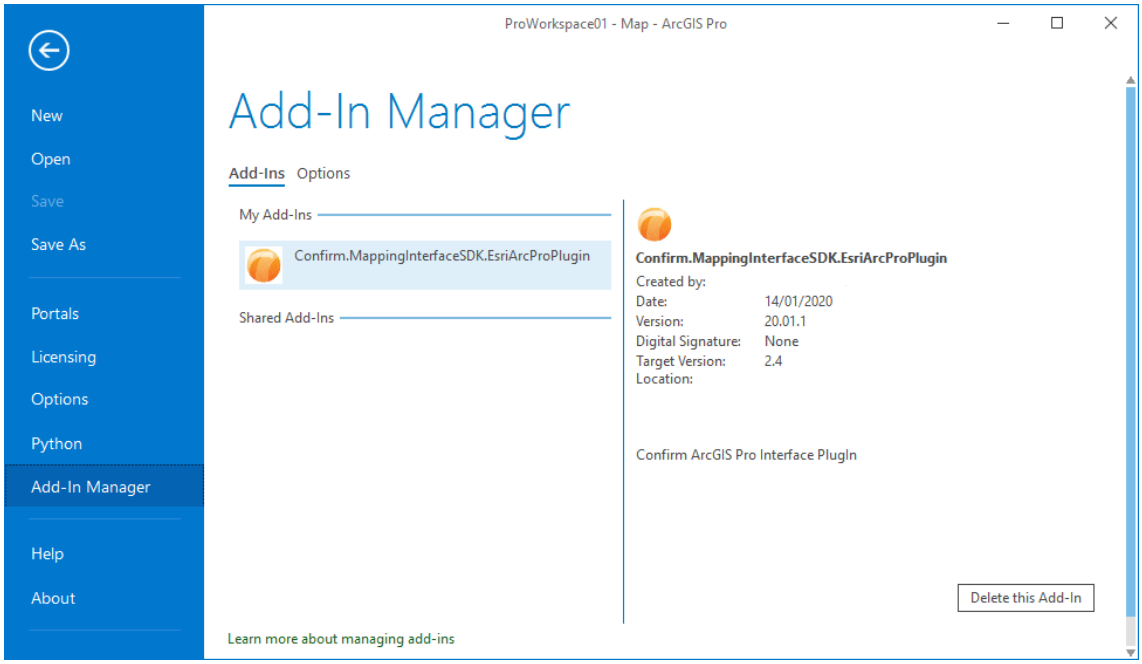
ArcGIS Pro Specific Installation Steps

The installer will configure the Confirm Mapping Interface extension for ArcGIS Pro to automatically load the toolbar. No further installation steps are needed.

It is possible for the Confirm Add-In to remain registered with ArcGIS Pro after uninstalling the product.

The tools will not work in this scenario and it is possible to manually remove the tools using the following instruction.

1. Open ArcGIS Pro
2. Select the 'Project' tab and click on 'Add-in Manager'
3. Select the Confirm Mapping Interface
4. Click 'Delete this Add-In'


ProWorkspace01 - Map - ArcGIS Pro
New
Open
Save
Save As
Portals
Licensing
Options
Python
Add-In Manager
Help
About
Add-In Manager
Add-Ins
Options
My Add-Ins
Confirm.MappingInterfaceSDK.EsriArcProPlugin
Shared Add-Ins
Confirm.MappingInterfaceSDK.EsriArcProPlugin
Created by:
Date: 14/01/2020
Version: 20.01.1
Digital Signature: None
Target Version: 2.4
Location:
Confirm ArcGIS Pro Interface PlugIn
Delete this Add-In
Learn more about managing add-ins

Coordinate System

The Confirm database uses a map system setting to determine which coordinate system the geometry data is stored in. The Confirm Mapping Interface Tools assumes that all map layers are also in that same coordinate system. This means that your maps must use the same coordinate system as Confirm to ensure feature geometry is updated correctly.

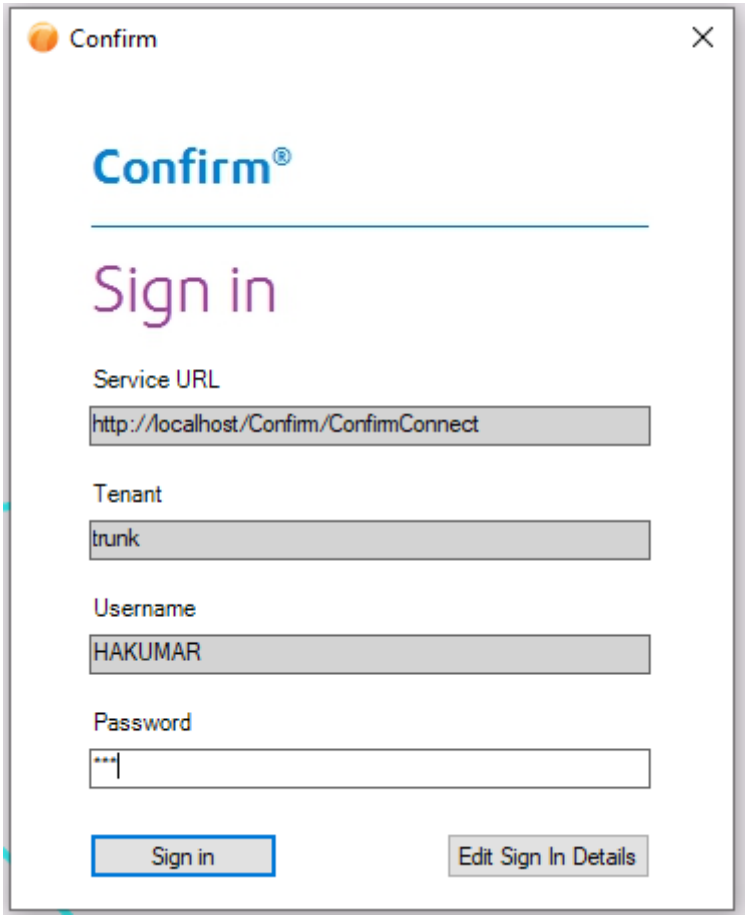
Tools

Configuring the Interface

Once both the Web Service and Confirm Mapping Interface have been installed, you then need to configure the tools to communicate with Confirm by using the **Map Feature Group to Layer** tool (cog icon).

Sign In

The first time you perform any action with the Confirm Mapping Interface tools, you will be presented with a Sign In form containing the following fields:



- URL - the URL of the Web Service that has been setup to work for the mapping link.
- Username - a Confirm user created for updating features in Confirm.
- Password - the password required for your username.
- Tenant - A database connection configured on the Web Service to access Confirm.

Note: All of the above would be provided by the Confirm administrator. Also, the sign in form will be presented the first time you use any of the Confirm Mapping Link tools in your current session.

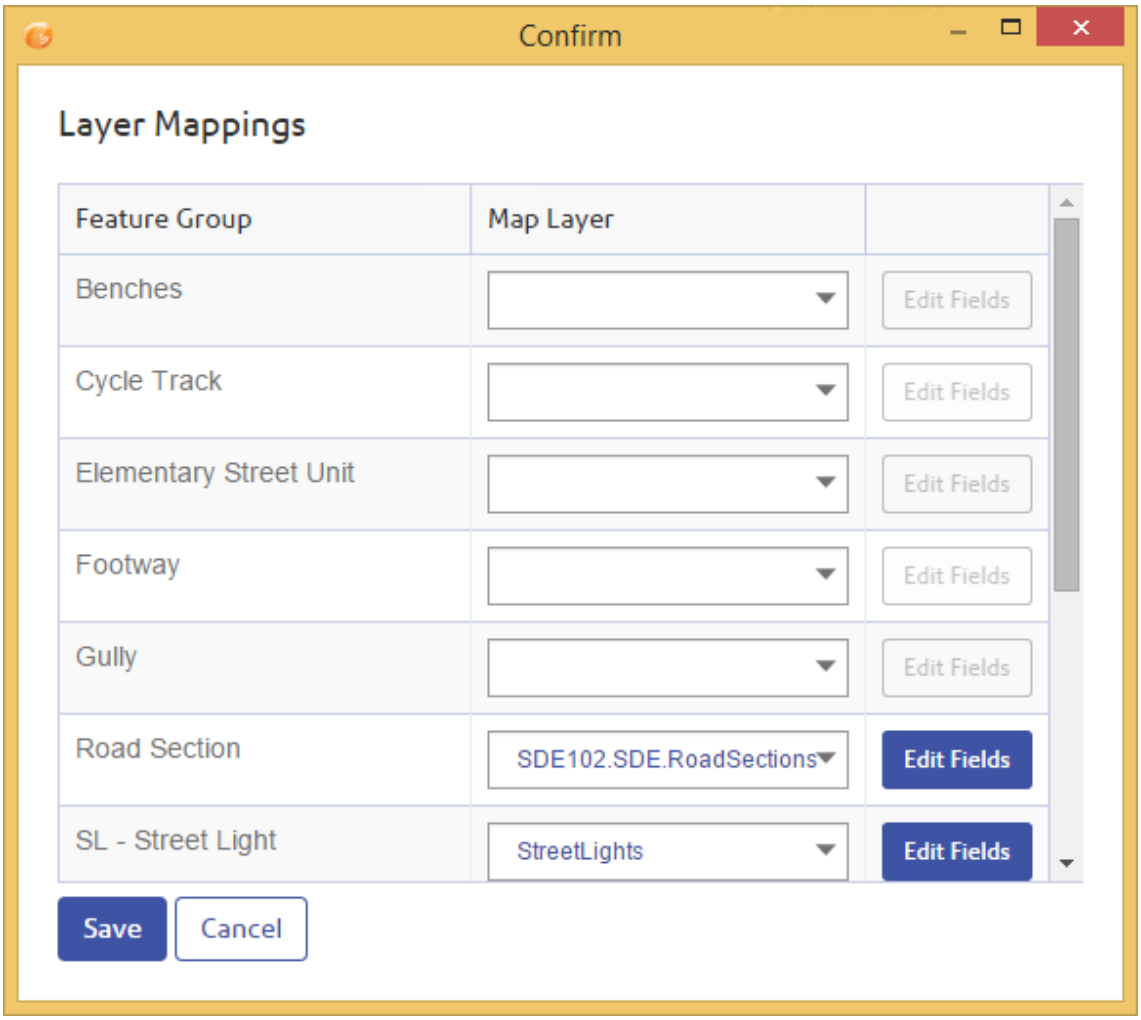
Note: Auth0 users can login to mapping links. User will be redirected to auth0 login page on giving username and tenant. They will be validated with auth0 Credentials.

After you've Signed in the tools will remember those details and continue to use them until MapInfo / ArcMap is closed and re-opened.

Map Feature Groups to Layers

The first step is to ensure you have one or more layers loaded into your map (using the same **Coordinate System**) which you plan on syncing data to and from the main Confirm system. With the layers loaded click on the Map Feature Groups to Layers button.

The Layer Mappings form will appear:

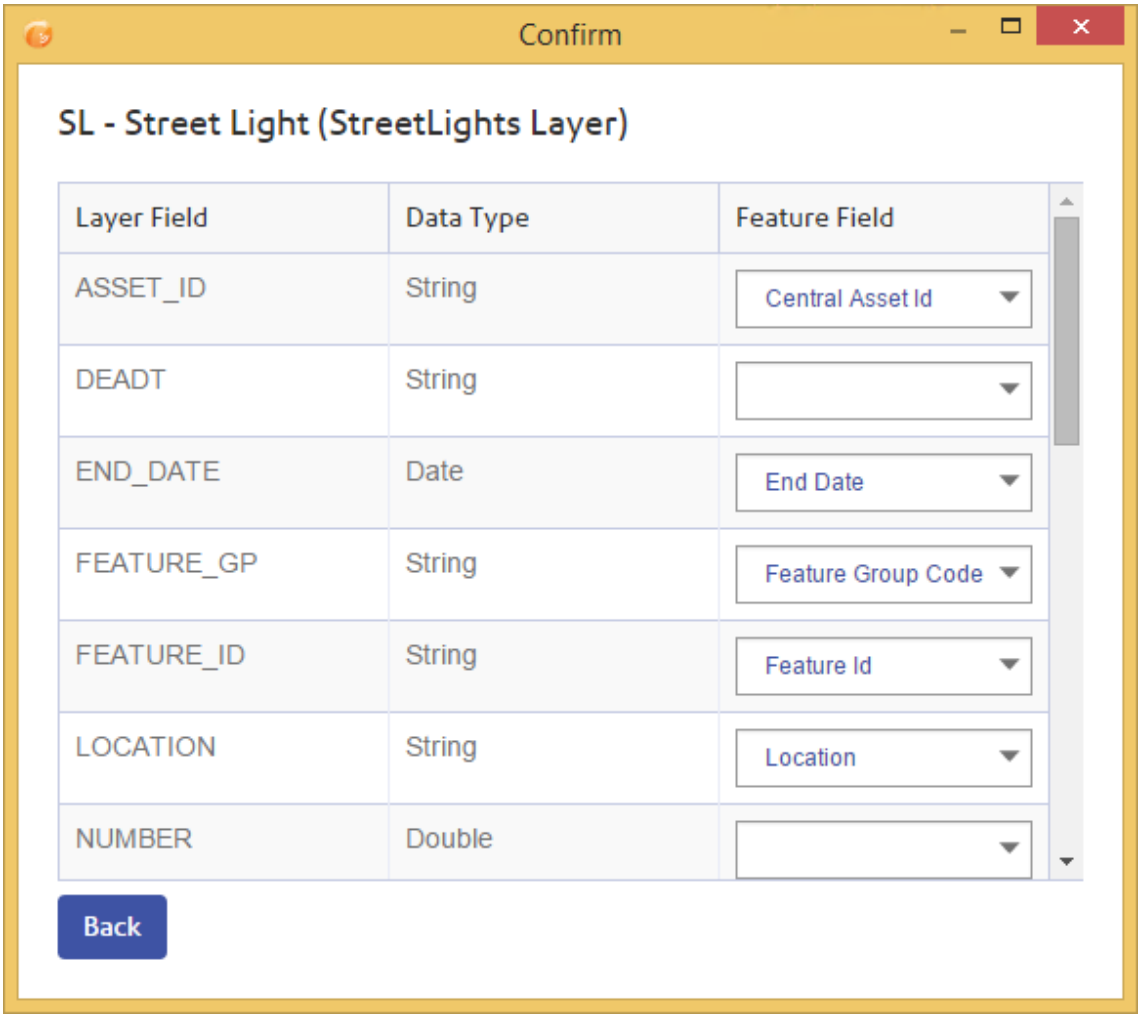


Here you can set which Confirm Feature Groups will link to which Map Layers:

- **Feature Groups** listed are those with the "Use Confirm Database Map Layer" option enabled.
- For ArcMap and ArcGIS Pro, the list of available Map Layers will only show those which match the geometry type for the chosen Confirm Feature Group. **For example:** The SL - Street Light Feature Group has been configured to work with Point geometry, so the Map Layer drop down will only show layers that contain point data.

Feature Field to Layer Field

With a Map Layer linked to the Confirm Feature Group, it is now necessary to link the Layer Fields to the Feature Fields. To do this, click the Edit Fields button (only enabled if a layer has been selected). This will display the Layer field mappings form as shown below:



The feature group and layer name you are editing will be shown at the top of the form.

The **Layer Field** and **Data Type** columns display all of the fields available in your chosen map layer and their corresponding Data Type. The Feature Field displays any currently linked Confirm Feature fields with the drop down showing any that may be linked.

Note: The Dead flag will sync as either 'true' or 'false' so the field in the layer must be of string data type and have a length of at least 5 characters.

Note: Only one Feature Field value can be linked to a Layer Field but it is possible to link multiple Layer Fields to the same Feature Field value.

Note: When used, Alias names will be displayed in the Layer Field list instead of the column name. Alias names containing spaces are not supported and will not be displayed.

It is possible to link to the Confirm Attribute Code or Name values. These values must be an exact match in both systems excluding case sensitivity. **For example:** Map layer value of "1.5Metres" will work when Attribute value in Confirm is "1.5metres" or "1.5Metres". It will not work when the value in is Confirm "1.5 Metres".

The Back button on this form will return to the Layer Mappings form where you can Save or Cancel any changes.

Mandatory Feature Fields

- **Central Asset Id**: This is used as the unique identifier between the Map Layer and the Confirm Feature. This must be linked to a Layer Field containing a unique value for every feature in your Map Layer/s. In the screenshot above, this is shown as ASSET_ID
- **Revision No**: This is used to keep track of when a feature was last updated so that only Confirm Features that have changed since the last synchronisation are downloaded. This must be a numeric field in the Layer.
- **FeatureTypeCode**: This is used by the **Update Feature in Confirm** tool and must contain a valid value for all new Features in the selection prior to using this tool to create new Features in Confirm.

Note: It is strongly recommended that the Layer Field linked to the Central Asset Id is indexed in the Map Layer to improve performance during synchronisation

ESRI Feature Class Subtypes and Domains

Refer to ESRI documentation if you're unfamiliar with Subtypes and Domains. These essentially allow you to create drop down values to select from when editing mapping data.

When editing, the Description value is shown in the drop down but this value is not sent to Confirm, instead the Code value will be sent. This means the attribute values in Confirm will need to match the Code value shown on the Domain used by the Feature class being edited.

MapInfo Pro and Date fields

When using SQL Server Spatial data, linking date fields must be configured as Date/Time fields in the SQL Server database.

ArcGIS Pro and Date/Time Fields

ArcGIS Pro only supports Date fields (as opposed to Date/Time fields) so any Date/Time values mapped to Date fields will have their time value removed.

Confirm pre-requisites

In order for Confirm and the Mapping Interface tools to work together, the following Confirm configuration is required:

- An Adhoc Inspection Route for the Work Group assigned to the Confirm Mapping Interface user/s.
- Inspection Batch seed number ranges specified in the Condition Survey Seed screen for the chosen users Work Group.

Sync Features

Once the **Feature Group to Map Layer** configuration has been completed it will now be possible to Sync data from Confirm to the Map Layers. Using the Sync features button, all Layers which have been linked to Feature Groups will be updated with the latest details stored in the Confirm database. All Features that match via the Central Asset Id on your Map Layers will be updated if changes have been detected in Confirm.

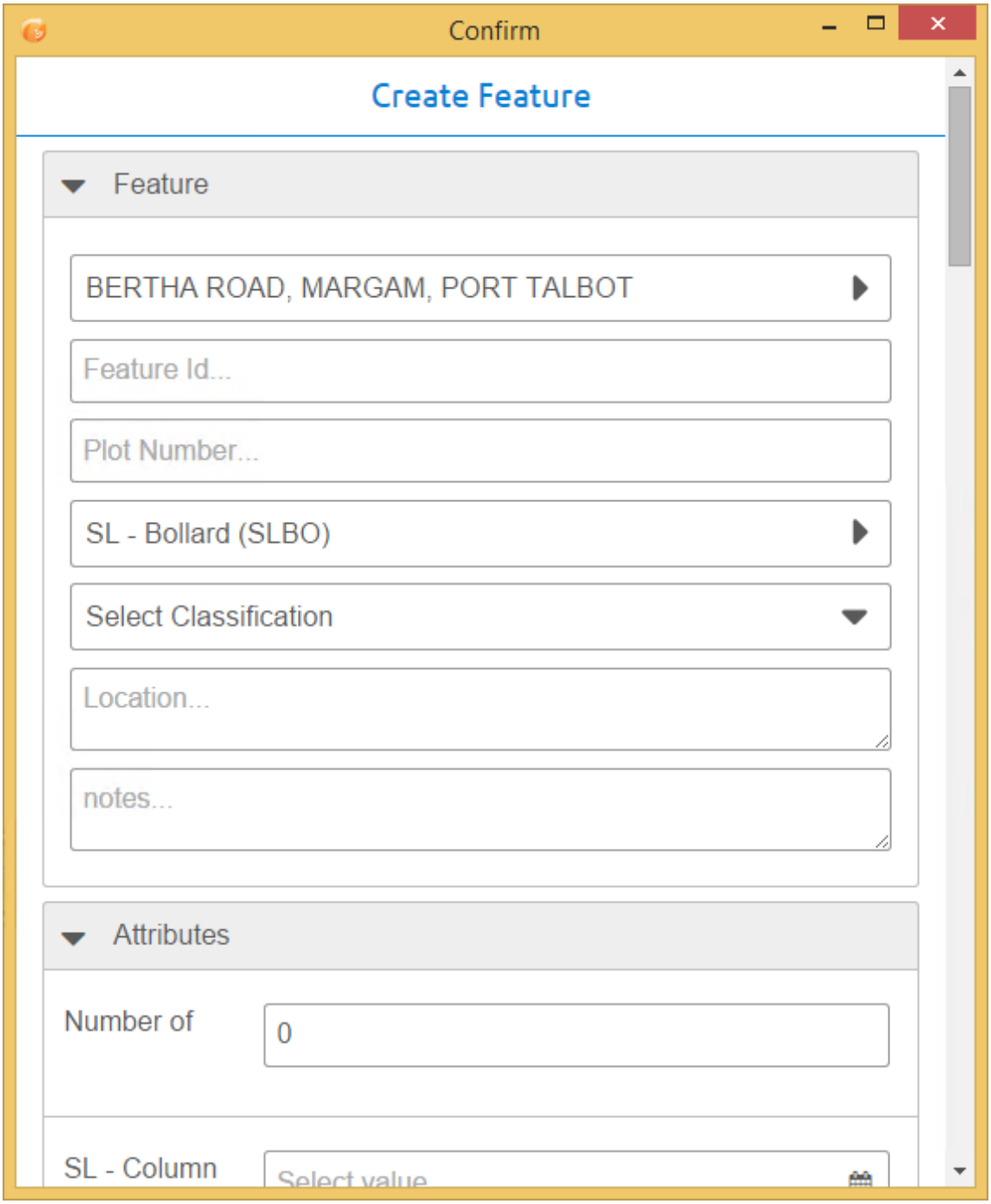
Create / Edit Feature

Once the Map Layer to Confirm Feature configuration has been completed it will be possible to create or edit a feature on the map layer and send the updated details back to Confirm, this process will also sync the details back to the map layer.

Note: The Create / Edit Feature option is not available in the Confirm Mapping Interface for ArcGIS Pro.

Creating a new feature

Once a new feature has been created in a map layer, it is then necessary to create that feature in Confirm. To do this, select the newly created feature. Click on the Create / Edit Feature button, this will launch the Create Feature form.



Note: In ArcMap you must finish editing before using this tool.

Within the Create Feature form you will be able to set the features details as per the form. The "Site" and "Feature Type" fields, shown as "Bertha Road, Margam, Port Talbot" and "SL - Bollard (SLBO)" in the above screenshot, are mandatory and must be entered before being able to complete the feature.

Note: Some of the Attributes may also be mandatory and are shown as highlighted in red. These will also need to be populated before you are able to complete the feature.

Once the feature is complete the form will close after a short time indicating the feature has been created, a Sync is then automatically performed to populate all fields linked to the map layer for all features that have changes since the last sync.

Editing an existing feature

Editing an existing feature works much in the same was as creating a new one, the only difference being is that you do not need to create the feature prior to using the Create / Edit button. Simply select your existing mapped feature and click the Create / Edit button. The Edit Feature form will appear containing all of the existing feature details pre-populated. Make the required changes and Complete the feature. A Sync is again performed to update all the mapped feature details with the new changes you've just made.

Update Multiple Features in Confirm

Once the Map Layer to Confirm Feature configuration has been completed it will be possible to update one or more features in Confirm using data stored in the Map Layer columns without needing to manually populate a user interface.

The "Update Multiple Features in Confirm" button is enabled when one or more features are selected on the map.

Using the map selection tools, it is possible to select multiple features and send the mapped details (shown in the Feature and Feature Attribute lists below) to Confirm.

Note: A maximum of 300 features may be selected, should you exceed this number the tool will not be available.

When the selection contains new Features, those which do not currently exist in Confirm and which do not already contain a Site Code value, you will be prompted to select a Site against which these new Features will be created.

Note: This tool relies a single layer linked with a single Feature Group. If two layers are linked to the same Feature Group, features on that layer will be ignored.

The following fields are updated in Confirm when using this tool:

- Feature Fields
  - Location
  - Notes
  - Feature Id
  - Dead Flag
  - Feature Type Code
  - Geometry
- Feature Attribute Fields
  - Pick Attribute Code
  - Text Attribute Value
  - Measurement Value
  - Date Value

Once the upload is complete, a confirmation window will appear indicating its success or any errors should they occur.

Creating New Features

Using this tool to create new Features requires the following conditions to be met:

- Feature Type Code must be **linked to the layer** and a value entered for each new Feature in the selection.

Note: In ArcMap, it is possible to setup one or more feature templates for each map layer to automatically populate the Feature Type Code as the features are drawn.

- The Feature Type of the new Feature/s must exist in the **linked Feature Group**.
- All new Features in the selection must belong to the same Site or alternatively each Feature's Site Code must already be populated in the layer.

Note: The selection may still contain 'existing' Features on multiple sites.

Note: Mandatory attributes are not enforced when creating Features using this method. Users can use the singe feature **Create/Edit button** to ensure that mandatory attributes are always included.

GAAS Integration With Confirm

Installation

Pre-requisites for Enabling Tenant

For existing tenants that needs to be enabled in GIS to utilize spatial services. For doing so,the On-Demand customer would need to raise a ticket with the support team.

For GIS services to function correctly, the tenant needs to be enabled from the GIS side. We will need to provide tenant information and GIS Authorization details to enable the tenant.

Adding Connection with ESRI

To start with 2-way sync, user will need to create a connection. To do so, they can click on “Add Connection" on top right of the screen. Fill in all the fields as per requirement.

1. Give a connection name.
2. For connection with ESRI, connection type selected should be esri.
3. Enter the URL for ArcGIS
4. To create authenticated connections, enter username and password.
5. To create unauthenticated connections, username and password can be skipped.
6. Finally click on Add Connection present on the bottom of the screen.

Once the connection is created, it is available on Confirm GIS mapping screen.

Adding Layers

Begin adding layers by clicking on Add Layer button present in the tab for one’s respective connection.

Wait for Supported Layers to load. The supported Layers are populated using the /rest/services endpoint of ESRI. Based on the information provided while creating connection, the respective layers are fetched from ESRI. User can select any layer from dropdown.

Layer name is populated by default based on the name of supported layers. User can edit the name to suit their needs.

Click on Save after all editing is done. The saved layer can be accessed by clicking on dropdown of connection under which it was created.

Entity Field Mappings

Connection and Layers are created now. The next step for 2-way sync is to do entity field mappings. User can now click on Edit Layer available to the right of layer name Select the Feature Group from the dropdown.

Once the Feature Group is selected, entity fields are made available to the user to be selected from dropdown. The mandatory fields are pre-selected and displayed by default.

The user can select only one field at a time from Entity field dropdown. Select a field and click on Add. User can add n number of entity mappings one by one.

Now select the relevant field (from Esri side) in GIS Field column and decide the sync direction.

Select GIS mapping Fields

Do it for all the selected fields and click on save. This will trigger the sync in the direction mentioned for each field.

Final entity mapping will be between Confirm and GIS entity fields. Any changes made to Confirm fields like Feature Type Code, Site Code, Central AssetId, Location etc will be mapped to GIS fields FTC, SiteCode,CAID,Loc respectively in ESRI

Data Sync

If any changes are made in ESRI or CONFIRM in the fields mapped during entity mapping, the changes will get reflected on the other app if 2 Way Sync was selected in sync direction. If only GIS to App or App to GIS were selected, then changes will be reflected in that direction.

Troubleshooting

See the log file for details

It is possible for a message to appear asking to review log file for further details. This log file can be found in the users appdata directory. For example: %localappdata%\ConfirmMappingInterface.

This can occur where the data from Confirm will not import into the Map layer because the data was too big for the layer. For example: The Features notes field may be linked to a map layer column which only allows 100 characters but Confirm allows up to 2000.

In this scenario it is advised to work with the Confirm administrator to check the data types you are setting up in the Map layers will cater for the data fields in Confirm. The Schema Report tool in Confirm can be used to identify data fields to help with this task.