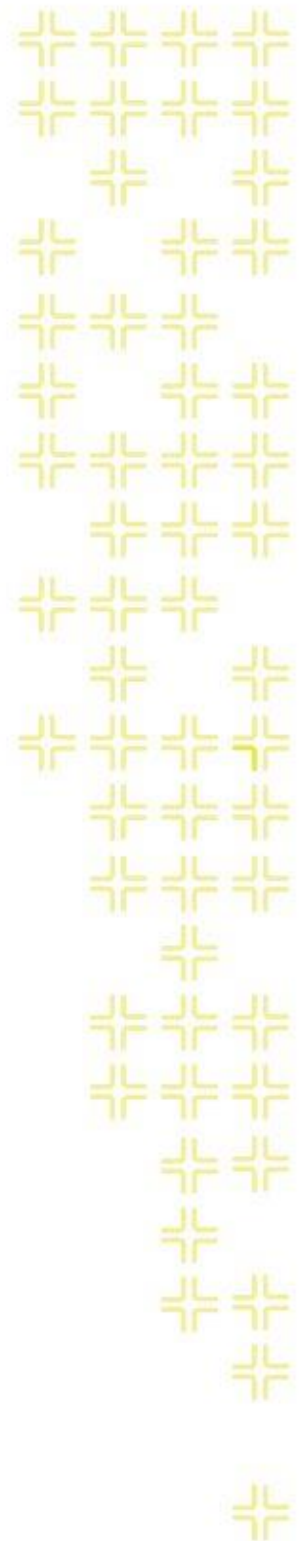




TRAINING GUIDE

# Lucity Web Map Administration



# Lucity Web Map Administration

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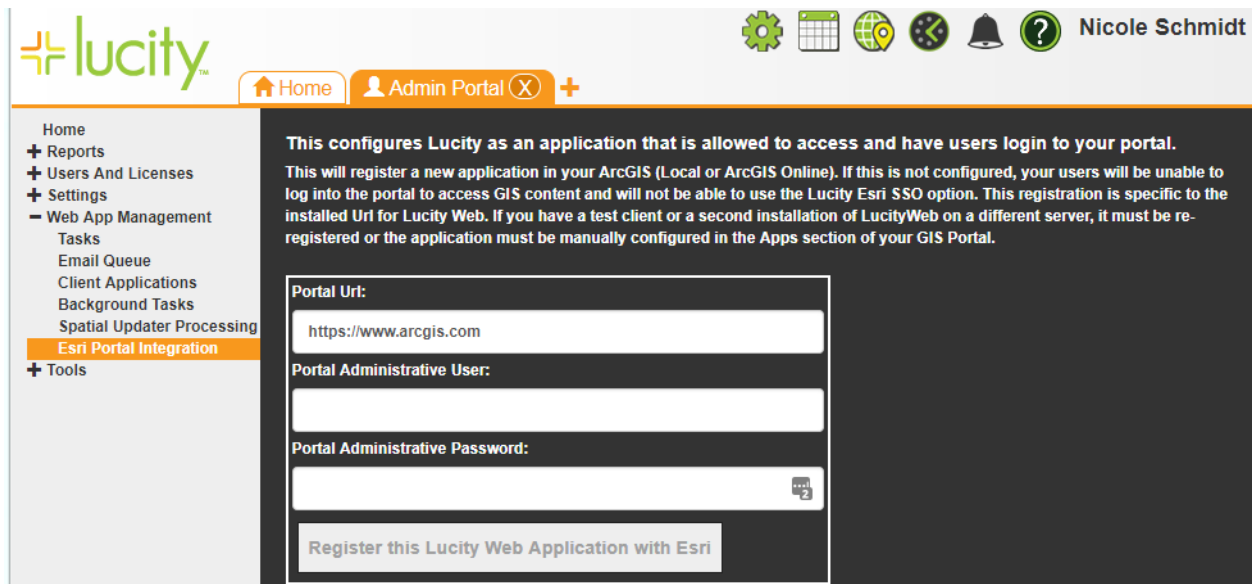
## Portal Config and SSO

Lucity integrates with the Esri portal technology. This can be ArcGIS Online or it can be Portal for ArcGIS Enterprise. Portal integration is currently optional in the web map, but recommended. Enabling SSO is optional.

The Lucity integration with portal requires an application for Lucity Web to be registered in your portal.

## Registering with Portal

To register Lucity with your portal, go to the Esri Portal Integration interface in the Admin Portal under Web App Management.



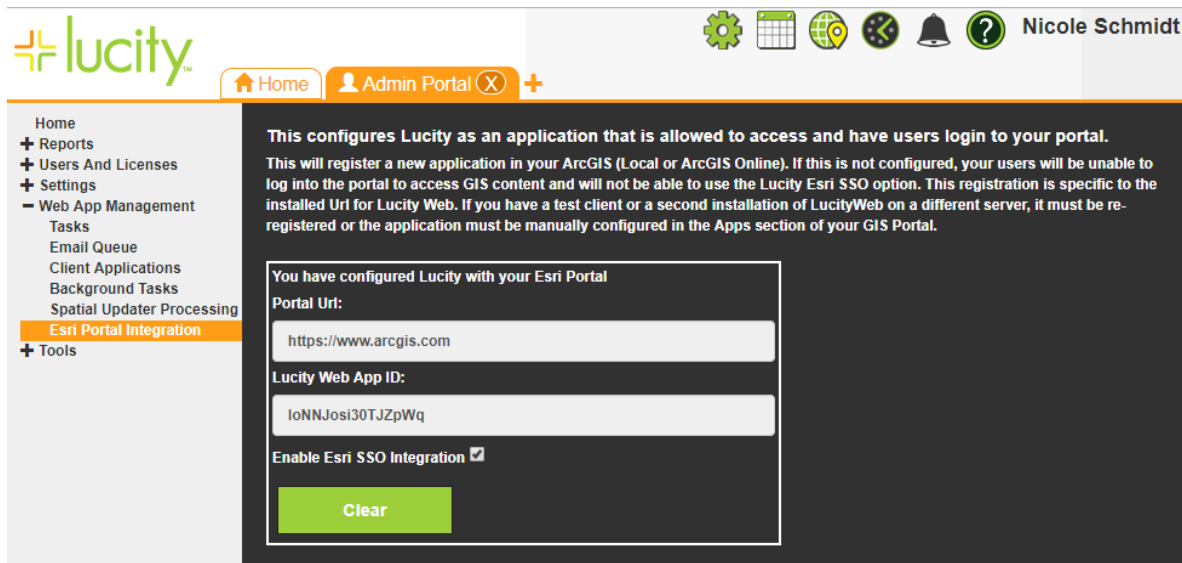
The screenshot shows the Lucity Admin Portal interface. The top navigation bar includes the Lucity logo, a home icon, and a user profile for Nicole Schmidt. The left sidebar lists various administrative options, with 'Esri Portal Integration' highlighted. The main content area displays a configuration form for integrating with an Esri portal. The form includes a 'Portal Url' field with the value 'https://www.arcgis.com', a 'Portal Administrative User' field, and a 'Portal Administrative Password' field with a password strength indicator. A 'Register this Lucity Web Application with Esri' button is at the bottom of the form. A warning message at the top of the form states: 'This configures Lucity as an application that is allowed to access and have users login to your portal. This will register a new application in your ArcGIS (Local or ArcGIS Online). If this is not configured, your users will be unable to log into the portal to access GIS content and will not be able to use the Lucity Esri SSO option. This registration is specific to the installed Uri for Lucity Web. If you have a test client or a second installation of LucityWeb on a different server, it must be re-registered or the application must be manually configured in the Apps section of your GIS Portal.'

If not using ArcGIS Online, change the URL to your local portal URL. This may be something like <https://myserver/portal/> or <https://www.servername.com/server/> depending on what your portal home address is. The 2 above URLs have the following portal home addresses, <https://myserver/portal/home> or <https://www.servername.com/server/home> respectively.

Enter a portal administrative user and password. These are not saved, they are only used during this session to register the application. Note: **Portal administrative user credentials are case sensitive.**

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When the process is completed, the client id is displayed:

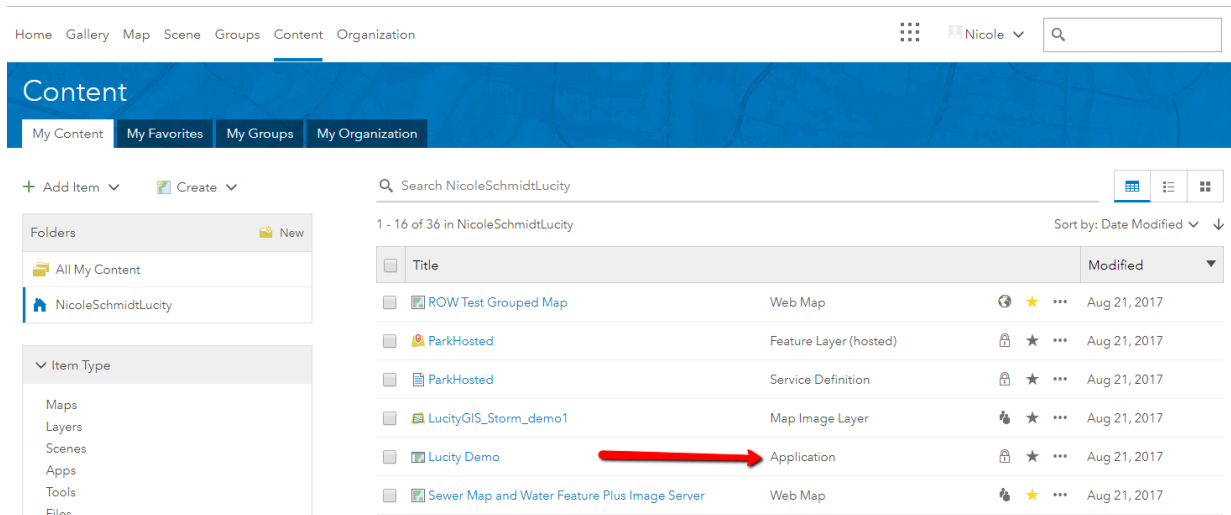


If desired, turn on the SSO integration. This allows users to login with their Esri credentials. Enabling this option enables the button on the Lucy login page. Each user must also be configured with their Esri login credentials in Lucy Security.

The 'User Information' dialog box is shown for the user 'nicole'. It contains the following fields and options: 'User' (nicole), 'First Name' (empty), 'Last Name' (empty), 'Email' (nschmidt@lucity.com), 'Default Rules Group' (Administrator), a checked checkbox for 'Allow Logging on to Lucy with ESRI Logon', 'ESRI Logon ID' (NicoleSchmidtLucity), a checked 'Enabled' checkbox with an unchecked 'Locked' checkbox and a 'Change Password' button, an 'Associated Windows Accounts' section with an empty list and '+ Add' and '- Remove' buttons, a checked checkbox for 'Allow Application Authentication', a checked checkbox for 'Password never expires', an unchecked checkbox for 'User must change password at next logon', and 'Last Login : 8/24/2017 5:52:29 AM'. 'Ok' and 'Cancel' buttons are at the bottom.

## Behind the Scenes

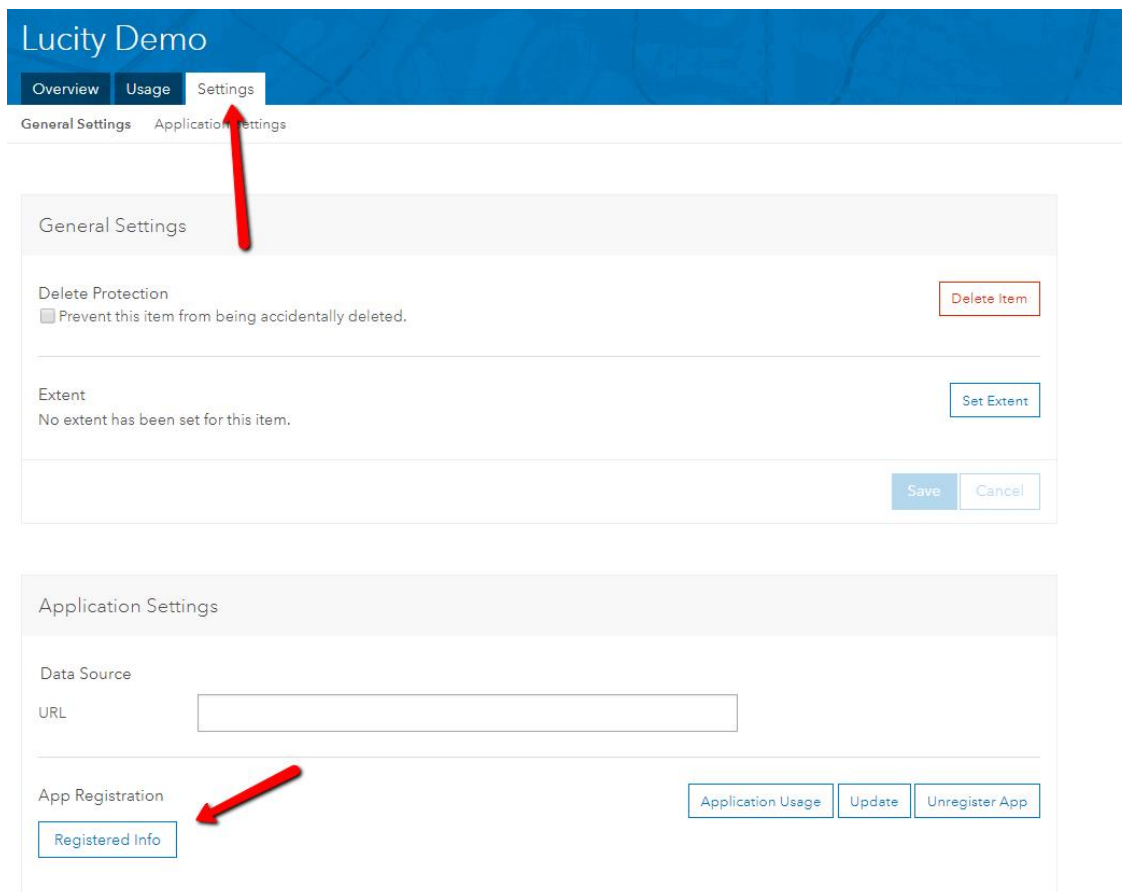
When the automated portal registration is run through the Lucy admin portal, an application is registered with portal which will show up as an App under gallery or content.



The screenshot shows the ArcGIS Content Manager interface. The top navigation bar includes links for Home, Gallery, Map, Scene, Groups, Content, and Organization. The 'Content' section is active, showing a list of items under the user 'NicoleSchmidtLucity'. The list includes items like 'ROW Test Grouped Map', 'ParkHosted', 'LucityGIS\_Storm\_demo1', and 'Lucity Demo'. A red arrow points to the 'Lucity Demo' item, which is of type 'Application'.

Title	Type	Modified
ROW Test Grouped Map	Web Map	Aug 21, 2017
ParkHosted	Feature Layer (hosted)	Aug 21, 2017
ParkHosted	Service Definition	Aug 21, 2017
LucityGIS_Storm_demo1	Map Image Layer	Aug 21, 2017
Lucity Demo	Application	Aug 21, 2017
Sewer Map and Water Feature Plus Image Server	Web Map	Aug 21, 2017

The important part of this application registration is under settings in the item details



The screenshot shows the 'Lucity Demo' item details page. The 'Settings' tab is selected, showing 'General Settings' and 'Application Settings'. A red arrow points to the 'Settings' tab. The 'General Settings' section includes 'Delete Protection' and 'Extent'. The 'Application Settings' section includes 'Data Source' and 'App Registration'. A red arrow points to the 'Registered Info' button in the 'App Registration' section.

**General Settings**

Delete Protection  
☐ Prevent this item from being accidentally deleted.

Extent  
No extent has been set for this item.

**Application Settings**

Data Source  
URL

App Registration  
[Registered Info](#)

[Application Usage](#) [Update](#) [Unregister App](#)

This includes the client Id used by Lucy along with the URL for your Lucy Web environment that handles login redirects. This will always end in “Public/oauth-callback.html”

App Registration

Application Usage Update Unregister App

App ID:

App Secret:  
[Show Secret](#)

App Type:  
Multiple

Redirect URI's:  
[HTTPS://DEMO.LUCITY.NET/LUCITYWEB/Public/oauth-callback.html](https://demo.lucity.net/lucityweb/public/oauth-callback.html)


A generated Id used by Lucy when communicating on your behalf with portal.







A list of websites which can handle a redirect when a user logs in. You can have many.

If you unregister the app, or if you remove a URL, it may cause Lucy to be unable to use the portal integration. If that happens you can reset and create the portal integration details as described below.

### Resetting Portal Integration

To reset the portal integration, go to the Esri Portal Integration in the admin portal and click Clear.



Nicole Schmidt

Home Admin Portal X +

Home

+ Reports

+ Users And Licenses

+ Settings

- Web App Management

- Tasks
- Email Queue
- Client Applications
- Background Tasks
- Spatial Updater Processing

Esri Portal Integration

+ Tools

This configures Lucy as an application that is allowed to access and have users login to your portal.

This will register a new application in your ArcGIS (Local or ArcGIS Online). If this is not configured, your users will be unable to log into the portal to access GIS content and will not be able to use the Lucy Esri SSO option. This registration is specific to the installed Url for Lucy Web. If you have a test client or a second installation of LucyWeb on a different server, it must be re-registered or the application must be manually configured in the Apps section of your GIS Portal.

You have configured Lucy with your Esri Portal

Portal Uri:

Lucity Web App ID:

Enable Esri SSO Integration ☒

Clear

## Single Sign On

Once Enable Esri SSO Integration is enabled, users can log into Lucyty using the “Sign in with ArcGIS” option on the login page.




The login page for Lucyty enterprise asset management software features a green background. At the top left is the Lucyty logo, consisting of a stylized orange and yellow cross-like symbol followed by the word "lucity" in green and "enterprise asset management software" in dark blue. Below the logo, there are two buttons: "Sign in with Windows Authentication" and "Sign in with ArcGIS" (which includes the Esri logo and the text "POWERED BY"). To the right of these buttons are two input fields labeled "username" and "password". An orange "Sign in" button is located at the bottom right of the form area.

Clicking Sign in with ArcGIS will open a prompt that ask the user to enter their Esri credentials

Lucyty Demo wants to access your ArcGIS Online account information

Sign In



Username

Password

SIGN IN

CANCEL

Forgot password?


Forgot username?


OR

Sign in with


ENTERPRISE ACCOUNT

Sign in with





Lucyty Demo developed by:

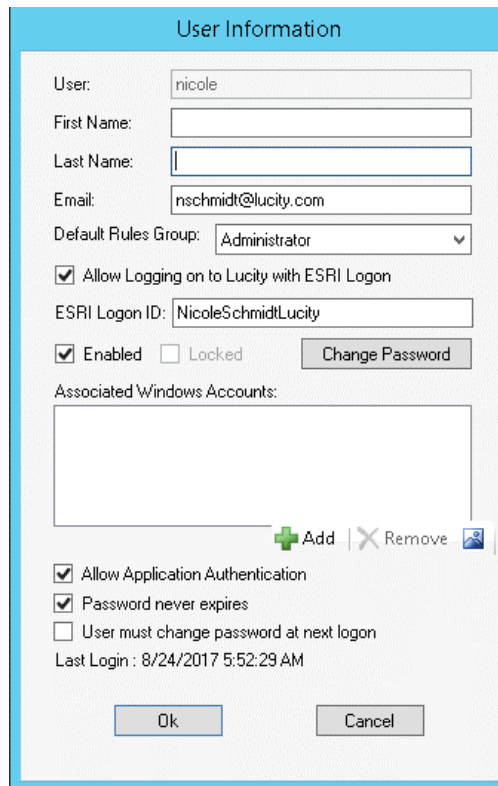


Lucyty Inc.

Lucyty is software for public works, offering solutions and support for hundreds of agencies and thousands of users nationwide.



It will use the Esri login entered to lookup a Lucity user using the Esri account configured in security.



The image shows a 'User Information' dialog box with a blue title bar. It contains several input fields and checkboxes. The 'User' field is filled with 'nicole'. The 'Email' field is filled with 'nschmidt@lucity.com'. The 'Default Rules Group' is a dropdown menu set to 'Administrator'. There are checkboxes for 'Allow Logging on to Lucity with ESRI Logon' (checked), 'Enabled' (checked), and 'Allow Application Authentication' (checked). The 'ESRI Logon ID' field is filled with 'NicoleSchmidtLucity'. Below the 'Associated Windows Accounts' list, there are '+ Add' and 'X Remove' buttons. At the bottom, there are 'Ok' and 'Cancel' buttons.

User Information

User: nicole

First Name:

Last Name:

Email: nschmidt@lucity.com


Default Rules Group: Administrator

☒ Allow Logging on to Lucity with ESRI Logon

ESRI Logon ID: NicoleSchmidtLucity

☒ Enabled ☐ Locked [Change Password](#)

Associated Windows Accounts:

[+ Add](#) [X Remove](#) 

☒ Allow Application Authentication

☒ Password never expires

☐ User must change password at next logon

Last Login : 8/24/2017 5:52:29 AM

[Ok](#) [Cancel](#)

Once logged in with SSO, the user will not need to enter credentials for any services federated with their portal or that are configured to login automatically in their portal.

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## Secured Services

### Logged into Portal and accessing a secured service federated with Portal

Once logged into portal, users will not be prompted for credentials when they try to access secured services on any server that is federated with portal. The exception is if they try to access a secured service you have not granted them access to through the sharing properties of the service in portal.

### Logged into Portal and accessing a Web Map secured service not federated with Portal

If a user is logged into portal but is accessing a secured service that is not federated with portal, the behavior will depend on whether the credentials were saved with the service in portal (this feature only available for Feature Services, not Map Services).

#### Item from the web ?

Reference an item on the Web.

Type:

- |  |                                 |
|--|---------------------------------|
| <input checked="" type="radio"/> ArcGIS Server web service | <input type="radio"/> KML       |
| <input type="radio"/> WMS (OGC)                            | <input type="radio"/> WFS (OGC) |
| <input type="radio"/> WMTS (OGC)                           | <input type="radio"/> Document  |

URL:

A secure service was detected.

Username:

Password:

- ☒ Do not store credentials with service item. Prompt for authentication everytime.
- ☐ Store credentials with service item. Do not prompt for authentication. [Learn](#)

Notes: \_\_\_\_\_

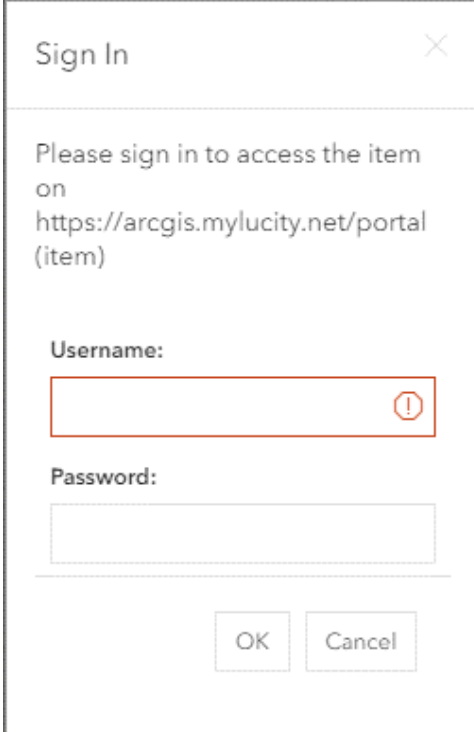
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If it is a Map Service or the credentials were not saved with the service, the user will be prompted for credentials

A screenshot of a 'Sign In' dialog box. The title bar says 'Sign In' with a close button (X) in the top right. The main text says 'Please sign in to access the item on https://arcgis.mylucity.net/portal (item)'. Below this are two input fields: 'Username:' and 'Password:'. The 'Username:' field is highlighted with a red border and has a red warning icon (exclamation mark in a circle) on the right. At the bottom are 'OK' and 'Cancel' buttons.

Sign In

Please sign in to access the item on  
https://arcgis.mylucity.net/portal  
(item)

Username:

Password:

OK Cancel

## Lucity Maps vs Web Maps

The Lucity Web interface is optimized for use with “web maps”. To be able to use “web maps”, you must be using portal (ArcGIS Online or have upgraded to 10.5+ and using portal for ArcGIS Enterprise) and must have web maps authored and available for your users. These web maps can reference ArcGIS Server services on older ArcGIS Server versions, if needed. It is not necessary for an ArcGIS Server service to be publicly accessible to deploy web maps using ArcGIS Online to your enterprise.

If you have not upgraded to 10.5+ yet or are not ready to configure web maps in ArcGIS Online, you can use the old-style “Lucity Maps” during the transition.

The Lucity mobile products currently still require Lucity Maps. These will be transitioned to web maps in the next 9 to 12 months.

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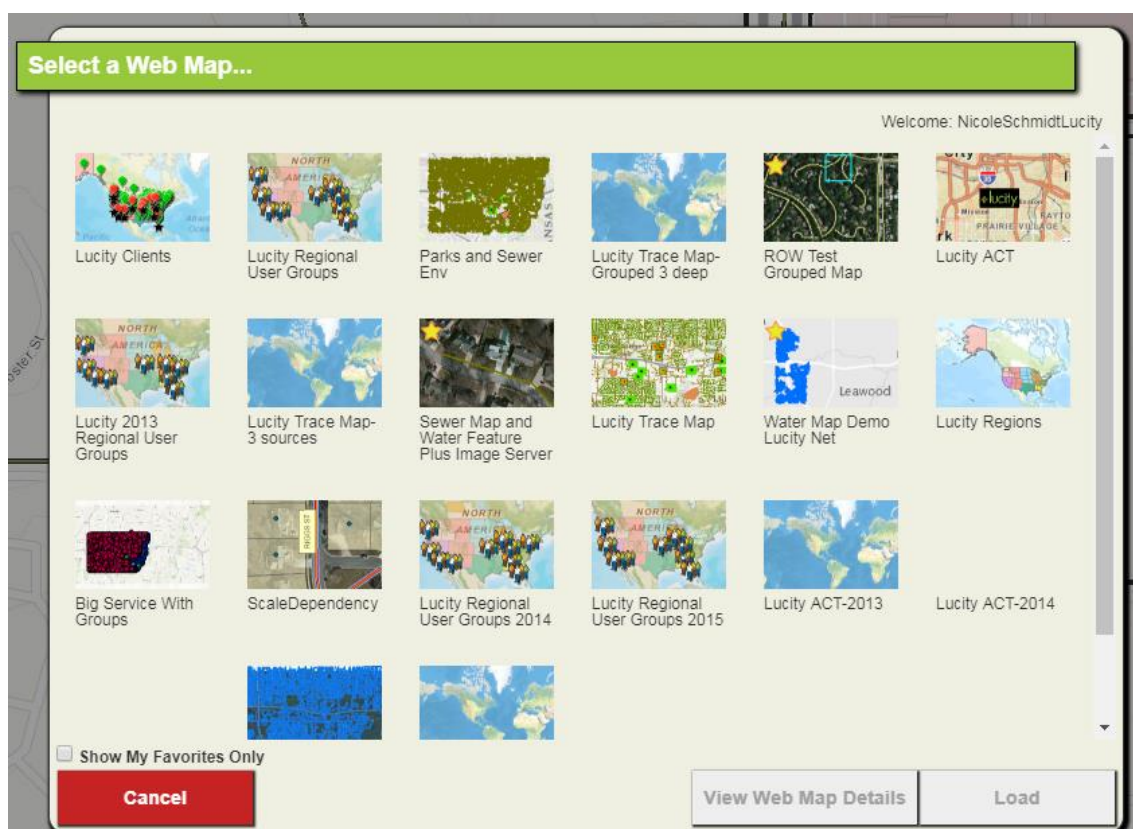
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## Portal Gallery

The Swap Webmap and Swamp Basemap tools will display a list of items from the portal configured with Lucy. The following sections describe how these galleries can be customized.

### Lucy Web Map Gallery Configuration

If you are logged into portal, the Lucy web map gallery (by default) will include all web maps in your organization. Lucy will automatically figure out what organization you belong to and only show web maps shared with your organization.

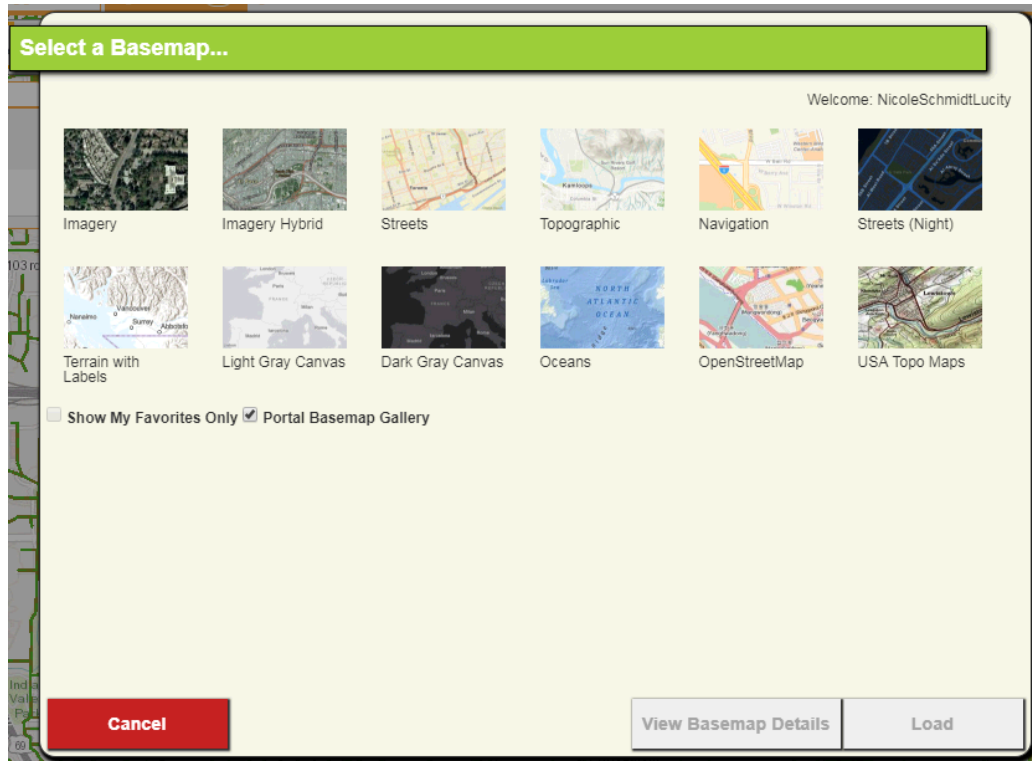


If you are not logged in, the list of web maps will be all public web maps published by any user in ArcGIS Online. If you want to limit the gallery to only show public maps in your own organization, set the Org Id in the Lucy System settings and the map gallery will automatically limit the web map gallery to only show web maps in your organization:

GIS Portal Integration		
Setting Description	Setting Value	Setting Category
Allow logging on to Lucy using Esri portal credentials	TRUE	GIS Portal Integration
Base URL to your GIS Portal	https://www.arcgis.com	GIS Portal Integration
Number of minutes after which the Esri token will expire.	600	GIS Portal Integration
Org Id for ArcGIS for Portal (optional)		GIS Portal Integration
Tag search string for Basemaps on Portal for ArcGIS or ArcGIS Online	tags: lucity_basemap	GIS Portal Integration
Tag search string for Portal for ArcGIS or ArcGIS Online	tags: lucity, lucity_eval	GIS Portal Integration
The Client ID you created for your GIS Portal		GIS Portal Integration

## Lucity Base Map Gallery Configuration

If Show Portal Basemap Gallery is selected, the portal Basemap gallery which has been configured in the maps tab of the Organization settings in portal will be used to limit the base map results. No other limits or tag search strings are applied to limit the results



If Show Portal Basemap gallery is not selected, the basemap gallery will include all items that meet this search criteria:

`tags:esri_basemap OR tags:partner_basemap OR tags:user_basemap OR tags:basemap`

Unless a custom search tag is defined for basemaps. If a custom search criterion is specified, the above default tag search criteria is not used.

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## Limiting Gallery Results by Tags

To further customize what results are returned in the web map or basemap gallery display, you can set an additional query to be applied to the gallery results in system settings.

GIS Portal Integration ▼		
Setting Description	Setting Value	Setting Category
Allow logging on to Lucity using Esri portal credentials	TRUE	GIS Portal Integration
Base URL to your GIS Portal	https://www.arcgis.com	GIS Portal Integration
Number of minutes after which the Esri token will expire.	600	GIS Portal Integration
Org Id for ArcGIS for Portal (optional)		GIS Portal Integration
Tag search string for Basemaps on Portal for ArcGIS or ArcGIS Online	tags: lucity_basemap	GIS Portal Integration
Tag search string for Portal for ArcGIS or ArcGIS Online	tags: lucity, lucity_eval	GIS Portal Integration
The Client ID you created for your GIS Portal		GIS Portal Integration

Entering

tags:lucity

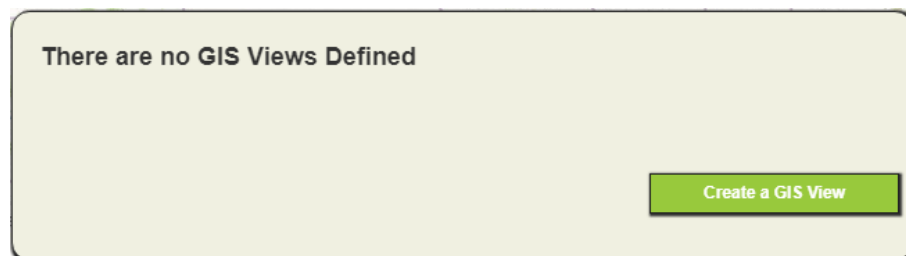
in the setting value, the gallery will only show web maps or basemaps with a tag of “lucity” applied.

This search string is not limited to tags, it can include groups in the query string as well. For more information on configuring a custom search criterion, review the [ArcGIS Online reference for searching](#).

## GIS Views

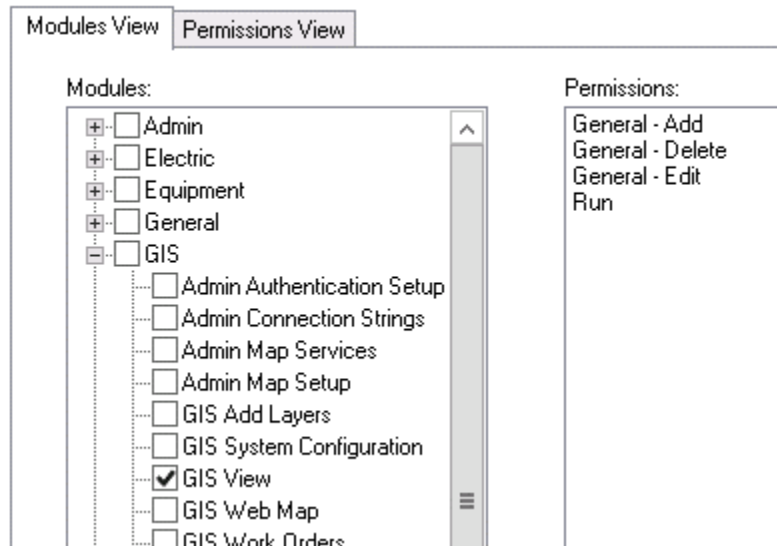
GIS Views are the name we have given the tab which contains the map and the full GIS web tool suite. A GIS View is comprised of a Map (Basemap or Web map or Basemap and Lucity Legacy Map), a collection of tools, and a collection of map components (legend, table, etc.).

If you do not have any GIS Views, when you first open the map, you will be prompted to create one (if you have permissions to create GIS Views, otherwise you will be prompted to have your administrator create one).



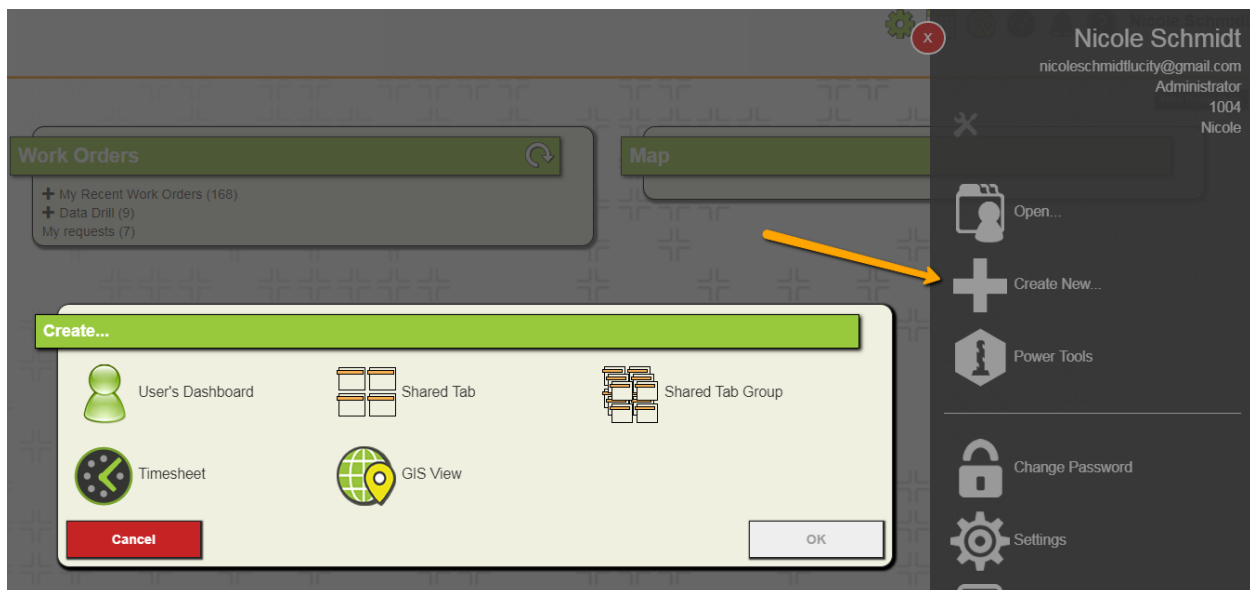
## GIS View Design

A GIS View must have a name and it may also have a description. Only users with General – Edit in the GIS View module in security can edit views.

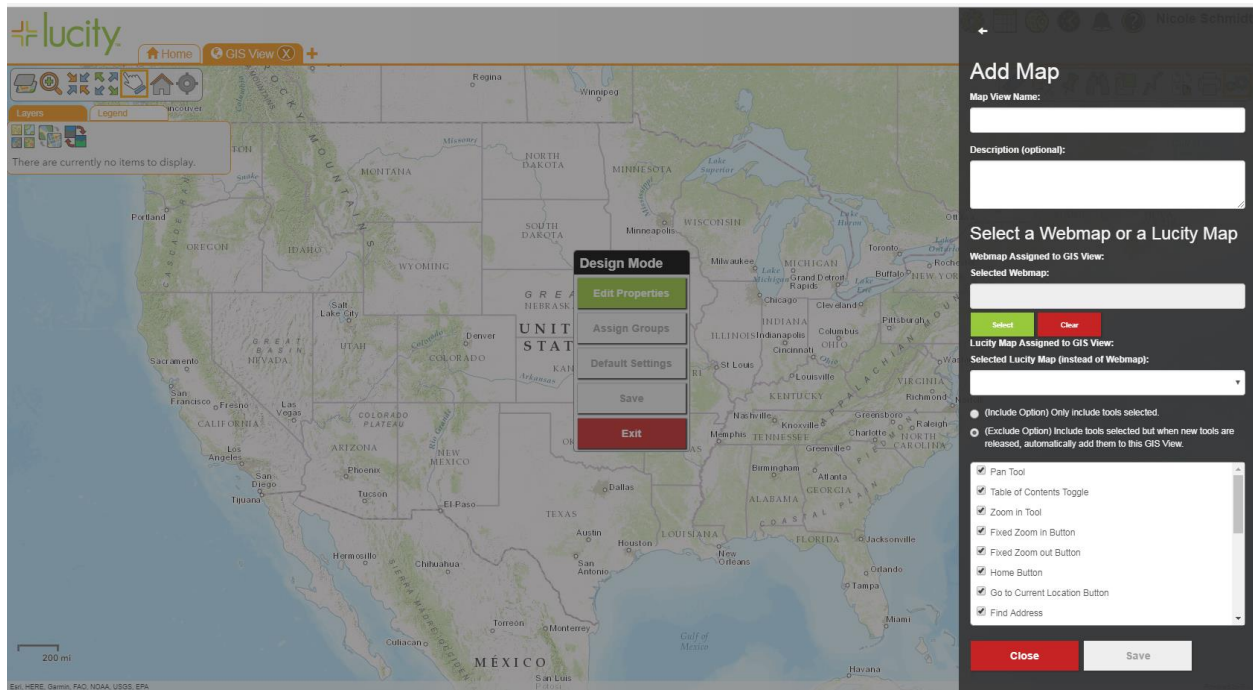


## Creating a new GIS View

To create a new view, from the user admin pane, select "Create New >>GIS View"

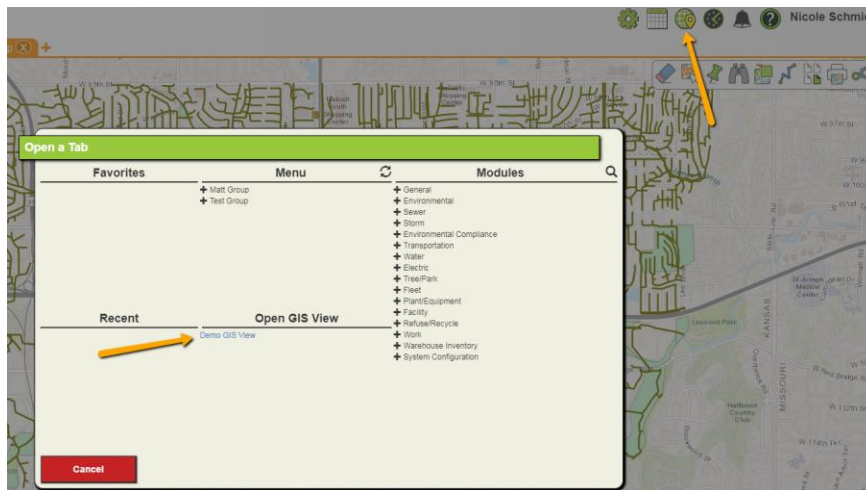


The view will open in design mode



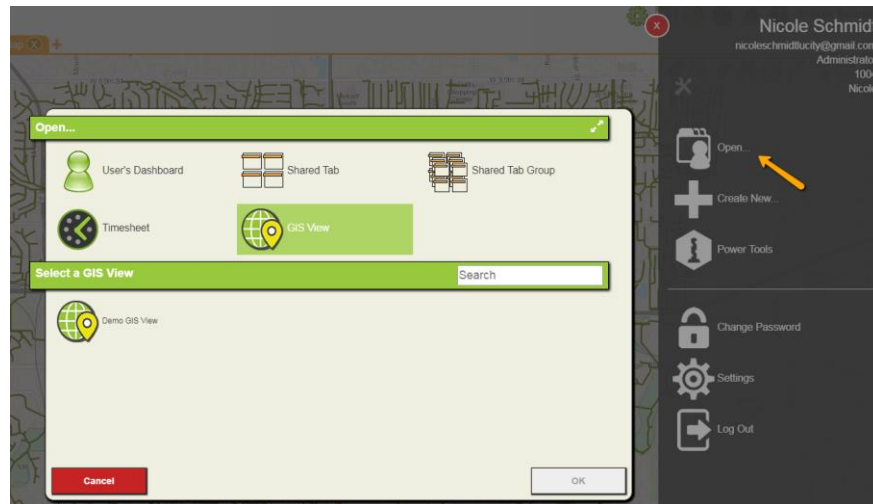
## Editing an Existing View

To edit an existing view, either open that GIS View from the menu, or from the GIS Map button on the widget bar.

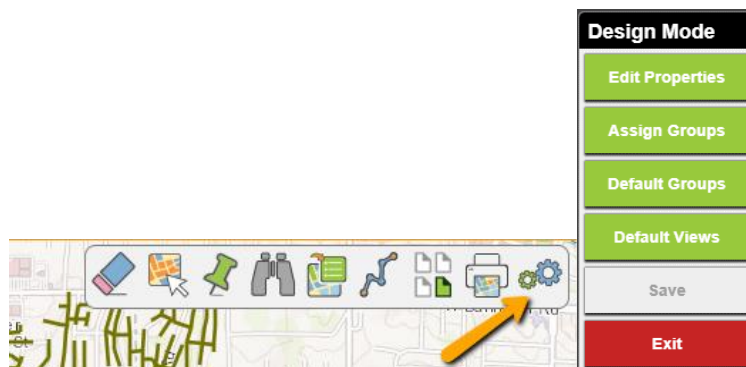




Alternately, or if it is not available through the menu or widget bar, the GIS View can be opened from the user admin pane (“Open>>GIS View”)



Once in a view, click the Design Mode icon to start editing the GIS View. And click the Edit Properties on the Design Mode menu:



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The Edit Map dialog will appear:

**Edit Map**

Map View Name:

Description (optional):

**Select a Webmap or a Lucity Map**

Webmap Assigned to GIS View: *Sewer Map*

Selected Webmap:

Lucity Map Assigned to GIS View: *Sewer Map*

Selected Lucity Map (instead of Webmap):

☒ Auto-generate popup for layers \*Changes will take effect next time GIS View is opened

☐ (Include Option) Only include tools selected.

☐ (Exclude Option) Include tools selected but when new tools are released, automatically add them to this GIS View.

☒ Pan Tool

☒ Table of Contents Toggle

☒ Zoom in Tool

☒ Fixed Zoom in Button

☒ Fixed Zoom out Button

☒ Home Button

☒ Go to Current Location Button

☒ Find Address

Notes: \_\_\_\_\_

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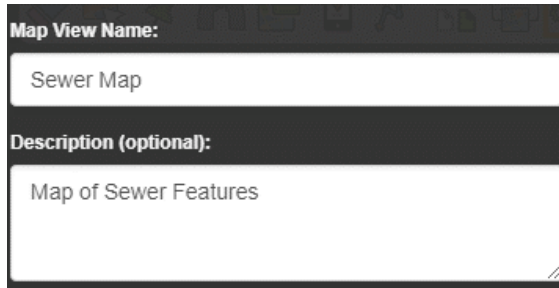
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## Map View Name and Description

A GIS View must be given a unique name. The name is what will be displayed to the user when selecting from a list of GIS Views.

The Description is optional and is used to provide more information about the GIS View.



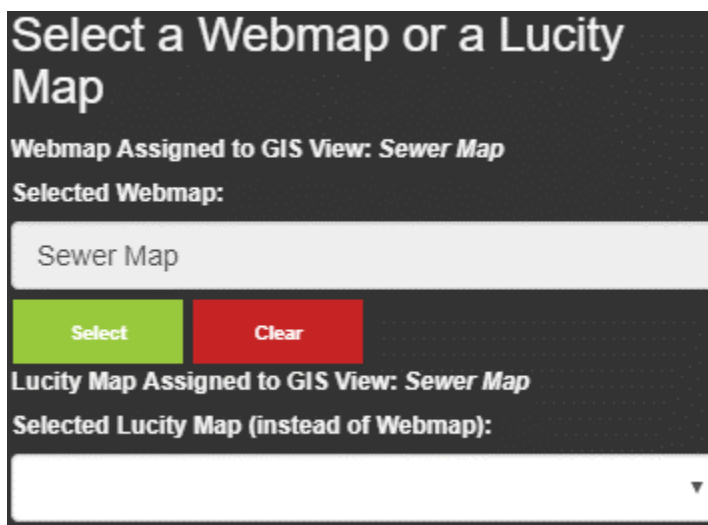
A screenshot of a form with a dark header. The first section is labeled 'Map View Name:' and contains a text input field with the value 'Sewer Map'. The second section is labeled 'Description (optional):' and contains a larger text input field with the value 'Map of Sewer Features'.

## Select a Webmap or a Lucity Legacy Map

A GIS View will have a web map assigned or a Lucity Map assigned. Users can change what is displayed on the fly using the Swap Web map and Swap Lucity map tools in the table of contents.

If you do not want users to change web maps or lucity maps, you can remove the tools, as described below. If you want to allow users to swap web maps and lucity maps but do not want them to be able to persist their changes, revoke the General – Edit permission in GIS Views.

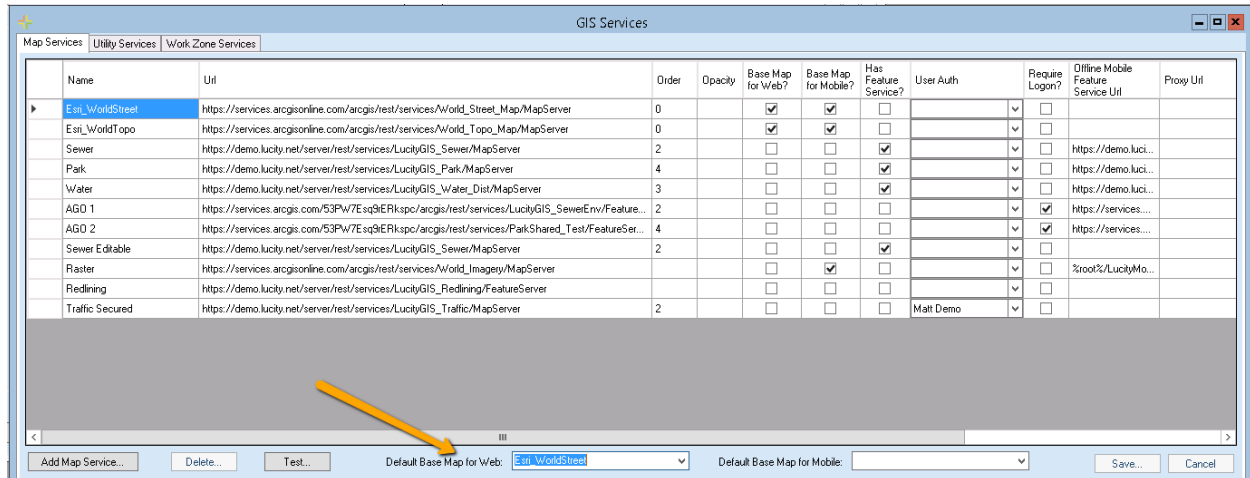
*Note: If you are not in design mode for the map, web map and lucity map swaps are not persisted. But if you open the GIS view designer and save, your changed web map or lucity map will be persisted with the GIS View.*



A screenshot of a form with a dark header. The title is 'Select a Webmap or a Lucity Map'. Below the title, it says 'Webmap Assigned to GIS View: Sewer Map'. Then, 'Selected Webmap:' is followed by a dropdown menu showing 'Sewer Map'. Below this are two buttons: a green 'Select' button and a red 'Clear' button. Then, 'Lucity Map Assigned to GIS View: Sewer Map' is shown, followed by 'Selected Lucity Map (instead of Webmap):' and an empty dropdown menu with a downward arrow.

## Default Basemap

If you are using web maps, the basemap will always be determined based on the web map being loaded. If you are using Lucity maps, the default basemap is calculated as follows. If the default basemap for web is configured here:

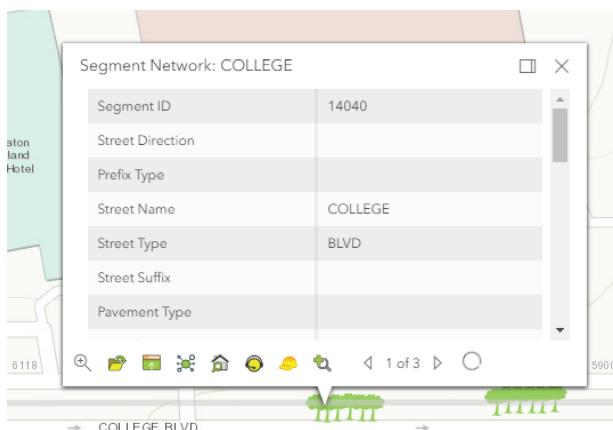


It will use this basemap. If not, and if the user is logged into portal, it will use the default basemap configured in the portal Organization settings.

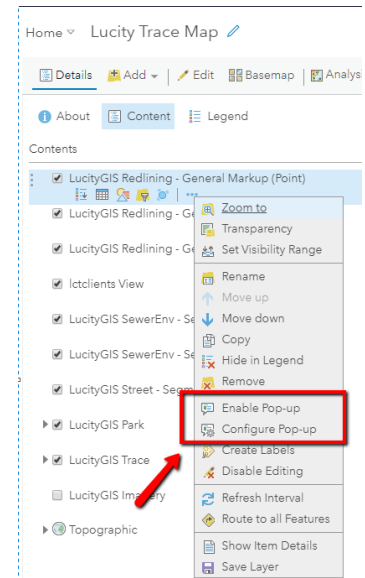
If the user is not logged into portal, the default basemap will be the Esri “grey” basemap.

## Auto-generate Popups

Popups is a term used in the webmap to refer to the dialog that appears when a feature is clicked in the map. Popups typically show the attributes for a feature in the map.



The template for a popup is defined on a per layer basis. For Esri webmaps, popup templates are configured and saved with the Esri webmap.



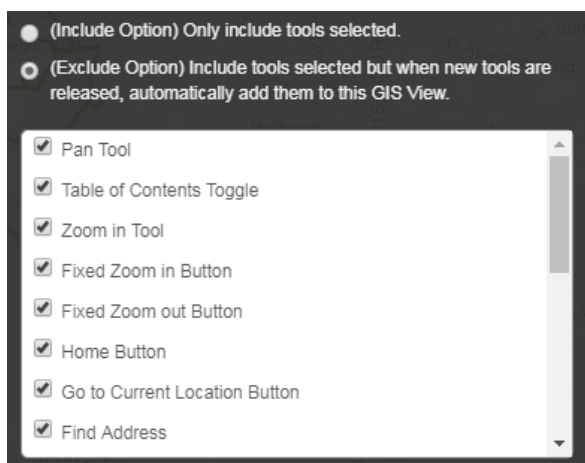
For Lucity Legacy maps or Esri webmaps that contain layers that don't have a popup template defined, you can enable a GIS View setting that will automatically create a default popup template for layers:

☒ **Auto-generate popup for layers** \*Changes will take effect next time GIS View is opened

When a GIS View loads, if a layer in the map doesn't have a popup template defined and the auto-generate popup setting is enabled, then a default popup template showing all GIS attributes is created and assigned to the layer. Otherwise, no popup template will be created for that layer, and users will not be able to "identify" features from that layer in the map.

## Configuring Tools

Each view can be configured with a distinct list of tools. There are 2 options when managing tools in a GIS View.



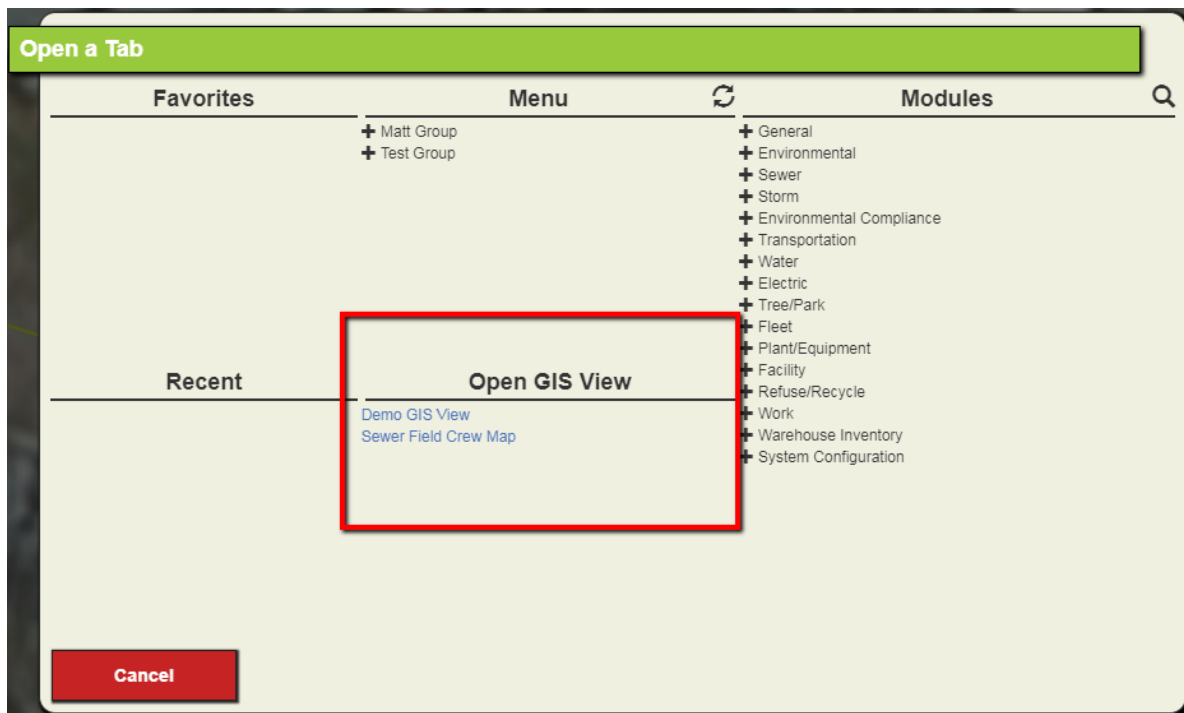
The “include” option allows you to specify a list of tools that are in the GIS View, and even after major upgrades which add new tools to the available list, only the tools you originally specified will be available for the user.

The “exclude” option allows you to specify a list of tools in the GIS View, but after major upgrades with this option selected, users will automatically have access to the new tools.

In both cases, you will select or “check” all tools you want available.

## Configuring GIS Views for the Menu

New for Lucity 2017r2, GIS is available from the menu:



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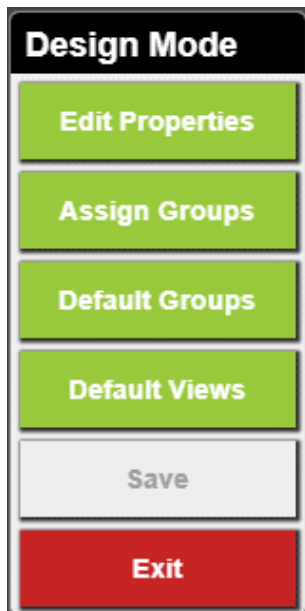
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If the System Setting for “Allow access to all GIS Views to All Users” is TRUE, then all GIS Views you create will automatically show up in this list for all users. This is the default setting.

GIS ▼	
Setting Description	Setting Value
Allow access to all GIS Views to All Users	TRUE
Lucity Spatial- Enabled	TRUE
Lucity Spatial- Max amount of days to process spatial history	90
Map Exports- Default location	
Map Exports- Format	pdf
Operational Data Spatial Reference WKID	3419
Point Location Tool Work Option (XY,ADDRESS,BOTH)	BOTH
Preload GIS caches to speed initial map load	TRUE
Separator to use for Geocoding Intersections	

If this is false, only users who have been assigned the GIS View will see it in the menu. To assign a user a GIS View, you will assign their default rules group to the view.

Open the GIS View in design mode and select Assign Groups



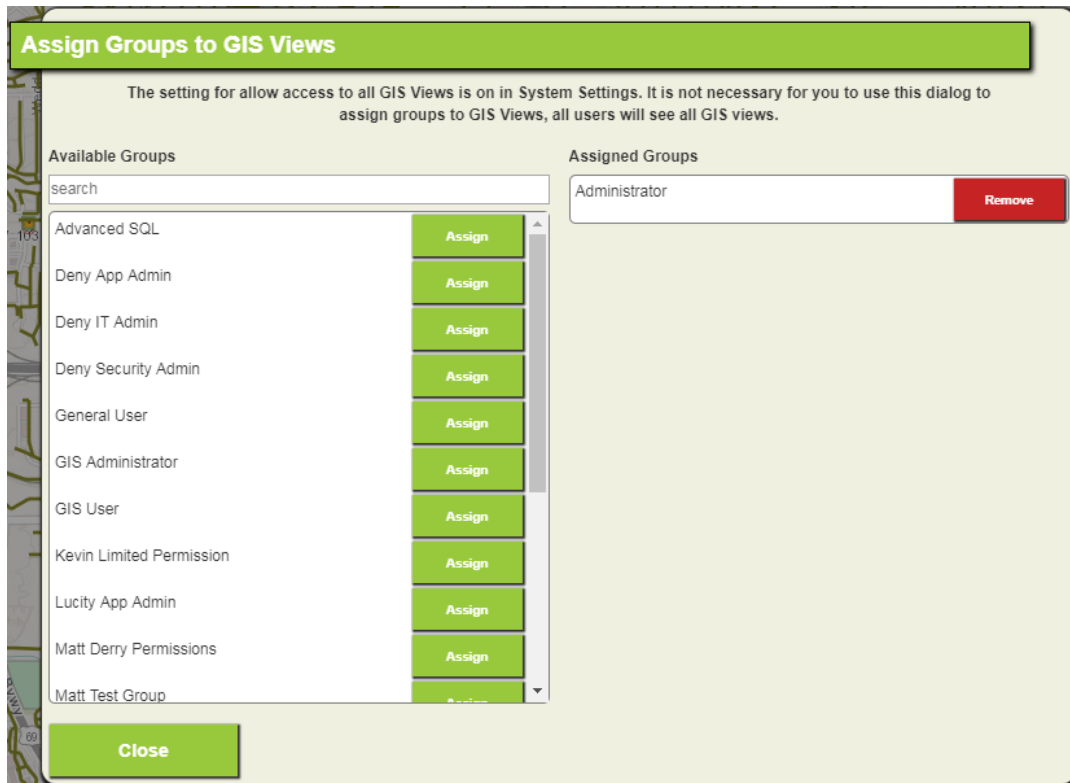
Notes: \_\_\_\_\_

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Groups can be assigned to more than one GIS View because this dialog only controls what GIS Views show up in the list of available GIS Views in the menu.



Changes in this dialog are immediately saved.

### Defining Selectable Layers in the GIS View

By default, all layers in a GIS View are selectable. That means that whenever the map selection tool is used all features from all layers are queried and included in the selection results. Users can choose to exclude certain layers from the map selection. Based upon the user's permissions they also have the option to save the layer selectability setting to the GIS View, so it is shared with all users that use that GIS View.

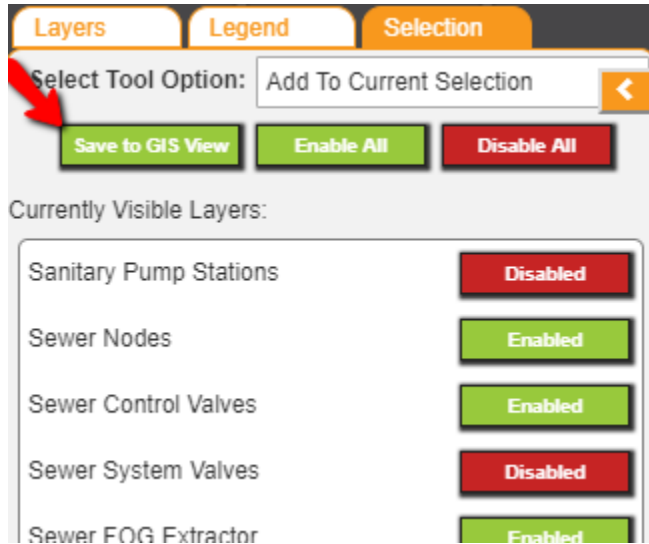
An administrator may also decide to configure which layers should be selectable and save that setting with the GIS View.

Notes: \_\_\_\_\_  
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To save layer selectability:

1. Open the GIS View
2. In the Table of Contents, switch to the Selection tab



3. Clicking the Enabled/Disabled button following the layer toggles if the layer is selectable or not. After making the desired changes, click the Save to GIS View button for the layer selectability to be saved to the GIS View.

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## Default GIS View

Users can be assigned access to multiple GIS Views. Since a user may have access to more than one GIS View, you may want to further define when a specific GIS View should be opened by default.

### Logic used to determine which GIS View is opened

When the webmap is opened using the Show in Map tool the following logic is employed to identify which GIS View should be used:

1. The system will first try and use the GIS View that is associated to the Lucity module view in which the Show in Map button was clicked.
2. If no GIS View has been associated to the module view, or the map is not being launched from a module view, the system will open the GIS View associated to the user's default rules group.
3. If there isn't a GIS View associated to the user's default rules group, the system default GIS View will be used.
4. If no GIS View has been assigned the system default, a random GIS View will be used.

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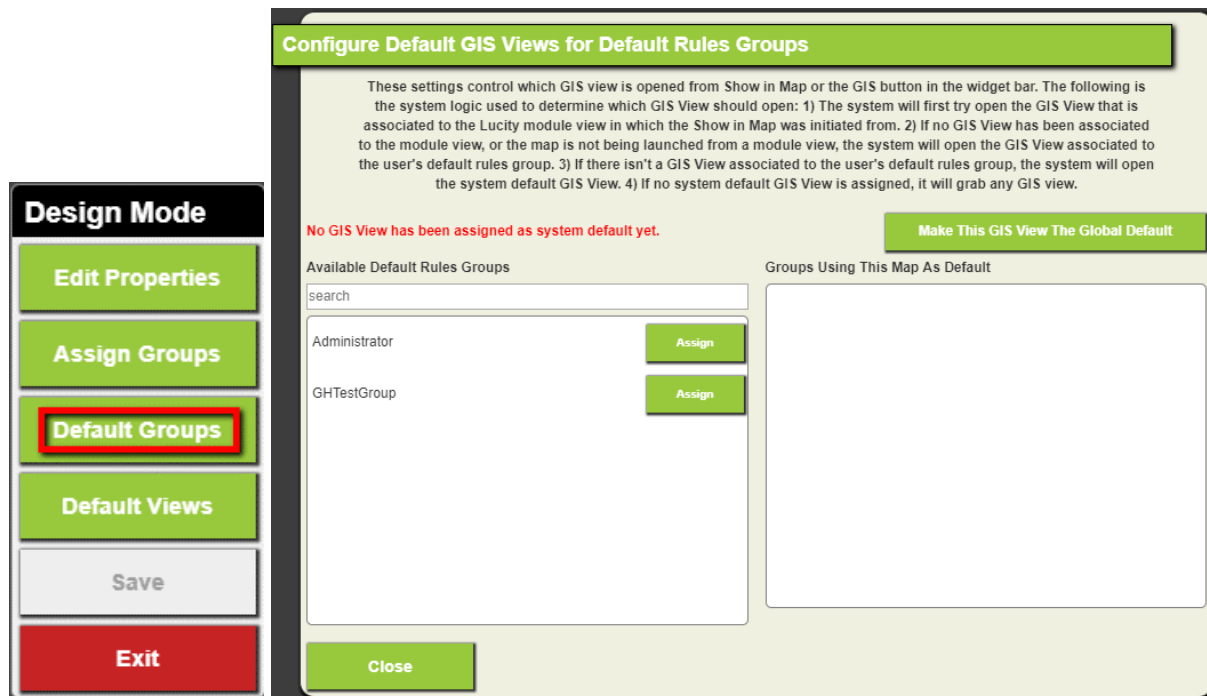
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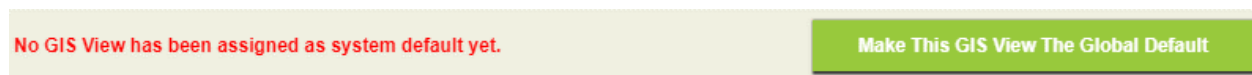
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## Configuring Default GIS Views based on Groups

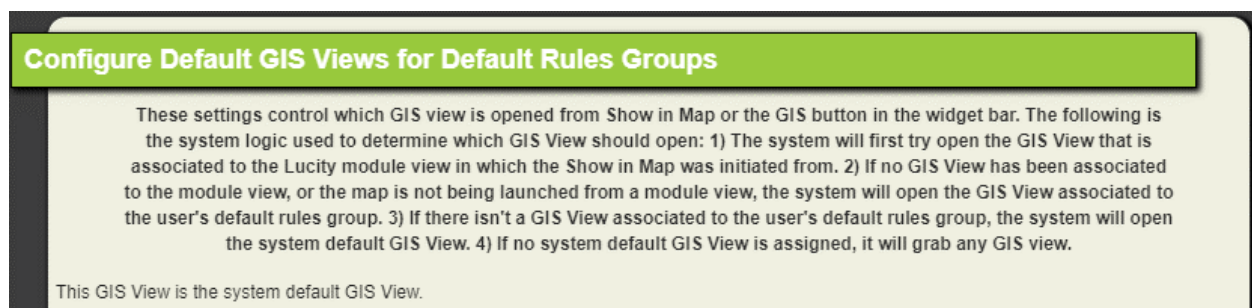
To configure what GIS Views are opened by default for a user, open the GIS View in design mode and select “Default Groups”.



This dialog will tell you what view is currently the default system wide GIS View and will allow you to set the current GIS View to be this default.



After clicking “Make this GIS View the Global Default” the display will change as follows:

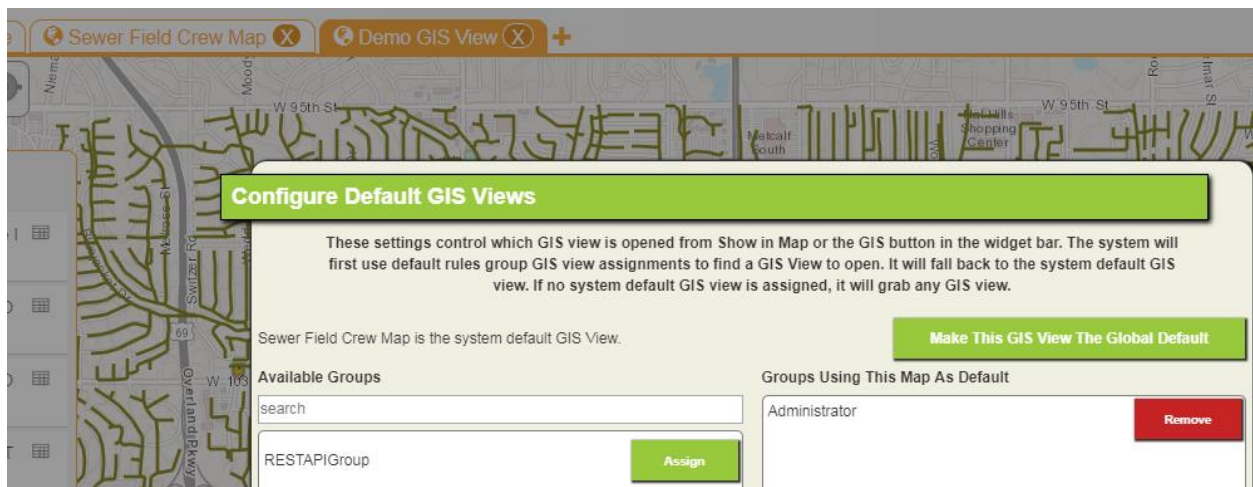


And if viewing this dialog from a GIS View that is not the default:

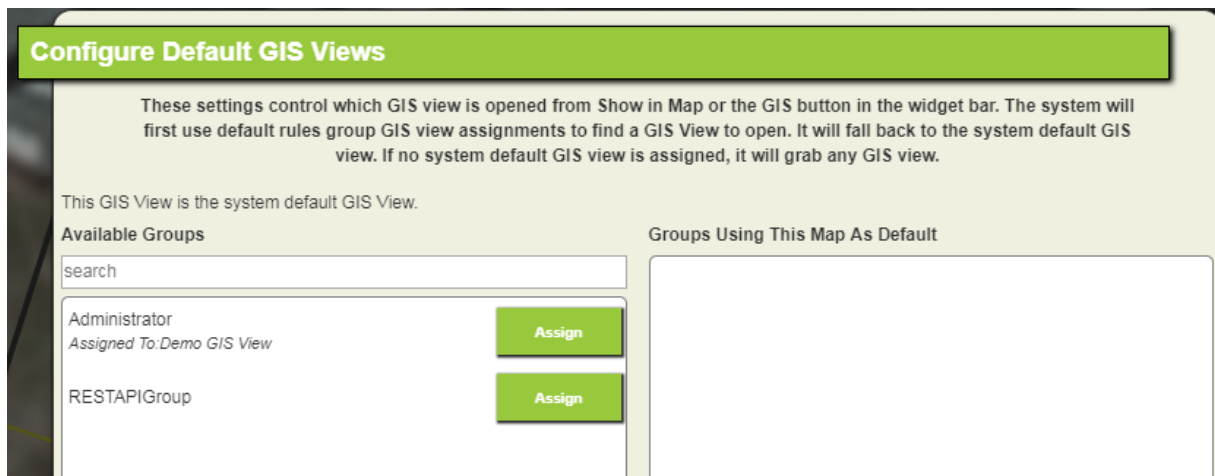


Within this dialog, you can assign a different GIS View for different users using their Default Rules Group.

For example, this Demo GIS View is not the global default map but I can make it the default map for users in the Administrator default rules group by clicking "Assign".



This dialog will also display the existing GIS View that a default rules group is assigned to:



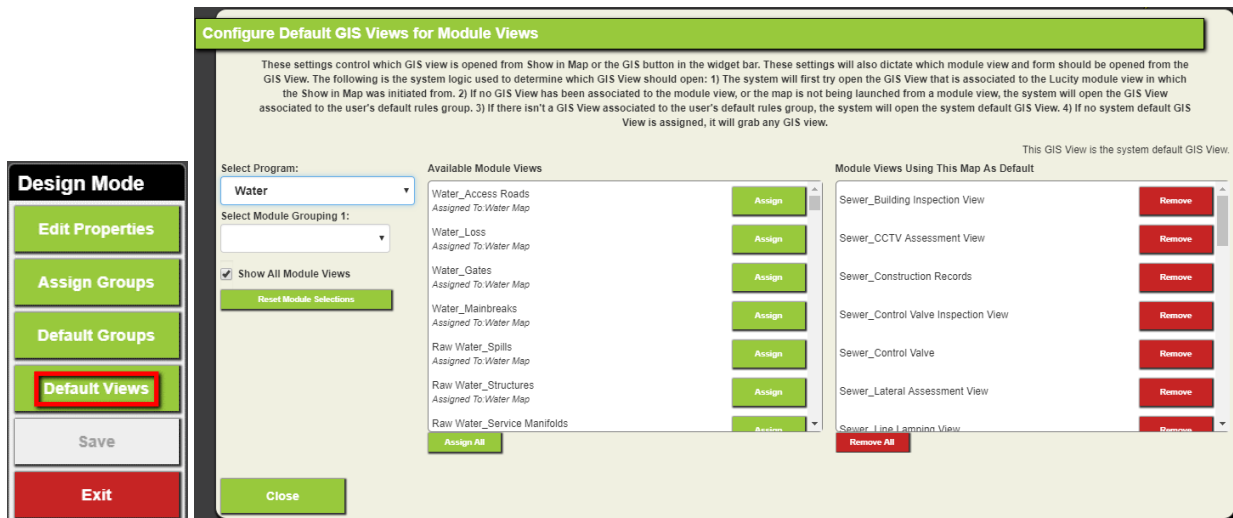
These changes are automatically saved.

## Configuring Default GIS Views based on Module View

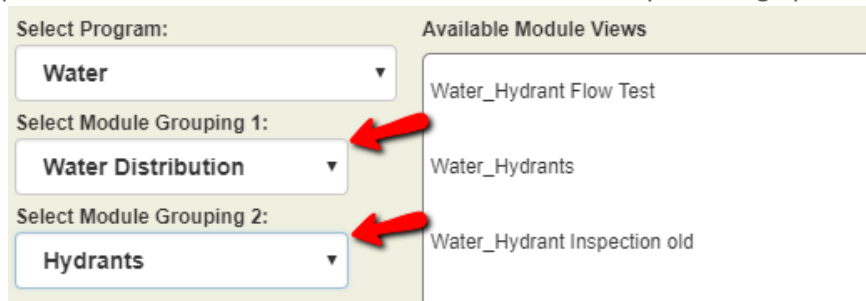
With 2018r2 you can assign a GIS View to a Lucy Module View. This assignment will be used in the following situations:

- When using the Show in Map tool in the Lucy module view. The webmap will open the GIS View that has been assigned as the default to the current Lucy module view.
- In the Lucy webmap when a tool requests to open a Lucy module view. The webmap will open the Lucy Module View that has been assigned as the default to the current GIS View.
- In the Lucy webmap when a tool requests to open a Lucy form. The webmap will open the default form associated to the Lucy Module View that has been assigned as the default to the current GIS View.

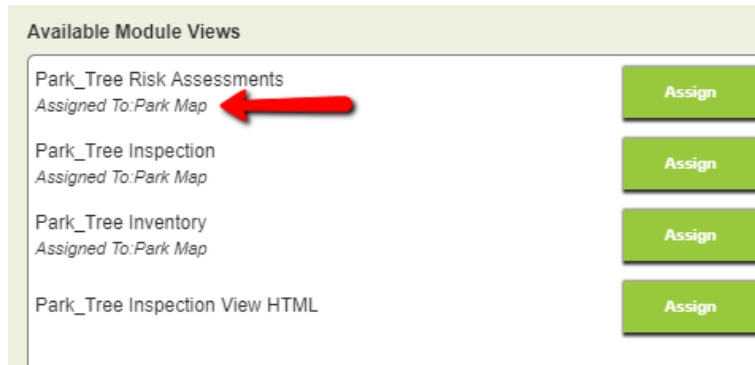
To assign Lucy Module Views to a GIS View, open the GIS View in design mode and select “Default Views”:



1. To start assigning module views to the current GIS View, select an item from the *Select Program* dropdown list. You can further filter the list of modules by selecting optional module groupings:



2. All the modules that are part of that program/grouping that are not currently assigned to this GIS View will be listed under the Available Module Views.
  - a. Note: A Module View can only have one default GIS View. The active default GIS View for a module view will be listed under the module view name.



3. To assign the current GIS View as the default for a module view, click the Assign button next to the module view.

*Note: Once you assign the module view to the current GIS View, it will automatically be removed from the Available Module Views section and will appear under the Module Views Using This Map As Default list.*

4. To remove the current GIS View as the default for a module view, click the Remove button next to the module view under the Module Views Using This Map As Default section.

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## Utility services in Lucity Admin

There are still several services which must be configured in the Lucity Admin program even if you are using the Portal Integration.

GIS Services

Map Services Utility Services Work Zone Services

Geocoding Services

Name	Url	Service is secure?	Proxy Url	LastModifiedBy	LastModifiedDate	LastModifiedTime
EsrnWorldLocator	https://geocode.arcgis.com/arcgis/rest/services/World/GeocodeServer	<input type="checkbox"/>		EricD	7/25/2017	11:08 AM

Add Geocoding Service... Delete... Default Geocoding Service:

Save... Cancel

Geometry Service

Url	Service is secure?	Proxy Url	LastModifiedBy	LastModifiedDate	LastModifiedTime
https://tasks.arcgisonline.com/ArcGIS/rest/services/Geometry/GeometryServer	<input type="checkbox"/>		CONVERSION	7/25/2017	11:08 AM

Save... Cancel

Routing Service

Url	Service is secure?	Proxy Url	LastModifiedBy	LastModifiedDate	LastModifiedTime
https://tasks.arcgisonline.com/ArcGIS/rest/services/Geometry/GeometryServer	<input type="checkbox"/>		CONVERSION	7/25/2017	11:08 AM

Save... Cancel

Default Vehicle Start Address for Work Routing:

Printing Service

Url	Service is secure?	Proxy Url	LastModifiedBy	LastModifiedDate	LastModifiedTime
https://arcgis.mylucity.net/server/rest/services/Utilities/PrintingTools/GPServer/Export%20Web%20Map%20Service	<input type="checkbox"/>		EricD	7/27/2017	4:27 PM

Save... Cancel

### Geocoding Service

A geocoding service is required for searching for an address or for reverse geocoding address points from the webmap. The webmap will use the geocoding service that has been designated the Default Geocoding Service in Lucity:

GIS Services

Map Services Utility Services Work Zone Services Redlining Aliases

Geocoding Services

Name	Url	Service is secure?
Lucity_EsrnWorld	https://geocode.arcgis.com/arcgis/rest/services/World/GeocodeServer	<input type="checkbox"/>

Add Geocoding Service... Delete... Default Geocoding Service:

Notes: \_\_\_\_\_

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## Geometry Service

The geometry service is required. It is used to convert between coordinate systems to properly render data in the GIS Map.

The screenshot shows the 'GIS Services' configuration window. The 'Utility Services' tab is selected. Under the 'Geometry Service' section, a table lists the service details. The first entry is highlighted with a red box.

	Url	Service is secure?	Proxy Url
▶	<a href="https://utility.arcgisonline.com/arcgis/rest/services/Geometry/GeometryServer">https://utility.arcgisonline.com/arcgis/rest/services/Geometry/GeometryServer</a>	<input type="checkbox"/>	

Buttons: Add Geometry Service..., Delete..., Default Geometry Service: [EsriWorldLocator](#) ▼

## Routing Service

Not used

## Printing Service

This is required if you want your users to be able to generate PDF exports of the GIS Map for printing.

The screenshot shows the 'GIS Services' configuration window. The 'Utility Services' tab is selected. Under the 'Printing Service' section, a table lists the service details. The first entry is highlighted with a red box.

	Url	Service is secure?	Proxy Url
▶	<a href="https://arcgis.mylucity.net/server/rest/services/Utilities/PrintingTools/GPServer/Export%20Web%20Map%20Image">https://arcgis.mylucity.net/server/rest/services/Utilities/PrintingTools/GPServer/Export%20Web%20Map%20Image</a>	<input type="checkbox"/>	

Buttons: Add Printing Service..., Delete..., Default Printing Service: [EsriWorldLocator](#) ▼

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Note: You need to specify the url to the Export Web Map Task of your print service:

The screenshot displays the ArcGIS REST Services Directory interface. On the left, the breadcrumb navigation shows 'Home > services > Utilities > PrintingTools (GPService)'. Below this, the 'Utilities/PrintingTools (GPService)' section is visible, with a red arrow pointing to the 'Export Web Map Task' link under the 'Tasks' section. On the right, the 'Task: Export Web Map Task' details are shown, including the 'Help URL' which is the full REST endpoint: [https://arcgis.mylucity.net/server/rest/directories/arcgisoutput/Utilities/PrintingTools\\_GPService/Utilities\\_ExportWebMapTask](https://arcgis.mylucity.net/server/rest/directories/arcgisoutput/Utilities/PrintingTools_GPService/Utilities_ExportWebMapTask). A red box highlights this URL, with a red arrow pointing to it and the text 'This is the url you want to provide Lucy'.

The printing service deserves some special attention. The Printing service operates in coordination with your other GIS Services. This means that the printing service must be able to access the services that you want to print. If you have your services on a local intranet server, you cannot use the Printing service provided in ArcGIS Online.

This may mean you choose to use ArcGIS Online for your portal (and possibly some of your other utilities services) but you may need to use the Printing Service on your own 10.4+ ArcGIS Server. If you are not on ArcGIS 10.4 or higher and are using a local private GIS server inaccessible to ArcGIS Online hosting servers, you will be unable to print maps.

## Module Spatial Data



The Module Spatial Data tool in the webmap utilizes Lucy Spatial has been present for a long time, but not all clients may have had it configured. It indexes features in the Lucy database so that we can rapidly render them on the map. The Lucy spatial service is the reason that we can render work order locations much more rapidly in the GIS Map. These modules benefit from the Lucy spatial indexing and allow data to be loaded into the GIS Web Map:

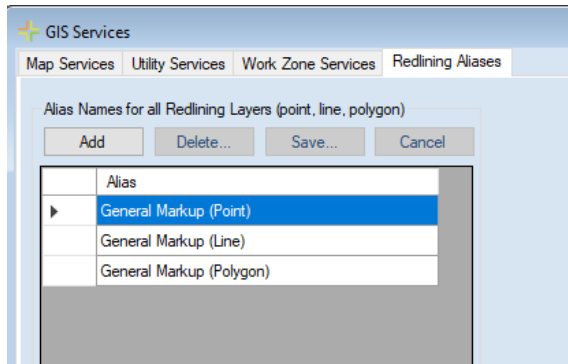
- **Work:** Requests, Work Orders, PM/Templates, Master Project Management, Sub Project Management, Work Permits
- **Sewer:** PACP Inspections, TV Inspections, Smoke Testing, Building Inspections, Sewer Overflows
- **Storm:** PACP Inspections, TV Inspections
- **Water:** Water Flushing Routes, Mainbreaks (distribution, recycled, raw)
- **Street:** Street Routes, Sidewalk Inspections

There is a session dedicated to Lucy Spatial discussing how to enable and configure the settings.

## Redlining



Redlining is a set of tools used for creating, editing, and deleting point, line, and polygon redlining features. The redlining tool is enabled when there is at least one layer in the map that has an alias that is listed in the Redlining Alias List found in GIS Services of the Lucity Administration Tool.



Note:

- When the redlining session initiates, the visibility for all redlining layers in the map will automatically be turned on.
- Only one redlining layer of each type (point, line, polygon) is allowed in the map at one time.
- The redlining tool is disabled during an active measuring session. Close the measure toolbar to enable the redlining tool.

## Point Location Tool



The point location tool records the x/y, lat/long, and the reverse geocoded address for a point on the map. The x/y values and/or reverse geocoded address can later be attached to a request, work order, or pm/work template.

Starting with 2018r2, there is a system setting that indicates what information from the Point Location Tool result, should be included when creating a request, work order, and/or pm/template.

Security - Passwords		Settings with custom interface		Web Performance		Web Site		Work	
GIS 3rd Party Integrations	GIS Edit Integration	GIS Portal Integration	Identity Server	Mobile	Reporting	REST API	SaaS	Security	
Appearance	Citizen	Crystal Enterprise	Designer Automation	Documents	Email	General		GIS	
Description				Value					
Allow access to all GIS Views to All Users				TRUE					
Lucity Spatial- Enabled				TRUE					
Lucity Spatial- Max amount of days to process spatial history				90					
Map Exports- Default location									
Map Exports- Format				pdf					
Operational Data Spatial Reference WKID				3419					
Point Location Tool Work Option (XY,ADDRESS,BOTH)				BOTH					
Preload GIS caches to speed initial map load				TRUE					
Separator to use for Geocoding Intersections									

Note:

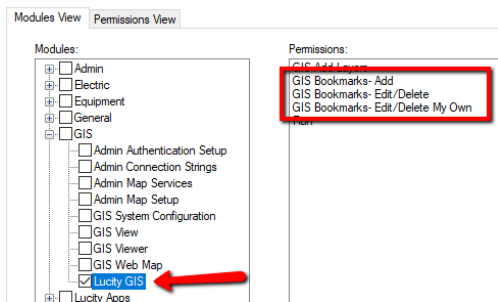
- **XY**- The x/y of the point location tool will be used when creating the request/wo/pm.
- **ADDRESS**- The reverse geocoded address of the point location tool result will be used when creating the request/wo/pm. In the event the reverse geocode didn't calculate a valid address then the x/y will be used.
- **BOTH**- Both the x/y and the reverse geocoded address of the point location tool result will be used when creating the req/wo/pm. In the event the reverse geocode didn't calculate a valid address then only the x/y will be used.

## Bookmarks



Bookmarks are essentially saved areas of interest as a map extent (xmin, ymin, xmax, ymax, wkid). Bookmarks are saved to the Lucy database and can be shared among users within the Lucy webmap and ArcGIS Pro add-in. Future releases may expand the sharing capabilities with Lucy mobile.

There are a new set of permissions that control if a user can create, edit, and delete bookmarks. These permissions are found under the LucyGIS grouping.



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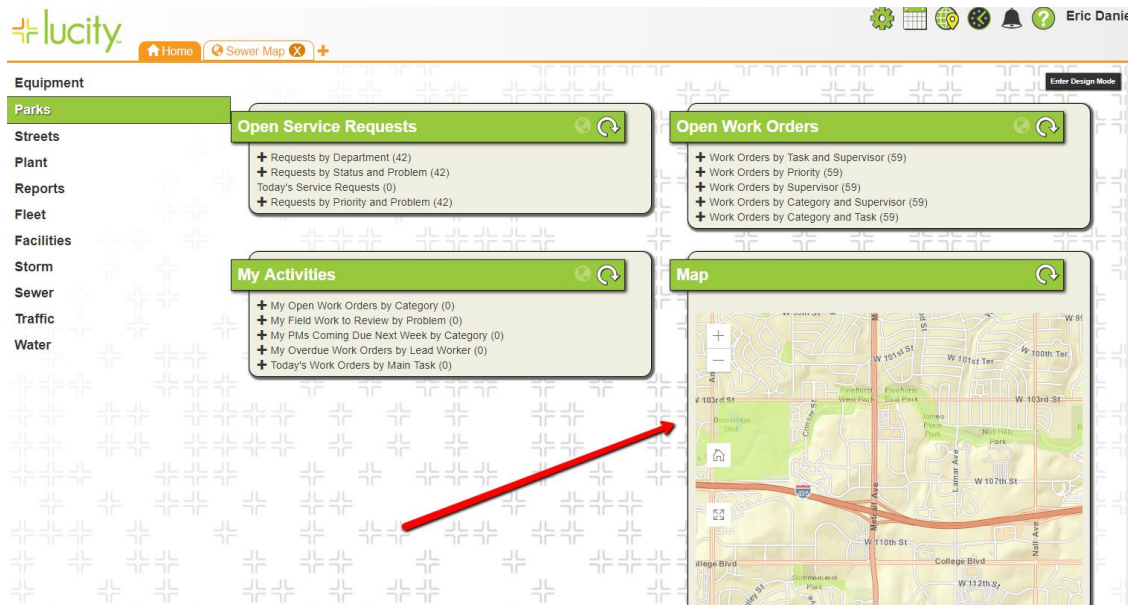
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## Lucidity Dashboard Map

Dashboard maps use the same web map and Lucidity maps available in the full GIS View. Configuring dashboard maps is similar to a GIS View.



The 'Edit Map' dialog box is shown, featuring a 'Delete' button at the top right. Below the title, there is a section 'Choose a Web Map or a BaseMap' with a 'Show More' button. The 'Use a Webmap:' section has a text input field and 'Select' and 'Clear' buttons. The 'Use a Basemap:' section has a dropdown menu with 'Streets' selected and 'Select' and 'Clear' buttons. The 'Lucidity Map Name (instead of Webmap):' section has a dropdown menu with 'LucityGIS\_Park' selected. The 'Height:' section has a text input field. The 'Initial search context' section has a dropdown menu with 'None' selected. At the bottom are 'Cancel' and 'Save' buttons.