

Unified Pipeline Tools add-in

This add-in is designed to work with ArcGIS Pro 3.1.

When working with Pipeline Referencing and Utility Network data, you can access commonly used tools from both capabilities in one ribbon with the Unified Pipeline Tools add-in. Once installed, you can also customize the add-in in ArcGIS Pro.

Before the add-in, common workflows required that you switch between different ribbons.

The following are examples of workflows that are supported with the add-in:

- **Validate** network topology for a dirty area created by pipeline realignment:

Explore – Create Features – Realign Route - Validate

- Set up connectivity and create route after new pipelines are placed:

Terminal Connections - Modify Controller – Validate – Create Route

Installation

To use the Unified Pipeline Tools add-in with ArcGIS Pro, you will need to first download compressed file contents, extract the folder containing the installer, and run the installer.

The following steps outline this in detail:

1. Download the contents from [this location](#).
2. Close any ArcGIS Pro projects that are open.
3. Browse to the downloaded UnifiedPipelineTools folder and extract its contents.
4. Browse to and double-click **UnifiedPipelineTools.esriAddInX** to run the installer.
5. Click **Install Add-In** on the **Esri ArcGIS Add-In Installation Utility** dialog box.
The add-in is installed.
6. Click **OK**.
7. Open ArcGIS Pro.

After the add-in is installed, it shows up as a ribbon on the ArcGIS Pro ribbon. The Utility Pipeline Data Model (UPDM) solution is not required to use the add-in. The availability of tools in the add-in is determined by the associated data and licenses.

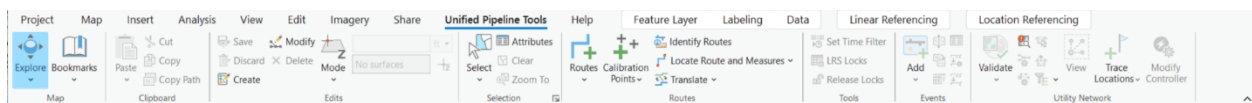































Figure 1 Unified Pipeline Tools ribbon after the add-in is installed


















Note:









You can also choose to further [manage](#) the Unified Pipeline Tools add-in in ArcGIS Pro.

Tools in the Unified Pipeline Tools ribbon

Tool	Description
Navigate and Edit tools	
Explore 	Move, pan, identify feature attributes via a pop-up , and zoom in and out of maps and scenes.
Bookmarks 	<p>Open the gallery of existing bookmarks and the options to manage them or create more.</p> <p>Bookmarks are navigation shortcuts to a position on a map or perspective in a scene that you can quickly return to or share with others.</p>
Copy 	Copy selected features to the clipboard.
Paste 	Paste features from the clipboard to the same layer.
Cut 	Copy selected features to the clipboard and remove the selected features from the source map.
Copy Path 	Copy the path of selected features to the clipboard.
Create 	Open the Create Features pane containing feature templates with which you can create features.
Modify 	Open the Modify Features pane  containing standard editing tools as well as specialized tools available with extensions.
Delete 	Delete selected features or parts of a multipart feature.
Save 	Save the edits you make to a map or a scene including added or removed layers or maps, and changes to data sources.
Discard 	Discard the edits you make to a map or a scene including added or removed layers or maps, and changes to data sources.
Mode 	Assign default z-values when you create z-aware features, or set the elevation mode to apply a constant z-value, or get z-values dynamically from an elevation surface layer .
Elevation value	Provide a z-value to be set as the constant elevation for the newly created features.
Map Surfaces	Select a surface from the available elevation map surfaces to get z-values from the map.

Get Z From View 	Obtain a constant elevation from the available map surfaces.
Select 	Select features on the map or choose a selection method.
Attributes 	View attribute values or edit them in the Attributes pane.
Clear 	Clear selected features.
Zoom To 	Zoom to selected features.
Pipeline Referencing tools	
Create Route 	Create routes in an LRS Network using centerline features that define the location and geometry of a route.
Extend Route 	Extend a route in ArcGIS Pipeline Referencing by adding length to the beginning or end of it.
Realign Route 	Realign a single route or several adjoining routes that are part of the same line.
Reassign Route 	Reassign all or a portion of a route or line to the immediate upstream or downstream of another route or line.
Retire Route 	Retire a route segment, an entire route, or multiple adjoining routes that belong to the same line for the specified time frame.
Reverse Route 	Reverse the route direction.
Add Calibration Points 	Add calibration points to a route.
Edit Calibration Points 	Edit and modify route calibration points.
Delete Calibration Points 	Delete calibration points on a route.
Identify Routes 	Identify routes, their measures, and locking information. Click the Identify Routes tool  and then a route.
Locate Route and Measures	Search for a route and locate measures on it.

	
Translate 	Translate between route ID and route name, as well as line ID and line name. Measures can also be translated between coincident or intersecting routes of the same or different networks.
Set Time Filter 	Configure the time view for LRS-managed layers.
LRS Locks 	Review and release line, route, and event locks.
Release Locks 	Release any lock whose releasable state value is Yes . Learn more about releasable states
Add Events	Add events of the following type: <ul style="list-style-type: none"> • Point  • Line  • Multiple points  • Multiple lines 
Split 	Split a line event into two adjoining events.
Merge 	Combine multiple adjoining events into a target event.
DynSeg 	Create an output where the events on a route are dynamically segmented together into one record set. The tool returns separate records at any measure along the event where any of the attributes change.
Attribute Sets 	Use a collection of event layer attributes to create multiple events with a set of additional, organization-specific attributes in a single edit.
Configure Replacement 	Categorize event layers before event replacement. The measures for the route do not change during event replacement.
Replace 	Update events that were part of a replaced pipe using an event replacement configuration that groups event layers so that multiple events can be retired or replaced by new events in a single editing operation.
Utility Network tools	
Validate 	Keep the network topology updated for analytic events. Dirty areas serve as an indicator that the content you see on the map does not match what is stored in the network topology.
Error Inspector 	Validate and fix geodatabase topology errors individually or several at one time.

Terminal Connections 	Set a terminal connection between a line and a terminal on a device feature, change the terminal to which the line is connected, or disconnect a line from a device terminal.
Modify 	Launch the Modify Associations pane to manage containment associations between existing network features.
Enter Containment 	Enter the containment edit mode to automatically create the containment association when creating content features inside an existing container.
Exit Containment 	Exit containment edit mode.
Display Content 	Show or hide containment association content . This enables or disables display filters configured using the association status attribute to turn content feature display on and off based on their visibility property.
View 	View connectivity or structural attachment associations on the map.
Trace Locations 	Set starting points, barriers, or clear all trace locations.
Modify Controller 	Modify an existing subnetwork controller in the Modify Subnetwork Controller pane.