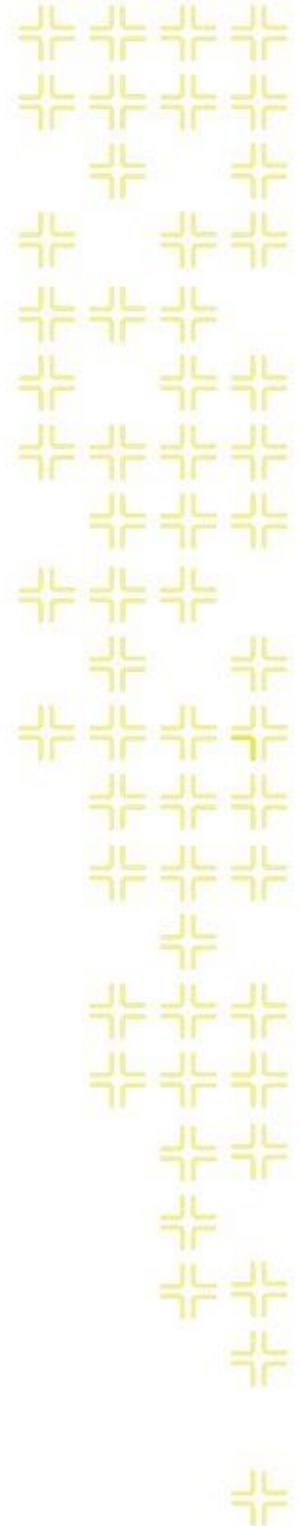




TRAINING GUIDE

Lucity GIS

Web Administration



Lucidity GIS Web Administration

Contents

Portal Config and SSO.....	2
Registering with Portal	2
Behind the Scenes	4
Resetting Portal Integration	5
Single Sign On	6
Secured Services.....	8
Logged into Portal and accessing a secured service federated with Portal	8
Logged into Portal and accessing a Web Map secured service not federated with Portal	8
Not logged into Portal and accessing a secured ArcGIS Online service or ArcGIS Enterprise 10.5 service	9
Not logged into Portal and accessing a secured ArcGIS Server 10.4 (or below) service	10
Lucity Maps vs Web Maps	10
Lucity Web Map Gallery Configuration	11
Lucity Base Map Gallery Configuration	12
Limiting Gallery Results by Tags.....	13
Lucity Dashboard Map (Web Maps, Basemaps, Lucity Maps)	13
GIS Views.....	13
GIS View Design.....	14
Creating a new GIS View.....	14
Editing an Existing View	15
Configuring Layers and Base Maps	16
Default Basemap	17
Configuring Tools	17
Configuring GIS Views for the Menu	18
Configuring Default GIS View Settings	20
Utility services in Lucity Admin.....	22
Geocoding Service	22
Geometry Service	22
Routing Service.....	22
Printing Service	22
Printing Service	23
Deprecated System Settings.....	23
Lucity Spatial.....	23
Limitations of Lucity Web GIS in 17r2	24

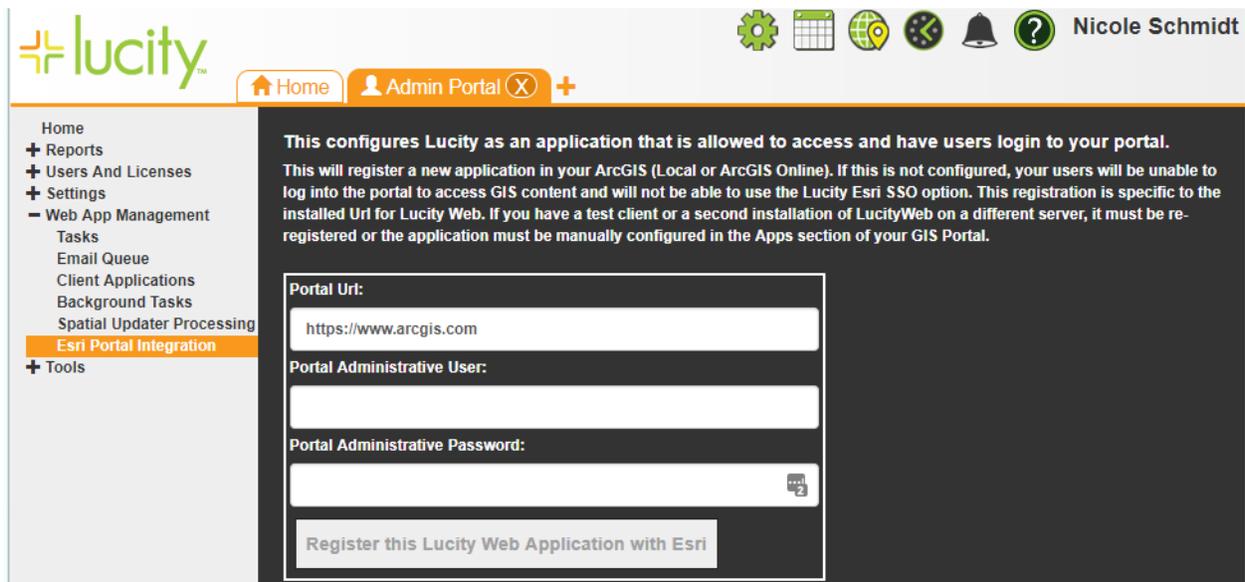
Portal Config and SSO

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.



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.

Notes: _____

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

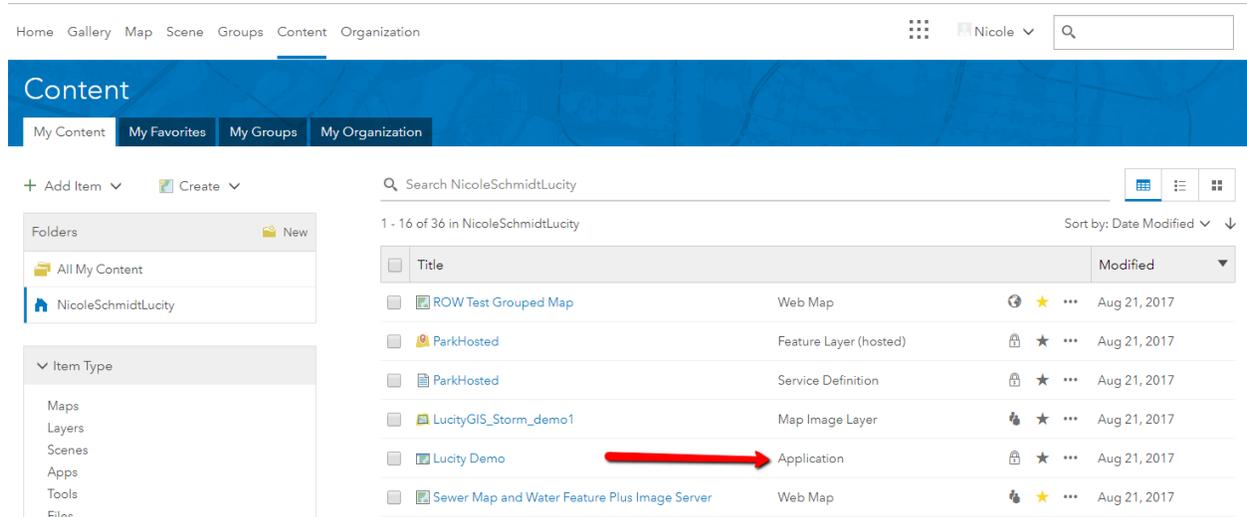
The screenshot shows the Lucity Admin Portal interface. The top navigation bar includes the Lucity logo, a Home button, an Admin Portal button with a close icon, and a user profile for Nicole Schmidt. The left sidebar lists various administrative tasks, with 'Esri Portal Integration' highlighted. The main content area displays a configuration panel for Esri Portal integration. It includes a title, a descriptive paragraph, a 'Portal Uri' field with the value 'https://www.arcgis.com', a 'Lucity Web App ID' field with the value 'IoNNJosi30TJZpWq', and a checked checkbox for 'Enable Esri SSO Integration'. A green 'Clear' button is located at the bottom of the configuration panel.

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

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

Behind the Scenes

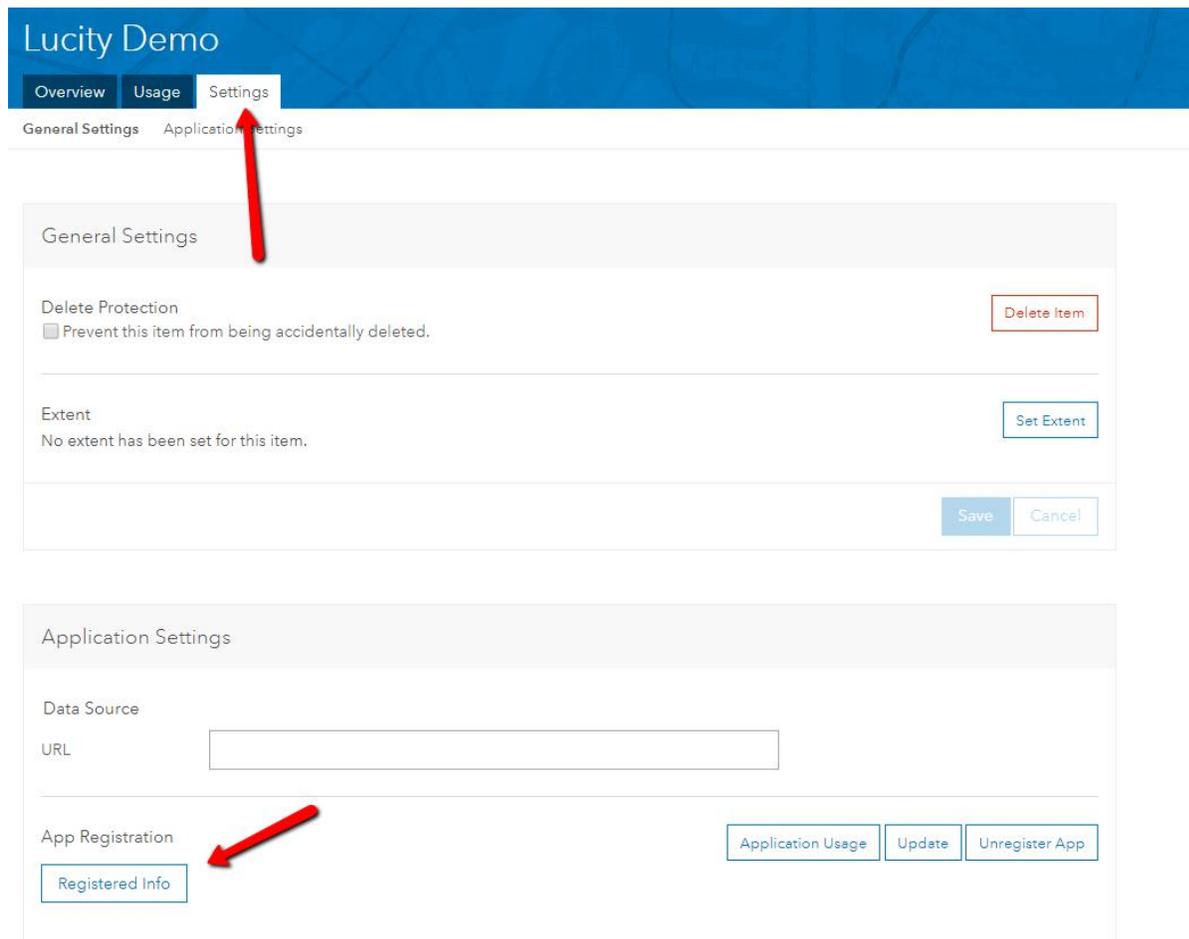
When the automated portal registration is run through the Lucity admin portal, an application is registered with portal which will show up as an App under gallery or content.



The screenshot shows the Lucity Content portal interface. At the top, there are navigation tabs: Home, Gallery, Map, Scene, Groups, Content, and Organization. The 'Content' tab is active. Below the navigation, there are tabs for 'My Content', 'My Favorites', 'My Groups', and 'My Organization'. The main area displays a list of items with columns for Title, Type, and Modified. 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, and a red arrow points to it. Below the 'Settings' tab, there are two sections: 'General Settings' and 'Application Settings'. In the 'General Settings' section, there is a 'Delete Protection' checkbox and a 'Delete Item' button. In the 'Application Settings' section, there is a 'Data Source' section with a 'URL' input field. Below that, there is an 'App Registration' section with a 'Registered Info' button and three other buttons: 'Application Usage', 'Update', and 'Unregister App'. A red arrow points to the 'Registered Info' button.

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

App Secret: [Show Secret](#)

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

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

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.

The screenshot shows the Lucy Admin Portal interface. The top navigation bar includes the Lucy logo, a user profile for Nicole Schmidt, and several utility icons. The main content area is titled "Esri Portal Integration" and contains the following text:

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 Uri 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 Url:

Lucy Web App ID:

Enable Esri SSO Integration

[Clear](#)

Single Sign On

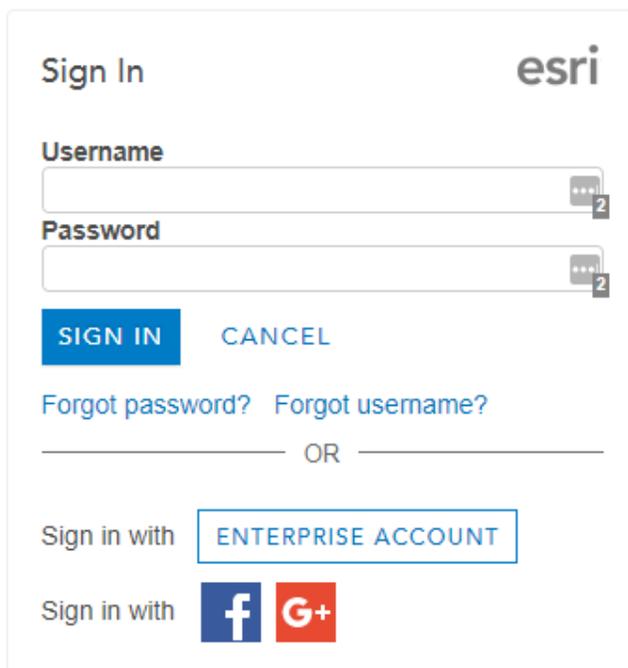
Once Enable Esri SSO Integration is enabled, users can log into Lucyty using the “Sign in with ArcGIS” option on the login page.



The image shows the login page for Lucyty Enterprise Asset Management Software. The page has a green background. At the top left is the Lucyty logo, which consists of a stylized cross-like symbol in orange and green, followed by the word "lucity" in a light green font and "enterprise asset management software" in a dark green font. Below the logo, there are two buttons: "Sign in with Windows Authentication" and "Sign in with ArcGIS". The "Sign in with ArcGIS" button has a small "POWERED BY" logo above the Esri logo. To the right of these buttons are two input fields: "username" and "password". Below the "password" field is an orange "Sign in" button.

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



The image shows an Esri "Sign In" dialog box. It has a white background and a thin border. At the top left is the text "Sign In" and at the top right is the Esri logo. Below the logo are two input fields: "Username" and "Password". Each field has a small "2" icon in the bottom right corner. Below the input fields are two buttons: "SIGN IN" (in a blue box) and "CANCEL". Below the buttons are two links: "Forgot password?" and "Forgot username?". Below the links is a horizontal line with the word "OR" in the center. Below the line are two buttons: "Sign in with" followed by "ENTERPRISE ACCOUNT" (in a blue box). Below the "ENTERPRISE ACCOUNT" button are two buttons: "Sign in with" followed by the Facebook "f" logo and the Google+ "G+" logo.

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.

User Information

User:

First Name:

Last Name:

Email:

Default Rules Group: ▼

Allow Logging on to Lucity with ESRI Logon

ESRI Logon ID:

Enabled Locked

Associated Windows Accounts:

Allow Application Authentication

Password never expires

User must change password at next logon

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

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.

Notes: _____

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:

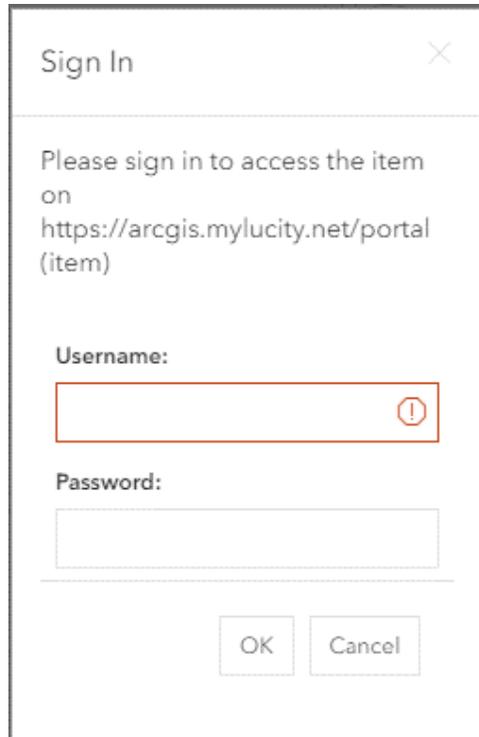
 🔗

A secure service was detected.

Username:

Notes: _____

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



Sign In

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

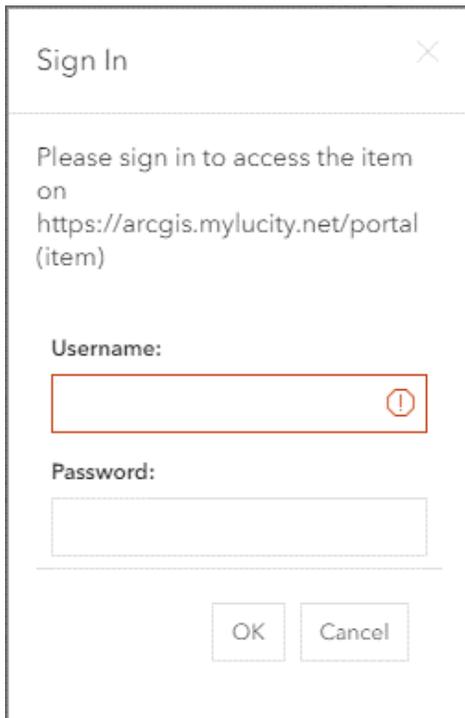
Username:

Password:

OK Cancel

Not logged into Portal and accessing a secured ArcGIS Online service or ArcGIS Enterprise 10.5 service

If a user is not logged into portal and accesses a secured service on ArcGIS Online or ArcGIS Enterprise 10.5, the user will be prompted for credentials in the map.



Sign In

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

Username:

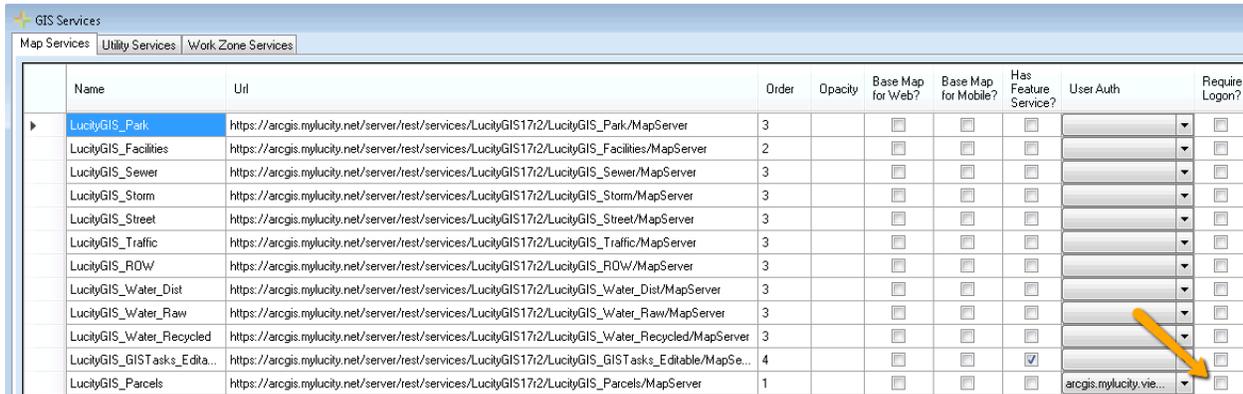
Password:

OK Cancel

Not logged into Portal and accessing a secured ArcGIS Server 10.4 (or below) service

If a user is not logged into portal and accesses a secured service on ArcGIS Server 10.4 or below, the system will auto-login for the user if the “Require Logon” in the Map Setup is not checked.

If Require Logon is checked, the user will be prompted for credentials.



Name	Url	Order	Opacity	Base Map for Web?	Base Map for Mobile?	Has Feature Service?	User Auth	Require Logon?
LucyGIS_Park	https://arcgis.mylucity.net/server/rest/services/LucyGIS17r2/LucyGIS_Park/MapServer	3		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
LucyGIS_Facilities	https://arcgis.mylucity.net/server/rest/services/LucyGIS17r2/LucyGIS_Facilities/MapServer	2		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
LucyGIS_Sewer	https://arcgis.mylucity.net/server/rest/services/LucyGIS17r2/LucyGIS_Sewer/MapServer	3		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
LucyGIS_Storm	https://arcgis.mylucity.net/server/rest/services/LucyGIS17r2/LucyGIS_Storm/MapServer	3		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
LucyGIS_Street	https://arcgis.mylucity.net/server/rest/services/LucyGIS17r2/LucyGIS_Street/MapServer	3		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
LucyGIS_Traffic	https://arcgis.mylucity.net/server/rest/services/LucyGIS17r2/LucyGIS_Traffic/MapServer	3		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
LucyGIS_RDW	https://arcgis.mylucity.net/server/rest/services/LucyGIS17r2/LucyGIS_RDW/MapServer	3		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
LucyGIS_Water_Dist	https://arcgis.mylucity.net/server/rest/services/LucyGIS17r2/LucyGIS_Water_Dist/MapServer	3		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
LucyGIS_Water_Raw	https://arcgis.mylucity.net/server/rest/services/LucyGIS17r2/LucyGIS_Water_Raw/MapServer	3		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
LucyGIS_Water_Recycled	https://arcgis.mylucity.net/server/rest/services/LucyGIS17r2/LucyGIS_Water_Recycled/MapServer	3		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
LucyGIS_GISTasks_Edita...	https://arcgis.mylucity.net/server/rest/services/LucyGIS17r2/LucyGIS_GISTasks_Editable/MapSe...	4		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
LucyGIS_Parcels	https://arcgis.mylucity.net/server/rest/services/LucyGIS17r2/LucyGIS_Parcels/MapServer	1		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	arcgis.mylucity.vie...	<input type="checkbox"/>

Lucity Maps vs Web Maps

The Lucity Web interface for 2017r2 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.

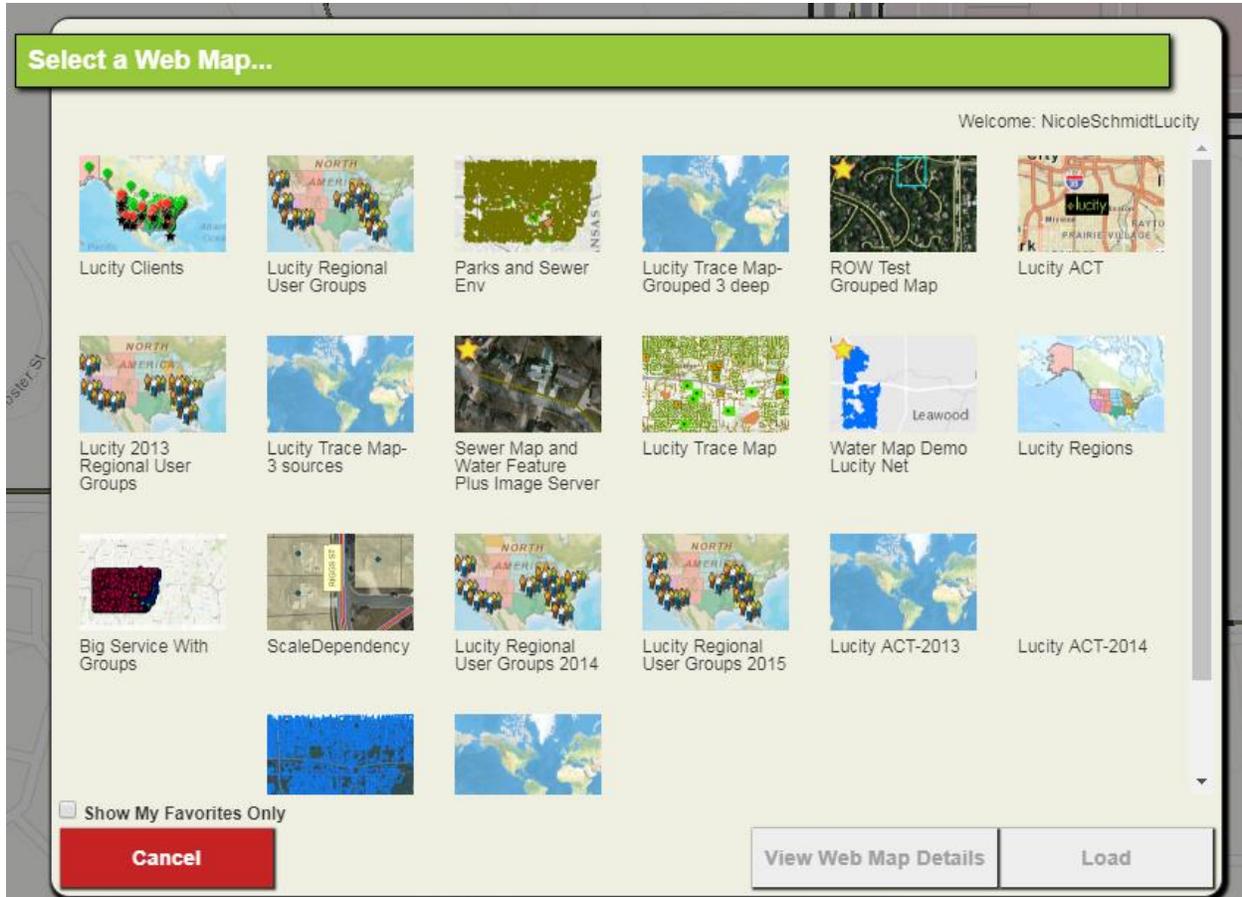
If you have not upgraded to 10.5 yet or are not ready to configure web maps in ArcGIS Online, you can use the old-style “Lucity Maps” during the transition.

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

Notes: _____

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.

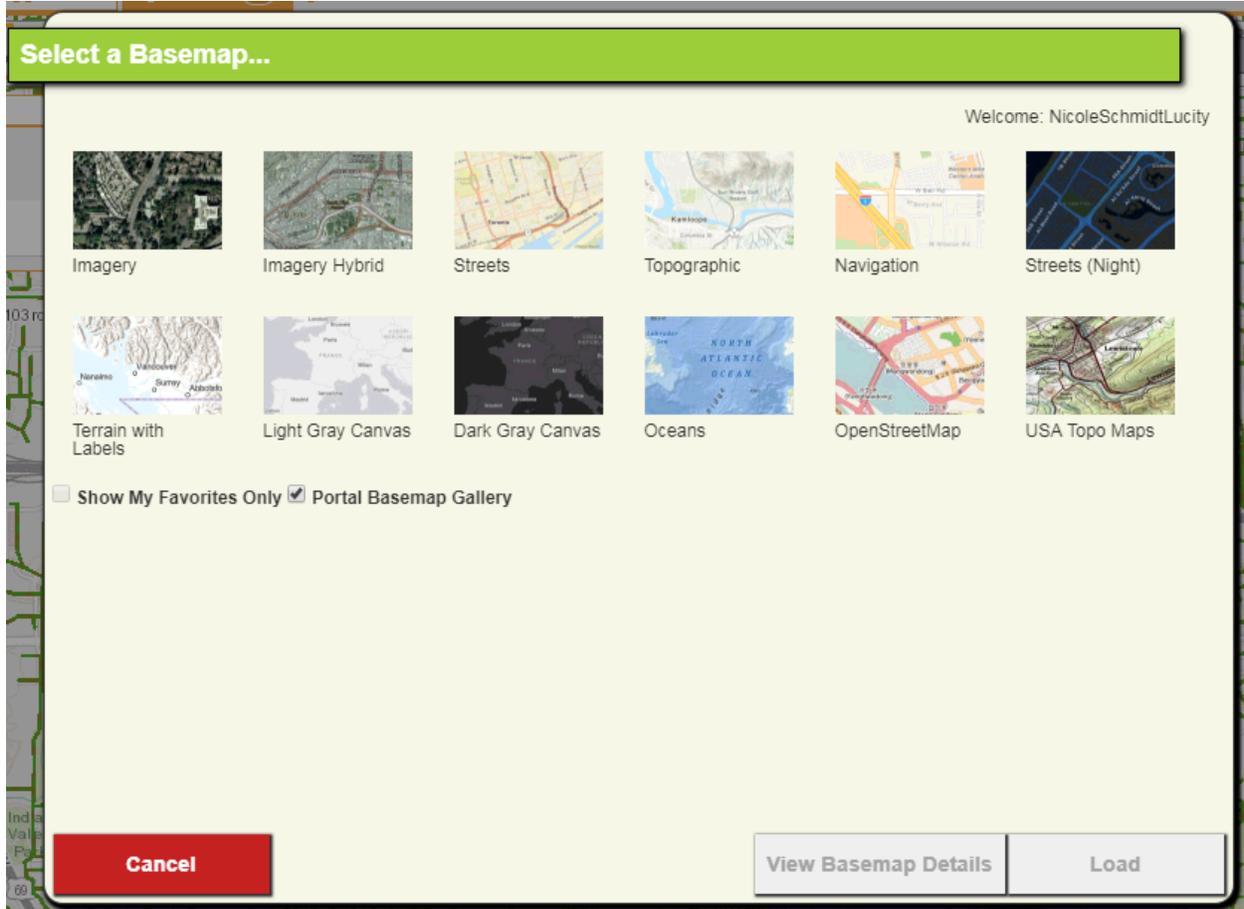


If you are not logged in, the list of web maps will be all public web maps published by any user in ArcGIS Online. If you want to limit the gallery to only show public maps in your own organization, set the Org Id in the Lucy System settings and the map gallery will automatically limit the web map gallery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

GIS Web		
Setting Description	Setting Value	Se
Allow access to all GIS Views to All Users	TRUE	GI!
Automatically save redlining edits	FALSE	GI!
Comma separated criteria to use for a where clause if parcel layer is to be queried. Keywords are {BUILDING},{STREETNAME},{STREETNAME2},{ZIP}	ADG_ADR_BDG={BUILDING},ADDRESS='%{STREETNAME}%'	GI!
Field name for Single Line Input Address Search	SingleLine	GI!
Force the GIS Web Map to always open to the default extent	TRUE	GI!
Operational Data Spatial Reference WKID	3419	GI!
Org Id for ArcGIS for Portal (optional)		GI!

Lucy 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.

Notes: _____

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 Web	
Setting Description	Setting Value
Tag search string for Basemaps on Portal for ArcGIS or ArcGIS Online	
Tag search string for Portal for ArcGIS or ArcGIS Online	

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](#).

Lucity Dashboard Map (Web Maps, Basemaps, Lucity Maps)

Dashboard maps use the same web map and Lucity maps available in the full GIS View, however the basemap selection is still limited to a small subset of Esri basemaps. Converting the basemap selection to use the basemap gallery is planned for Lucity 2018.

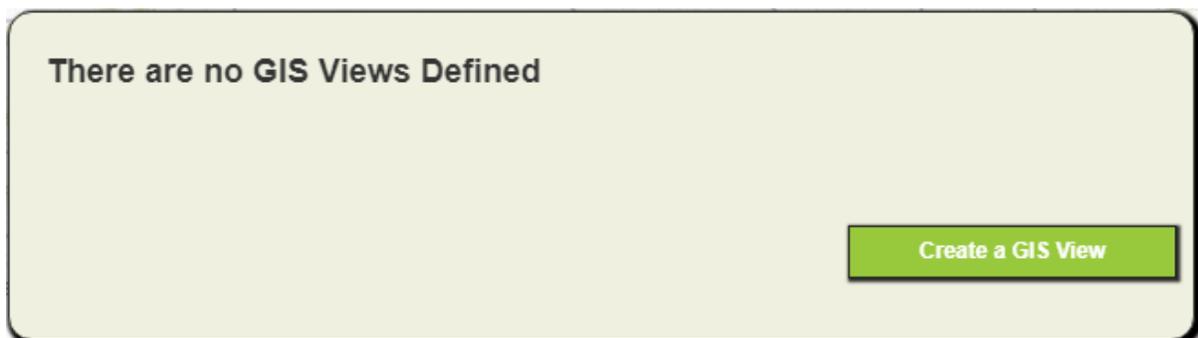
GIS Views

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 Map), a collection of tools, and a collection of map components (legend, table, etc.).

If you are upgrading from a previous version and are upgrading to Lucity 2017r2 sp0, no GIS Views will exist and they will need to be created. If you are upgrading to Lucity 2017r2 sp1 or later, we will auto-create GIS Views for all of the Lucity maps which were designated as web maps and will set up default group assignments for these maps.

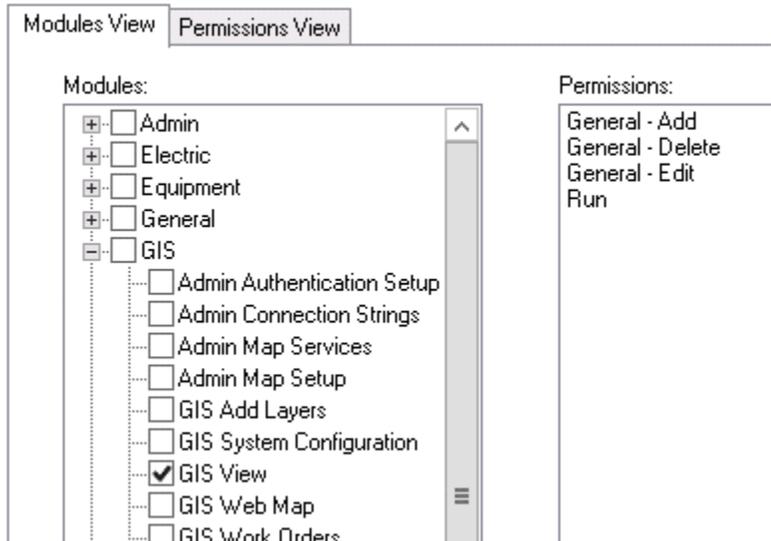
There are 2 queries which allow us to create these views and we can provide these on demand if you are upgrading to sp0 and want to run these following your upgrade.

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.

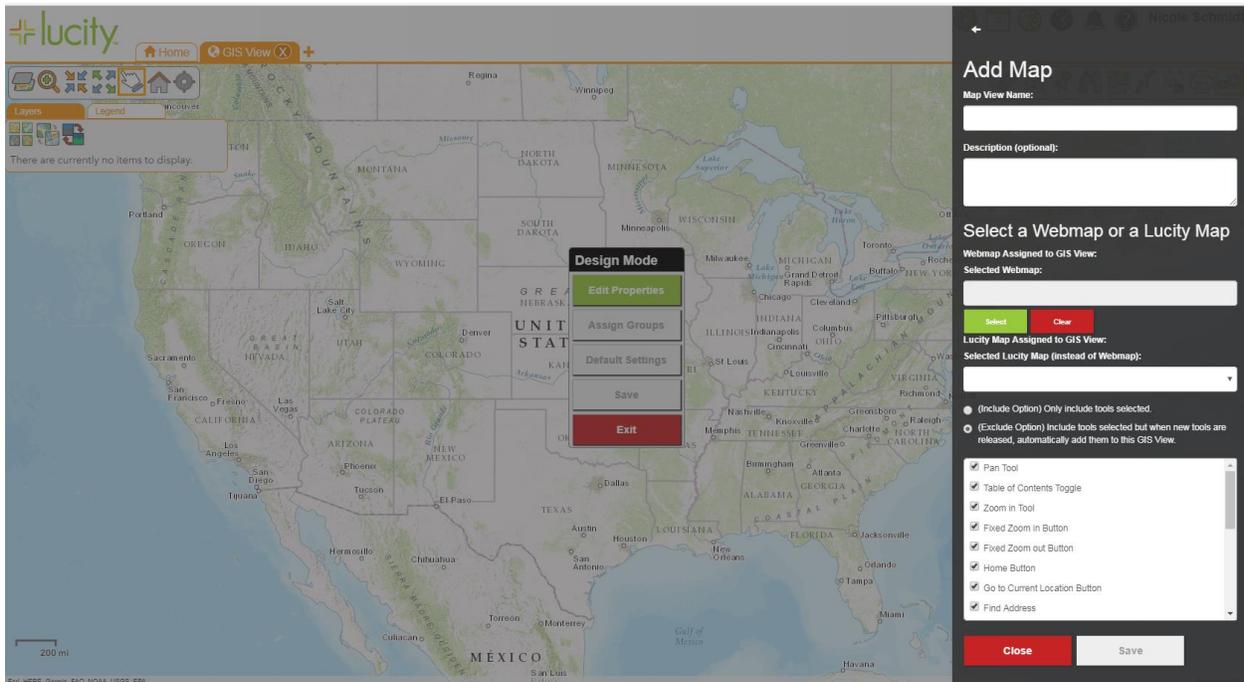


Creating a new GIS View

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

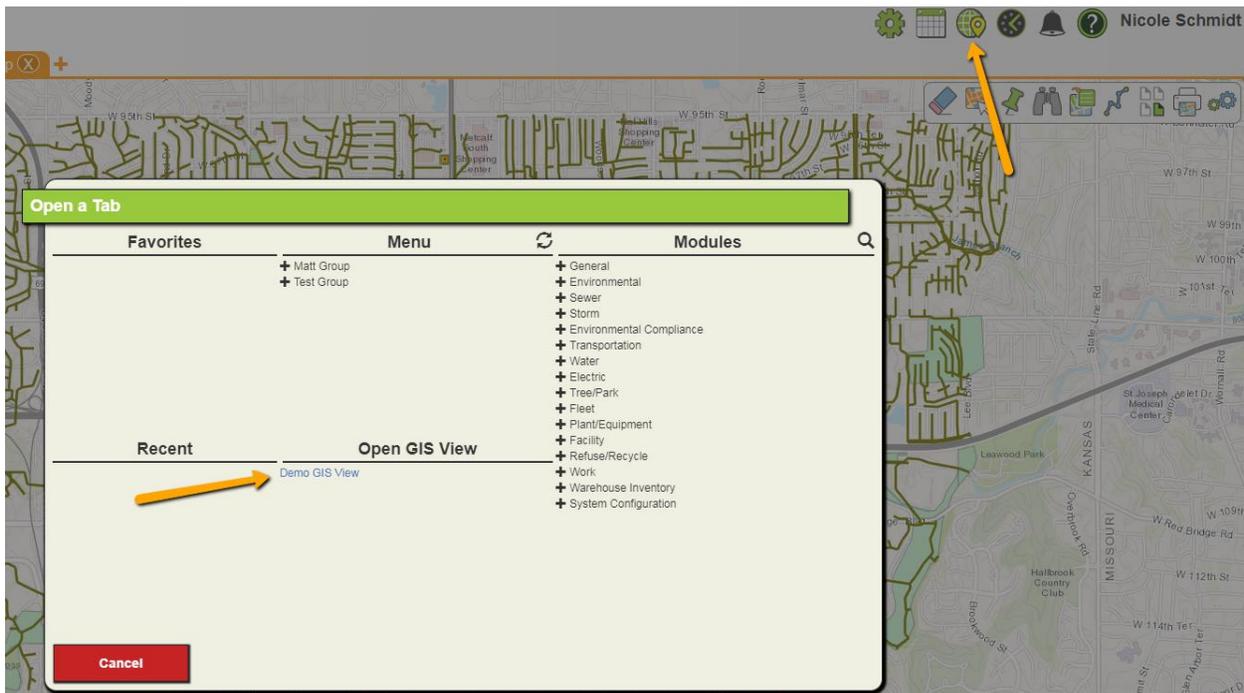


The view will open in design mode

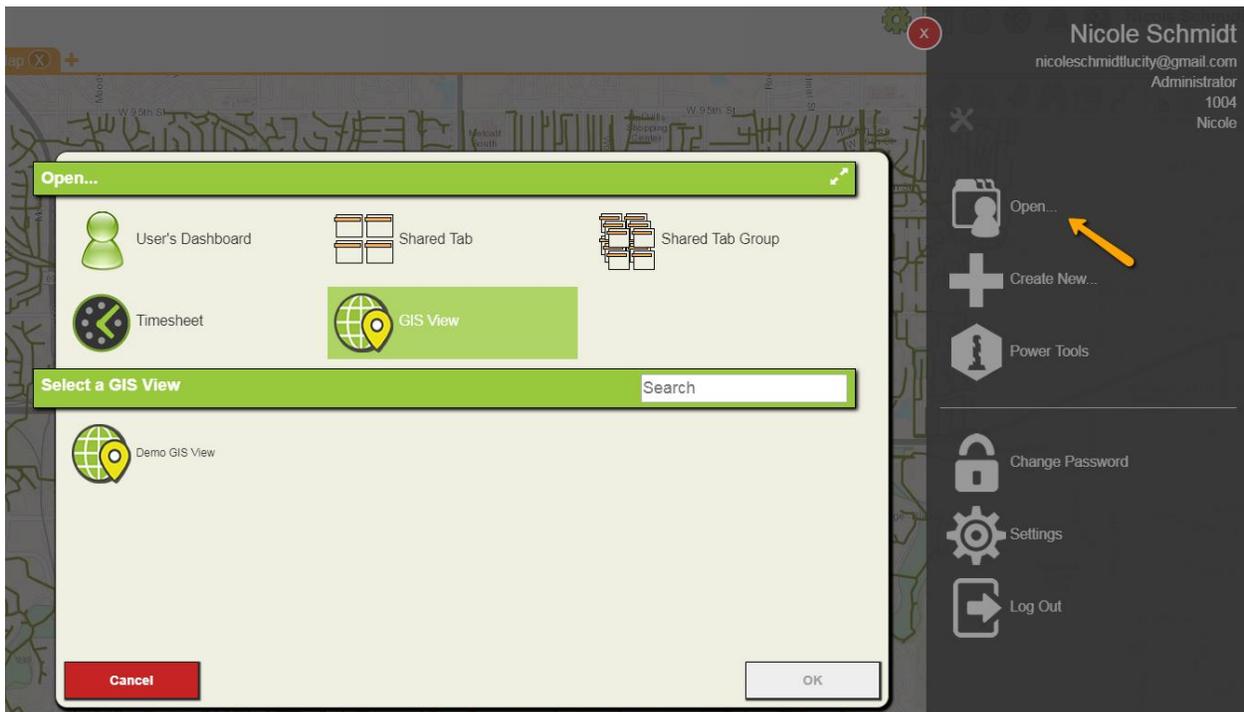


Editing an Existing View

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.



Configuring Layers and Base Maps

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.

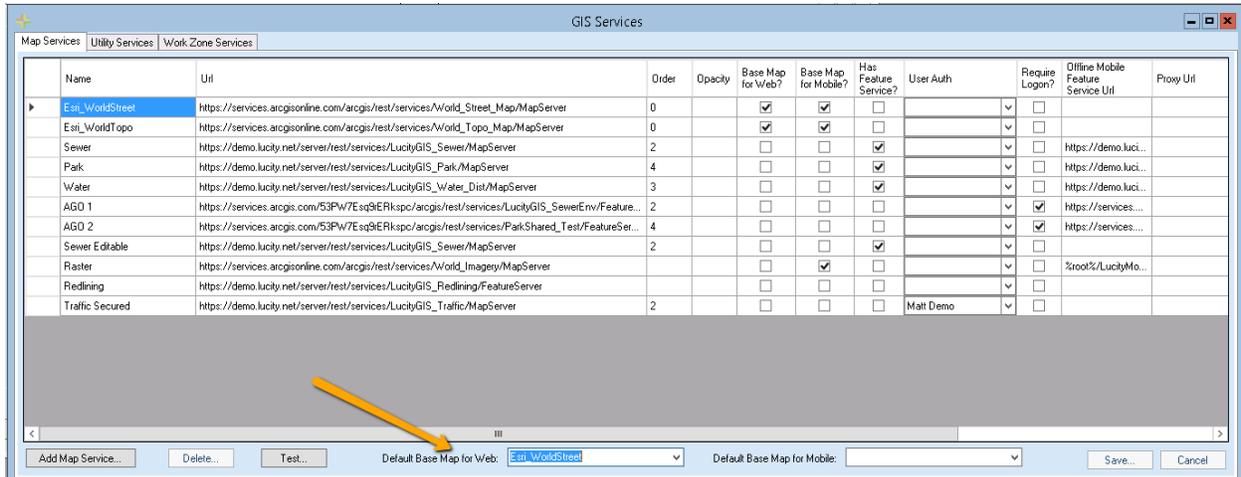
If you select a web map for the GIS View, the basemap will use the basemap configured for the selected web map. If you select a lucity map, the default basemap will be loaded.

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.

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:

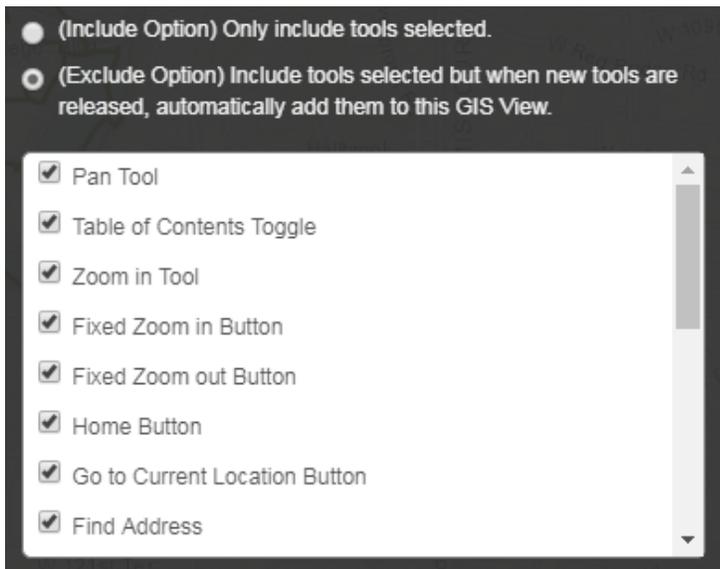


It will use this basemap. If not, and if the user is logged into portal, it will use the default basemap configured in the portal Organization settings.

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

Configuring Tools

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



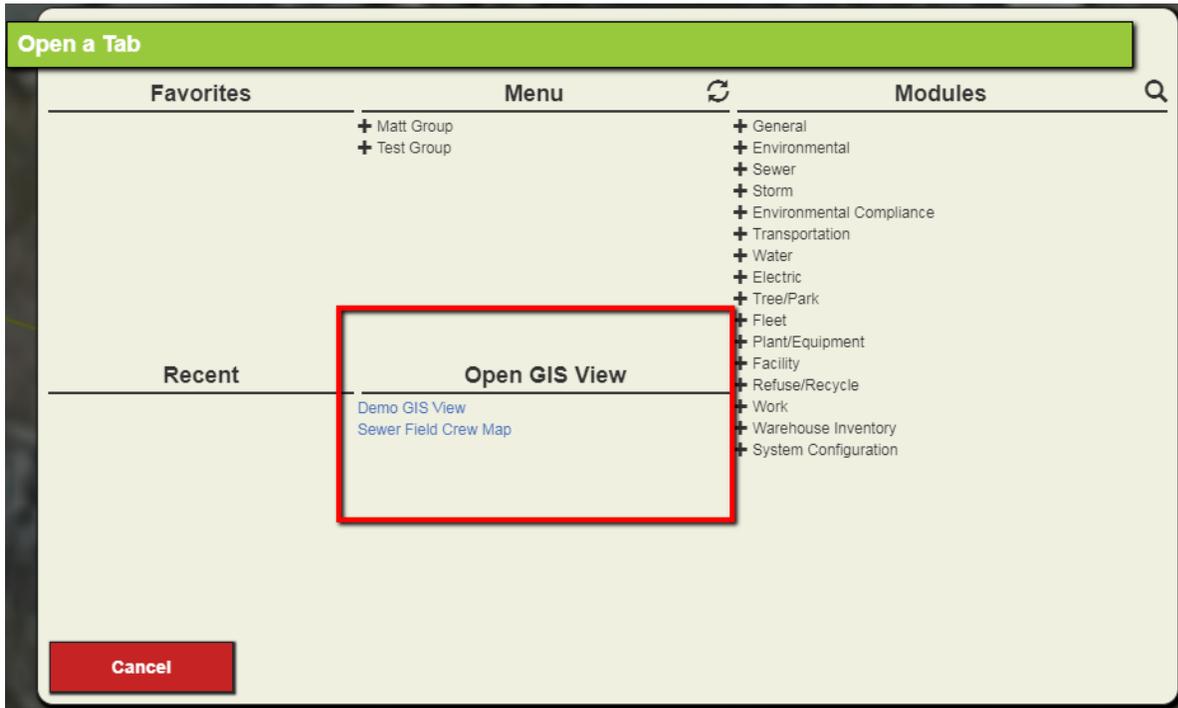
The “include” option allows you to specify a list of tools that are in the GIS View, and even after major upgrades which add new tools to the available list, only the tools you originally specified will be available for the user.

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:

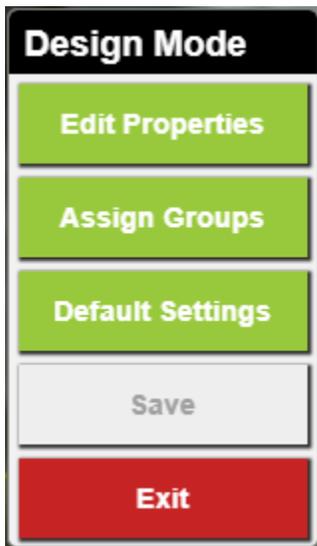


If the System Setting for “Allow access to all GIS Views to All Users” is TRUE, then all GIS Views you create will automatically show up in this list for all users. This is the default setting.

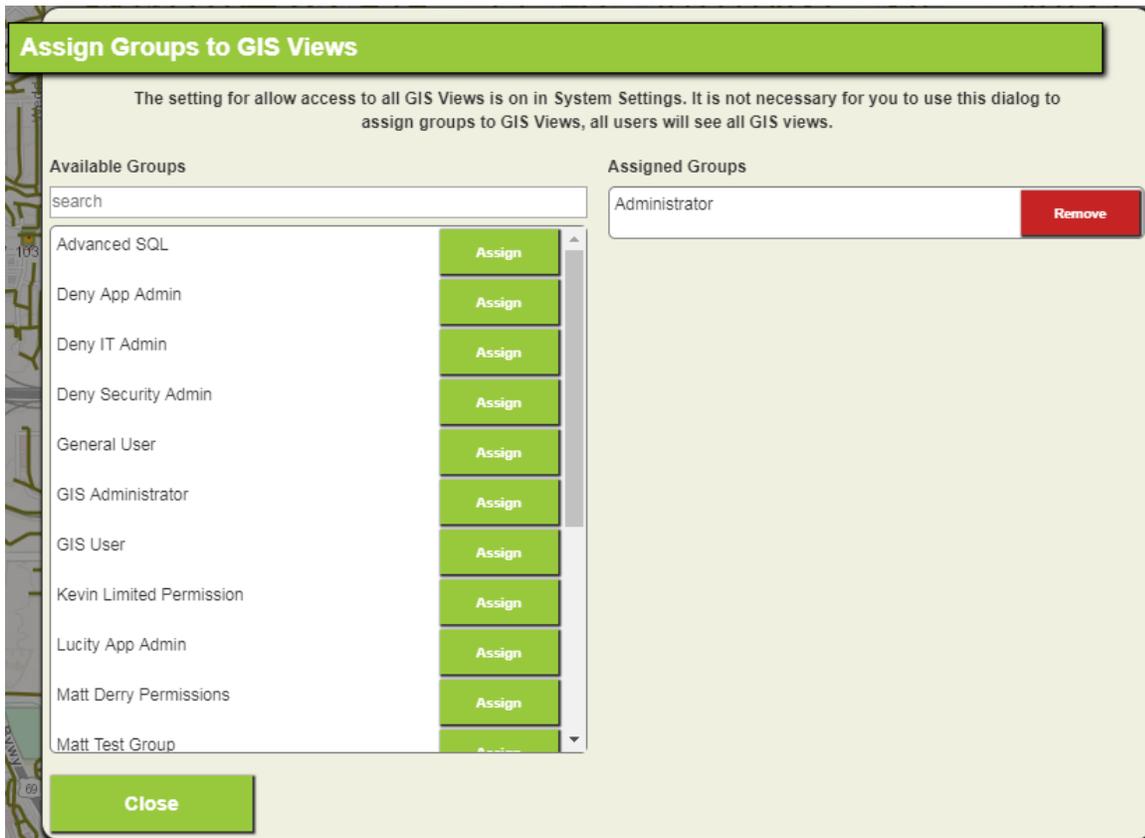
GIS Web	
Setting Description	Setting Value
Allow access to all GIS Views to All Users	TRUE
Automatically save redlining edits	FALSE
Comma separated criteria to use for a where clause if parcel layer is to be queried. Keywords are {BUILDING},{STREETNAME},{STREETNAME2},{ZIP}	ADG_ADR_BDG={BUILDING},ADDRESS='-%{STREETNAME}%'
Field name for Single Line Input Address Search	SingleLine
Force the GIS Web Map to always open to the default extent	TRUE
Operational Data Spatial Reference WKID	3419
Org Id for ArcGIS for Portal (optional)	
Preload GIS caches to speed initial map load	TRUE
Separator to use for Geocoding Intersections	
Street Address Geocoding Field	Address
Tag search string for Basemaps on Portal for ArcGIS or ArcGIS Online	
Tag search string for Portal for ArcGIS or ArcGIS Online	

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



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.

Configuring Default GIS View Settings

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

Configure Default GIS Views

These settings control which GIS view is opened from Show in Map or the GIS button in the widget bar. The system will first use default rules group GIS view assignments to find a GIS View to open. It will fall back to the system default GIS view. If no system default GIS view is assigned, it will grab any GIS view.

No GIS View has been assigned as system default yet. Make This GIS View The Global Default

Available Groups

search

Administrator Assign

RESTAPIGroup Assign

Groups Using This Map As Default

Close

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.

No GIS View has been assigned as system default yet. Make This GIS View The Global Default

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

Configure Default GIS Views

These settings control which GIS view is opened from Show in Map or the GIS button in the widget bar. The system will first use default rules group GIS view assignments to find a GIS View to open. It will fall back to the system default GIS view. If no system default GIS view is assigned, it will grab any GIS view.

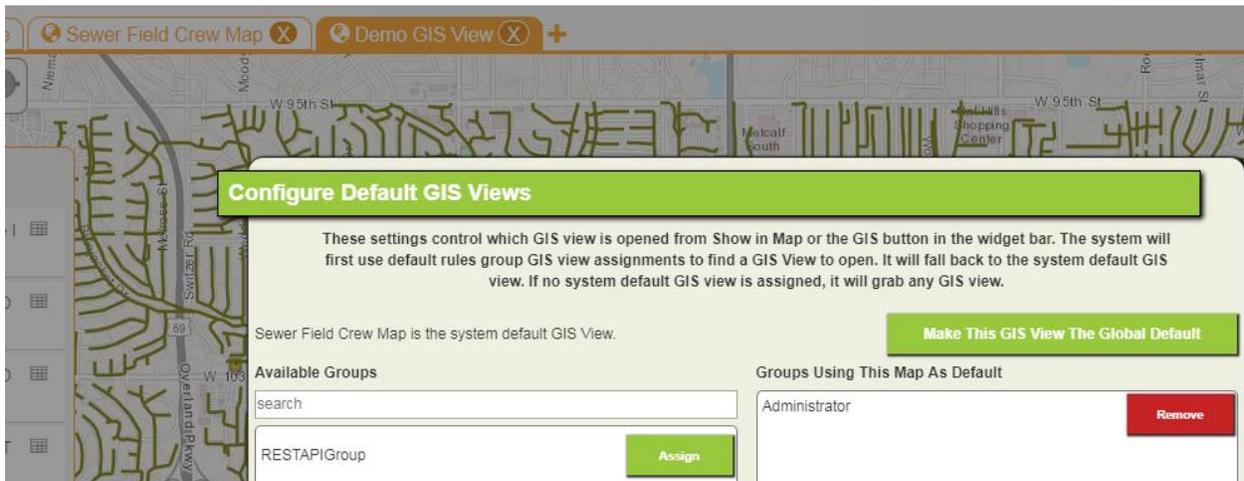
This GIS View is the system default GIS View.

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

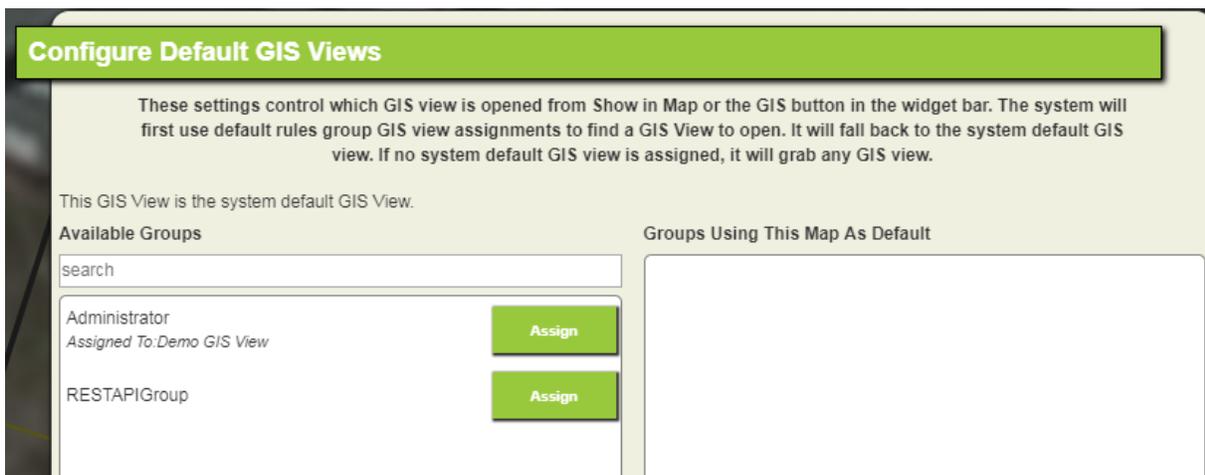


Within this dialog, you can assign a different GIS View for different users using their Default Rules Group.

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".



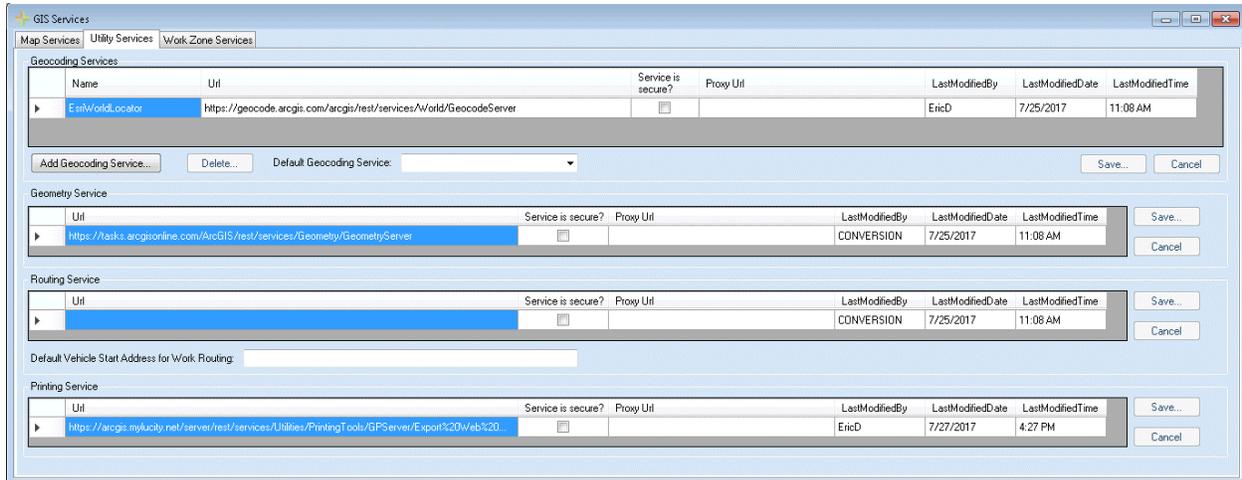
This dialog will also display the existing GIS View that a default rules group is assigned to:



These changes are automatically saved.

Utility services in Lucity Admin

There are still several services which must be configured in the Lucity Admin program in Lucity 2017r2 even if you are using the Portal Integration.



Geocoding Service

The geocoding service is required for searching for an address or for reverse geocoding address points from the web map.

Also relevant for geocoding is the Single Line Input field, which is used by the geocoding service. In Lucity 2017r2, this is in the System settings, it will be moved to the same location as the geocoding service configuration for Lucity 2018.

Setting Description	Setting Value	Setting Category
Allow access to all GIS Views to All Users	TRUE	GIS Web
Automatically save redlining edits	FALSE	GIS Web
Comma separated criteria to use for a where clause if parcel layer is to be queried. Keywords are {BUILDING},{STREETNAME},{STREETNAME2},{ZIP}	ADG_ADR_BDG={BUILDING},ADDRESS=%{STREETNAME}%	GIS Web
Field name for Single Line Input Address Search	SingleLine	GIS Web
Force the GIS Web map to always open to the default extent	TRUE	GIS Web
Operational Data Spatial Reference WKID	3419	GIS Web
Org Id for ArcGIS for Portal (optional)		GIS Web
Preload GIS caches to speed initial map load	TRUE	GIS Web
Separator to use for Geocoding Intersections		GIS Web
Street Address Geocoding Field	Address	GIS Web
Tag search string for Basemaps on Portal for ArcGIS or ArcGIS Online		GIS Web
Tag search string for Portal for ArcGIS or ArcGIS Online		GIS Web

Geometry Service

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

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.

Printing Service

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.

Deprecated System Settings

There are many system settings in Lucity 2017r2 that were not removed or hidden but should have been. These system settings have no impact on the GIS Web Map. The following system settings are not used:

Setting Description	Setting Value	Setting Category
Allow access to all GIS Views to All Users	TRUE	GIS Web
Automatically save redlining edits	FALSE	GIS Web
Comma separated criteria to use for a where clause if parcel layer is to be queried. Keywords are {BUILDING},{STREETNAME},{STREETNAME2},{ZIP}	ADG_ADR_BDG={BUILDING},ADDRESS=%{STREETNAME}%	GIS Web
Field name for Single Line Input Address Search	SingleLine	GIS Web
Force the GIS Web Map to always open to the default extent	TRUE	GIS Web
Operational Data Spatial Reference WKID	3419	GIS Web
Org Id for ArcGIS for Portal (optional)		GIS Web
Preload GIS caches to speed initial map load	TRUE	GIS Web
Separator to use for Geocoding Intersections		GIS Web
Street Address Geocoding Field	Address	GIS Web
Tag search string for Basemaps on Portal for ArcGIS or ArcGIS Online		GIS Web
Tag search string for Portal for ArcGIS or ArcGIS Online		GIS Web
URL to address layer in map service		GIS Web
Use an address layer for address queries instead of a geocoding service	FALSE	GIS Web
Use GIS Viewer instead of GIS Web for Show in Map	FALSE	GIS Web

Lucity Spatial

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

- Work Orders
- Requests
- PMs
- Sanitary and Storm TV and Assessment Inspection observations
- Street Routes
- Water Flushing
- Projects

There is a session dedicated to Lucity Spatial.

