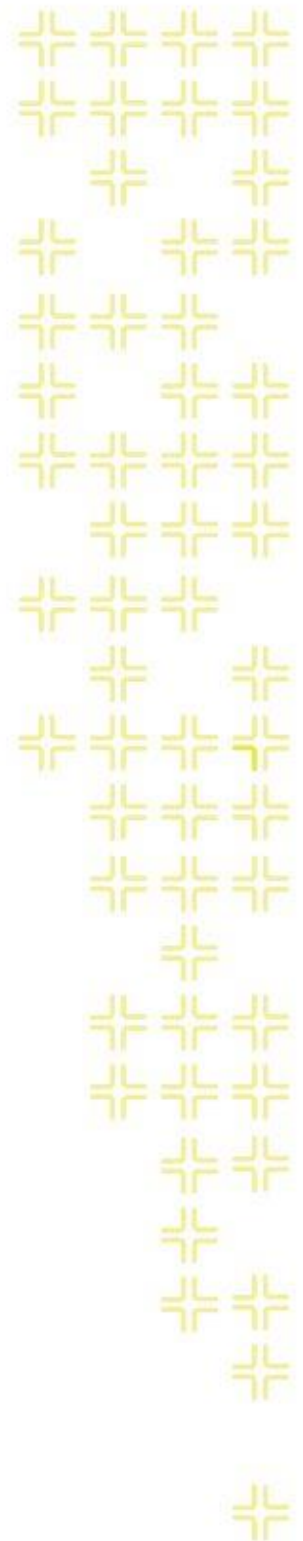




TRAINING GUIDE

# GIS Session Preview (New Features) 2017 and 2017r2



# GIS Session Preview (New Features) 2017 and 2017r2

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In this session, we'll provide an overview of GIS changes since ACT 2016 and a sneak peek at what will be covered in each of the ACT 2017 GIS sessions.

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# General Changes

## 2017

- Added support for ArcGIS 10.5
- Create Work Order and PM/Template tools in ArcGIS Desktop and Lucity Web Map have been modified to support the new link between assets and their associated location records. If the *Copy Address from Asset* work option is enabled, the tool will link the asset to the location record. As a result if the asset is later removed, the associated location will also be removed from the work order or pm/template.

## 2017r2

- Added support for ArcGIS 10.5.1
- The Lucity SOE option has been removed. All Lucity to GIS updates must now be done via feature services.
- New ArcGIS Portal Integration
  - Now supports single sign-on (SSO) into Lucity using ArcGIS credentials.

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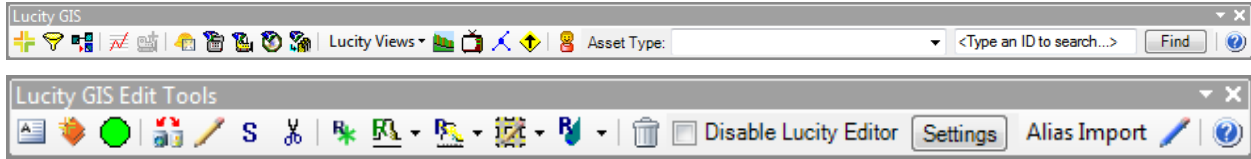
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# ArcMap Changes



## *Tools added or modified for 2017*

Button	Name	Description
	Lucity Editor Extension	Supports street light library fields
	Link Supersegment features	New tool that allows users to manage supersegment links. Linking supersegments is a way to force the Pavement model to select a group of supersegments for work at the same time.
	View Live PM Locations	New tool that adds a live layer of pm/work template locations to the map.
	View Live Master Project Locations	New tool that adds a live layer of master project locations to the map.

## *Tools added or modified for 2017r2*

Button	Name	Description
	View Live Project Locations	New tool that adds a live layer of project locations to the map.

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# ArcCatalog Changes

## *Tools added or modified for 2017*

<b>Name</b>	<b>Description</b>
QA/QC tool	Includes a new test that checks for non-simple geometry and provides information about the assets the tool identified.
Street Light Library Domains	New tool in Geodatabase Configuration that will create a GIS domain using records in the Lucity Street Light Library module
GIS Scheduled Tasks	Now handles updates to Tree and Street Light Library fields.

## *Tools added or modified for 2017r2*

<b>Name</b>	<b>Description</b>
Update Geodatabase Value tool	Now supports updating GIS fields mapped to the Lucity AutoID field

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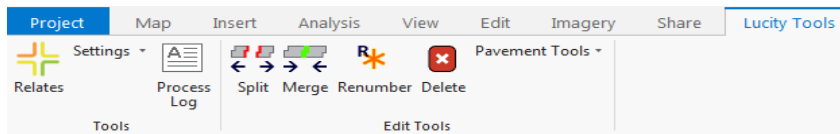
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# ArcGIS Pro Changes



## Tools added or modified for 2017

Button	Name	Description
	<b>Split tool</b>	New tool to perform splitting of sewer, storm, and water pipe features.
	<b>Merge tool</b>	New tool to perform merging of sewer, storm, and water pipe features.
	<b>Renumber tool</b>	New tool to perform renumbering of many types of assets.
	<b>Process Log</b>	A new dockable window that displays the log for Lucity tools
		Lucity ArcGIS Pro Add-in released with 2017r2 requires ArcGIS Pro 1.4 or earlier. ArcGIS Pro 2.0 is not supported.

## Tools added or modified for 2017r2

Button	Name	Description
	<b>Delete tool</b>	A new tool that will delete assets from both GIS and Lucity.
	<b>Split tool</b>	The split tool has been modified to support splitting of street segment and subsegment features.
	<b>Merge tool</b>	The merge tool has been modified to support merging of street segment and subsegment features.
	<b>Recreate Subsegment Features(s) tool</b>	New tool to recreate subsegment features in GIS based upon the information in Lucity.
	<b>Documents tool</b>	Tools have been added to view, upload, edit, and delete documents.
	<b>Export current map view option</b>	New option when creating a request, work order, pm/work template to export map view and attach it as a document
		<b>Lucity ArcGIS Pro Add-in released with 2017r2 requires ArcGIS Pro 2.0</b>

# Lucity Spatial

## 2017

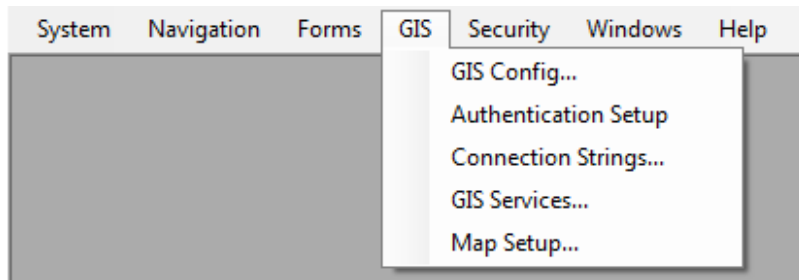
- Now stores location information for pm/work templates and master projects. This enhancement enables the View Live PM Locations, View Live Master Project Locations, and Dashboard Map functions to display these assets.
- Now supports multi-part line and polygon features.
- New functionality in the Data Quality Tools to review and resolve issues with the Lucity spatial tables
  - A new query in the spatial suite of the Data Quality (DQS) tool, allowing user to view all records inside WKSPATIALCHANGE
  - A new option in DQS allowing the user to submit WKSPATIALCHANGE records to be re-processed

## 2017r2

- Now stores location information for the following modules:
  - Work Permits
  - Work Project Assets
  - Water Flushing Routes (Hydrants, Valves, Pipes)
  - Street Route Assets
  - Sewer TV Observations
  - Sewer PACP Observations
  - Storm TV Observations
  - Storm PACP Observations

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# Lucy Administration Tool Changes



*Tools added or modified for 2017r2 (no changes made in 2017)*

Name	Description
GIS Services	<ul style="list-style-type: none"> <li>Removed the ExternalUrl property (Mobile Url) from Map Services</li> <li>New option to specify printing service used with the new Lucy webmap</li> </ul>
System Settings	<ul style="list-style-type: none"> <li>New option to send email notifications when issues occur connecting to a GIS Service</li> <li>New GIS Portal system settings used for Esri SSO and new Lucy webmap</li> </ul>

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# Lucity Web Map Changes

## *Tools added or modified for 2017*

- The show in map logic for sewer overflows has changed. Associated address, pipes, structures, and laterals will be displayed in the map.
- Removed all launch desktop app options
- 2017 is the last Lucity version which will contain the webmap built on the ArcGIS Silverlight API

## *Tools added or modified for 2017r2*

- A completely new webmap has been released in version 2017r2 built on the ArcGIS Javascript 4.0 API
- The following is a list of feature differences between the new 2017r2 webmap and previous version:

### **Tools which are not present**

- No measure tools (est 2018)
- No redlining (2018 SP1)
- No editing (2018 SP1)
- No routing (not planned)
- No customer search tool
- No property viewer tool
- No property ID Tag search tool

### **Secure Services Changes**

- We will no longer auto-login in the Lucity Web GIS application to any 10.5+ services. If the services are federated to their portal and the user is logged into the portal, they should not need to login. This does not affect mobile and does not affect ArcGIS Server services on versions prior to 10.5.
- We will still auto-login from mobile for 2017r2 and we will still auto-login for unattended services such as the GIS Tasks which run from the Services machine.

### **Data Grid/Selection Differences**

- Selection only supports box selection
- Selection is always “add to selection” in the map but selection is replace selection in the grid (2018)
- We are using the concept of a true data grid selection (in the pre17r2 version we had no concept of an unselected grid record, we had a grid record = selection and we had highlighted records)
- No highlight concept right now
- We do not auto-render hyperlinks in grids (2018)

### **Water trace**

- No email notifications in water trace (2018)

### Show in map

- Show in map will not fall back to address or XY if an asset is not found (2018)

### Module Spatial/ Show Work Locations

- Module Spatial tools (show work locations replacement) does not support the limit extent feature (2018)
- No clustering renderers (2018)
- We do not display images in the module spatial popup (2018)

### Popups/Identify

- There is no document preview in identify
- The create work order and request tools are not in identify but are accessible from the selection, from the data grid, or from the module tab
- There is no disable identify
- We do not auto-render hyperlinks (but clients can it)

### Layers

- Layers do not remember visibility
- Layers do not support selectability settings (maybe 2018)
- Opacity slider is not available
- Zoom to layer not available
- Remove layer is not available
- Bing Maps are not supported

### Subsets

- No loading address subsets (2018)
- Subsets do not create ordered (this was also a bug on the non GIS portion of the app) (2017r2 sp1)
- Subsets do not support loading as a layer

### Dashboard

- We support Lucity maps but not Lucity basemaps (this is not a change from 17), but it is an inconsistency between dashboard maps and the gis views
- Popups on plotted features are inconsistent (est 2017r2 sp1)

### Work Order Integration

- You cannot create a request or a work order from an address search result (2018)
- Cannot create a new work order, request, or PM/Template from an XY point (2017r2 SP1)

### Printing

- Printing is only supported if the portal you are using has access to your services
- Printing is only supported if you have a Print Service (10.4+)

### Miscellaneous

- We do not have a troubleshooting log of what layers are in Lucity (2018)
- We do not have zoom previous buttons (not planned)
- No rotate display capability
- No reset North (because there is no rotate)
- No show current position/coordinate component