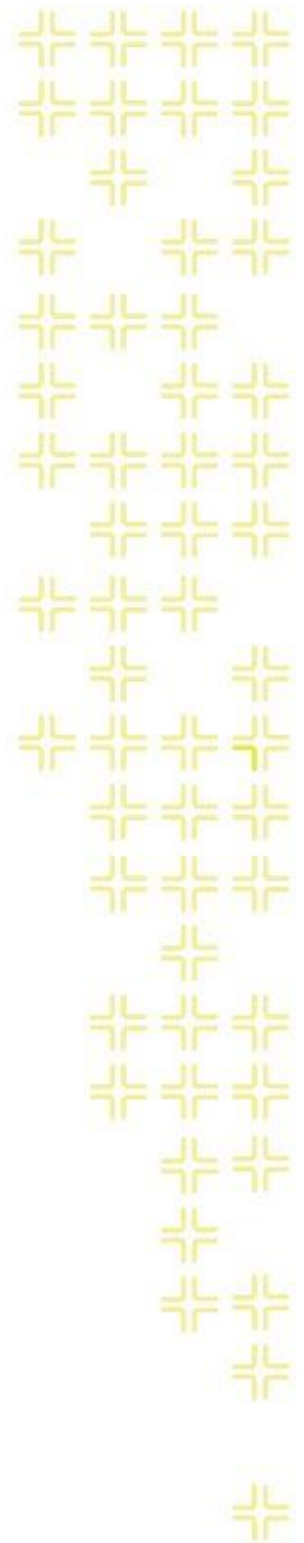




TRAINING GUIDE

# GIS Session Preview (New Features) 2018 and 2018r2



# GIS Session Preview (New Features) 2018 and 2018r2

In this session, we'll provide an overview of GIS changes since ACT 2017 and a sneak peek at what will be covered in each of the ACT 2018 GIS sessions.

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## General Changes

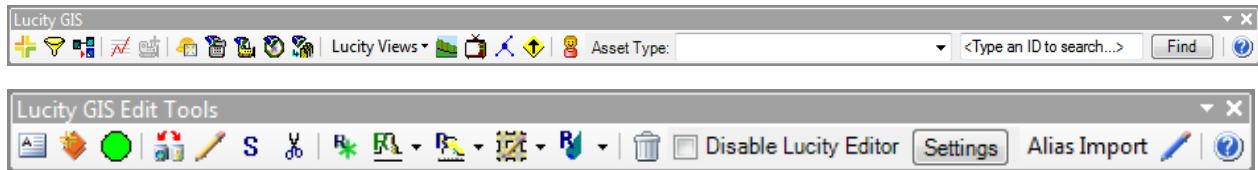
### 2018

- Added support for ArcGIS 10.6
- Support for integration with Esri's Citizen Reporter
- Ability to designate the Lucity GIS integrated fields as an import or export field
- Ability to integrate the following module to GIS:
  - Sewer Piers
  - Park Electrical Assets
  - Park Docks
  - Fiber Optic Trench
  - Fiber Optic Conduit
  - Fiber Optic Cable
  - Fiber Optic Slack Loop
  - Fiber Optic Structure

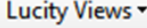
### 2018r2

- Added support for ArcGIS 10.6.1
- Ability to integrate the following modules to GIS:
  - Easements
  - Storm Laterals
  - CP Test Stations


## ArcMap Changes



### Tools added or modified for 2018

Button	Name	Description
	<b>View Street Modelling Results</b>	<ul style="list-style-type: none"> <li>New option to run view against supersegments instead of subsegments</li> <li>New tools to interact with results allowing users to alter the year and rehab method</li> </ul>

### Tools added or modified for 2018r2

Button	Name	Description
	<b>Renumbrer tools</b>	New option to use number generator

## ArcCatalog Changes

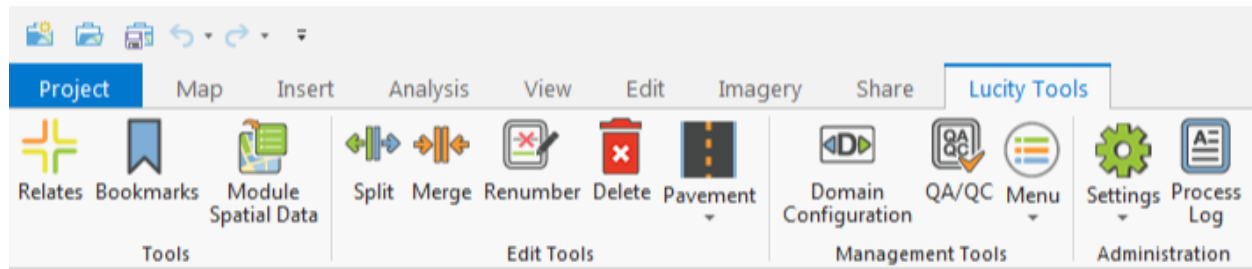
### Tools added or modified for 2018

Name	Description
Geodatabase Configuration Tool	New import and export properties added to the Field Mappings grid

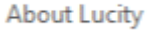

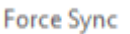



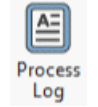
### Tools added or modified for 2018r2


Name	Description
Geodatabase Configuration Tool	<ul style="list-style-type: none"> <li>Tree Library Domain tool now uses TZ_CODE instead of TZ_COMMON as the code.</li> <li>Adds ability to print and save domain validation results</li> <li>Adds support for GIS Subtypes</li> </ul>
Update Geodatabase Values	<ul style="list-style-type: none"> <li>Adds option to update GIS values to null if they are null in Lucity</li> </ul>

## ArcGIS Pro Changes

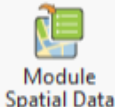
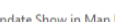



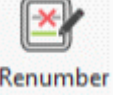


### Tools added or modified for 2018

Button	Name	Description
	<b>About Lucity</b>	Provides version and other information about the Lucity ArcGIS Pro Add-in
	<b>Domain Configuration</b>	New tool to modify Lucity picklists along with the associated GIS domains
	<b>Force Sync</b>	New tool that creates a temporary GIS Scheduled Task to force sync the selected features with Lucity
	<b>QA/QC</b>	New tool that performs various data quality tests against a selected layer from the map
	<b>Pavement Tools</b>	New tools for pavement management: <ul style="list-style-type: none"> <li>• Supersegment Define</li> <li>• Supersegment Dissolve</li> <li>• Supersegment Generate</li> <li>• Supersegment Link/Unlink</li> </ul>
	<b>Merge Tool</b>	Merge tool now supports using longer pipe to copy attributes
	<b>Process Log</b>	The process log results now offer the ability to persist to disk

	<b>Relates Tool</b>	Now uses the GIS display field configured with Lucy instead of the feature's ObjectID when showing features
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#### Tools added or modified for 2018r2

Button	Name	Description
	<b>Module Spatial Layer</b>	A new tool to easily display work and inspection location data.
	<b>Update Show in Map Flag</b>	New tool that updates the Show in Map flag field in Lucy based on if the feature exists in GIS.
	<b>Update GIS Values</b>	New tool that updates records in GIS with data from the corresponding Lucy records.
	<b>Bookmarks</b>	New tool to create, view, and manage bookmarks shared with Lucy applications.
	<b>Relates</b>	Added ability to create req/wo/pm against an XY. Also added the ability to add an xy to an existing wo/pm.
	<b>Renumbr tool</b>	Added support for the vast majority of Lucy asset inventory modules.

## Lucity Spatial

### 2018r2 (no changes made in 2018)

- Continuous Defects for Sewer/Storm TV/PACP Observations are now displayed as polylines instead of points
- Now stores location information for the following modules:
  - Mainbreaks (water, raw, recycled)
  - Sewer Overflows
  - Sidewalk Observations
  - Sewer Smoke Test Observations
  - Sewer Building Observations
- All Lucity Spatial enabled modules now have a toolkit item to force spatial record processing. This includes the following:
  - Work: Requests, Work Orders, PM/Templates, Mast Project Management, Sub Project Management, Work Permits
  - Water: Water Flushing Routes, Water Mainbreaks, Recycled Mainbreaks, Raw Mainbreaks
  - Street: Street Routes, Sidewalk Inspections
  - Sewer: PACP Inspections, TV Inspections, Smoke Testing, Building Inspections, Sewer Overflows
  - Storm: PACP Inspections, TV Inspections

## Dashboard Map

### 2018

- Added a full screen widget
- Fixes issue that can prevent Locate widget from not being displayed

### 2018r2

- Added support for custom base maps (Portal) when not using a Portal web map



## GIS Scheduled Tasks

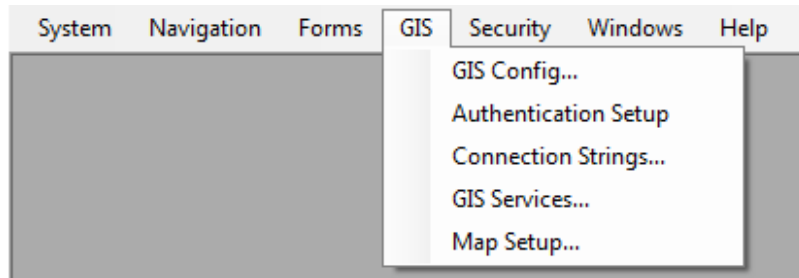
### 2018

- Numerous changes to the import task logic were made so it behaves similar to the ArcMap import logic
  - Street segment imports will now automatically add the street name to Lucity Street Name List if setting is enabled
  - Calculates the Lucity length/area field equal to the shape length/area if setting is enabled
  - Multiple changes for street segment and intersection imports to calculate to/from intersections, street names, intersection diagrams, recreate subsegments, etc.
  - Validates customer address
  - Automatically calculates to/from relationships for: water pipes (distribution, recycled, raw), street mainlines, sewer pipes, storm conduits, park and facility irrigation pipes
- Adds enhancement, so import tasks aren't bound to the max record count limit set on the service. There is now no limit to the number of records processed with GIS to Lucity imports
- Adds enhancement to set the subsegment width and pavement type properties equal to the GIS street segment properties during creation.
- Adds support for a Force Sync option. These types of tasks are created in ArcGIS Pro.

### 2018r2

- Added support for one-way synchronizations. This is for clients that have disabled the Lucity to GIS update capabilities
- Added support for some hardcoded many to many relationships
  - Street Mainline and Conduits
  - Customer Address and Parcels
- The GIS Scheduled Tasks Log Results are now exposed to the Lucity web admin tools.
  - Allows SaaS clients to view the results of the GIS Scheduled Tasks generated from ArcGIS Pro
  - Includes option to delete all records associated with a specific task.

## Lucy Administration Tool Changes



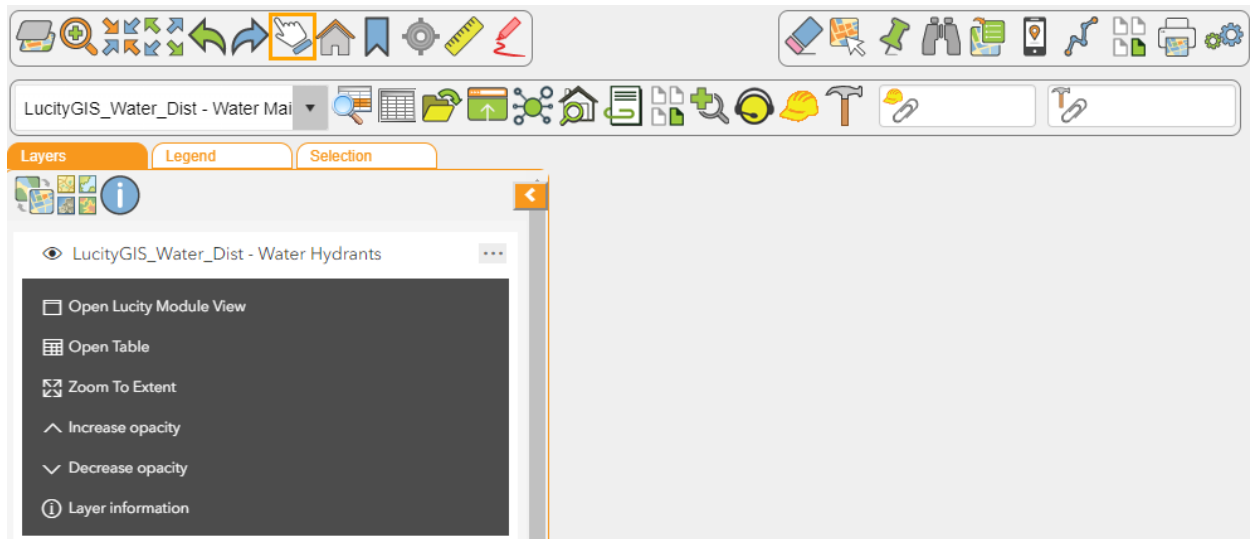
### Tools added or modified for 2018

Name	Description
GIS Config	<ul style="list-style-type: none"><li>Added ability to indicate if GIS linked fields are for import or export only.</li></ul>
Connection Strings	<ul style="list-style-type: none"><li>Allows the user to change the Update GDB property. Previously this was only editable within the ArcCatalog GDB Config tool</li></ul>







### Tools added or modified for 2018r2






Name	Description
GIS Services	<ul style="list-style-type: none"><li>Added a new tab to list the redlining alias names used for redlining in the web map.</li></ul>
System Settings	<ul style="list-style-type: none"><li>Removed some legacy GIS system settings that were no longer used.</li><li>Reorganized GIS system settings: renamed 'GIS Desktop' grouping to 'GIS' and changed the grouping for some existing settings</li><li>New setting to indicate if addresses, xys, or both should be used with the Point Locations tool in the web map</li><li>New setting to make fields marked as Import Only read-only.</li></ul>

## Lucy Web Map Changes
















### Tools added or modified for 2018

Button	Name	Description
	<b>Open Lucy Module View</b>	A new Table of Contents (TOC) tool that will open the Lucy module view for the layer, showing all records.
	<b>Layer Information</b>	A new TOC tool that will open the layer's metadata page.
	<b>Increase and Decrease Opacity</b>	New TOC tools to increase and decrease the opacity of the layer.
	<b>Zoom to Extent</b>	A new TOC tool that zooms to the extent of the layer.
	<b>Map Info</b>	A new Map Info and Validation tool that lists a summary of settings and configurations with the current map.
	<b>Layer Selection</b>	<p>A new tab titled Selection was added to the TOC:</p> <ul style="list-style-type: none"> <li>Ability to set which layers should be selectable in the map</li> <li>Ability to save layer selectability settings to the GIS View</li> <li>Provides new selection options: Add to Current Selection, Create new Selection, Remove from Current Selection, Select from Current Selection</li> </ul>

	<b>Design Mode</b>	<ul style="list-style-type: none"> <li>Includes a new setting to indicate if popups should be auto-generated</li> <li>Most of the web map tools can now be removed/added and saved with the GIS View</li> </ul>
	<b>Open Lucy Record</b>	New tool has been added to popups, that will open the related record in Lucy.
	<b>Find Tool</b>	A new Customer Search option has been added to the Find Tool.
 	<b>Lucy Module View</b>	New functionality has been added to the Lucy Module Views displayed in the map, so the map selection is synchronized with the selection of the Lucy Module View grid.

### Tools added or modified for 2018r2

Button	Name	Description
	<b>Show in Map</b>	<ul style="list-style-type: none"> <li>When launched from a Lucy work order view, the work order number is automatically added to the Add to Work Order tool. Same applies to PM/Template.</li> <li>When launched from a Lucy request view, if the user proceeds to create a request, they will receive a prompt if they want to add it to the existing request.</li> <li>Added support for Work Permit Asset</li> <li>Added support for Construction modules</li> <li>Added advanced logic for equipment and facility modules, to show the location of an asset based upon its parent location.</li> </ul>
	<b>Property Viewer</b>	The Property Viewer tool has been added to the selection toolbar, the layer data grid toolbar, and the Lucy toolset on popups.
	<b>Zoom Previous</b>	New tool to zoom to the previous extent.
	<b>Zoom Next</b>	New tool to zoom to the next extent.

	<b>Bookmarks</b>	New tool to create, view, and edit bookmarks shared with other Lucy applications.
	<b>Measure Tools</b>	A new toolset for measuring linear and polygon features in the map.
	<b>Redlining Tools</b>	A new toolset for adding, editing, and deleting redlining features in the map.
	<b>Mobile Device Locations</b>	New tool to show the locations of mobile devices.
	<b>Subsets</b>	Added support for loading address subsets.
	<b>Point Location tool</b>	Now includes address in addition to xy when adding a point location tool result to a request, work order, and/or pm/template.
	<b>Module Spatial tool</b>	Added option to limit the results based upon the current map extent.
	<b>Open Lucy Record</b>	Tool has been added to the GIS Layer data grid and selection toolbars. This tool will open the associated Lucy record.
	<b>Design Mode</b>	A new Design Mode for Default Views has been added. This customization allows you to assign Lucy Module Views to GIS Views.