

Charting the Course



# GIS Administration Tools Part 1



# Agenda

## Part 1 (3:00-3:50pm)

- Lucity Administration Tool
  - GIS Connection Strings
  - GIS Map Services
- Lucity Desktop
  - Show in Map settings
- ArcMap
  - Lucity settings
  - Symbology Defaults
- ArcCatalog
  - Lucity Show In Map Config tool
  - Default Fields Setup
  - Update Geodatabase Value Tool
  - Update Show in Map flag
- Lucity Geodatabase Config tool

## Part 2 (4:00-4:50pm)

An in-depth look (requirements, setup, how it works) for the new Lucity GIS tools that interact with map and feature services:

- Lucity Updates
  - using Lucity SOE
  - using Feature Services
- Lucity Spatial
- Lucity GIS Scheduled Tasks



# Lucity Administration Tool

## What you can do...

- Create geodatabase connections
- Specify map and feature service connections
- Configure GIS system settings
- Create map templates
- Clear Lucity cache

# Charting the Course

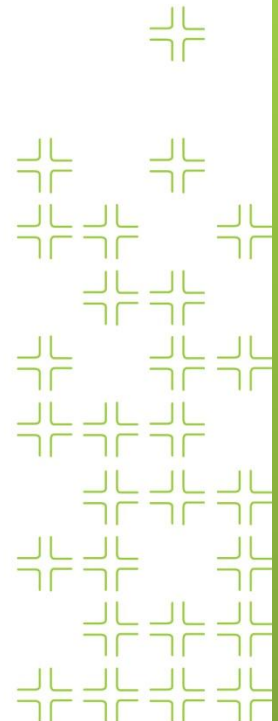


## Demo

# Lucity Geodatabase Configuration Program

## What it can do...

- Link GIS feature class and fields to Lucity
- Correlate GIS domains and Lucity picklist values
- Modify feature class schema based upon Lucity properties
- Configure feature class aliases
- Associate feature classes to map/feature services
- Add/modify/delete spatial relationships, number generators and scheduled tasks
- Specify geodatabase versions to interact with Lucity
- Run validations against geodatabases and map/feature services
- Plus more...





## Lucity Geodatabase Configuration Changes for 2014

Name	Description
Add Feature Class	➤ Now provides option to map to the following Lucity inspection modules: Storm MACP Insp., Storm Sampling, Sewer MACP Insp., Sewer Overflows, Sewer Structure Insp., Water Hydrant Flow Tests, Water Hydrant Insp., Water Losses, Water System Valve Insp.
Scheduled Tasks	➤ New tool to push inspection data from Lucity into feature class.
Edit Map Service	➤ Now provides ability to specify a feature service at the feature class level. This setting is used for the Spatial Updater service and Scheduled Tasks
Field Configuration	➤ Now supports mapping GIS composite DateTime fields to Lucity.



## Lucity Geodatabase Configuration Changes for 2014r2

Name	Description
Edit Map Service	➤ Services configured at the feature class level must now be defined in UI Admin Map Services module.
Update Feature Class Services	➤ New tool to associate map and feature services to multiple feature classes
Connection Properties	➤ The edit map service that is associated to the geodatabase can now be edited from the connection properties tab. ➤ A new Test Connection button is available with the edit map service, which will validate the map service connection.
Validations	➤ The validation results will now include testing of the map and feature service associated to the feature class.
Scheduled Tasks	➤ Added new task type “Sync- GIS to Lucity” in addition to the “Sync- Lucity to GIS” ➤ Enabled the ability to schedule the GIS Task and provides processing log details
Copy GIS Task	➤ New tool that can be used to copy a GIS Task template to other feature classes
Update Street Name Domains	➤ Adds ability to create a text domain for composite street name fields. ➤ In addition, each of the street component domains will now get applied to all feature class fields that are assigned to the corresponding street component field.
Update Work Category Domain	➤ New tool to create a domain for work category component fields. ➤ In addition, the domain will get applied to all feature class fields that are assigned to a work category component field.

# Charting the Course



## Demo



## Lucity GIS Admin Tools In ArcCatalog

### **Lucity Show in Map Configuration Tool**

- Set show in map settings for multiple users

### **Default Fields Setup**

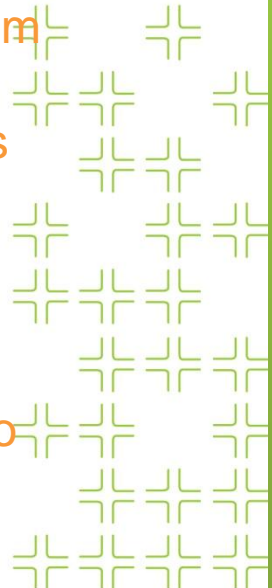
- Customize the editable grids that are displayed with the Lucity module tool in ArcMap when creating requests, work orders, PM/Work templates, and inspections.

### **Update Geodatabase Value**

- Quickly update the values in a feature class with the values from the related Lucity table.
- Useful if adding a new field to a feature class that currently has values in Lucity.

### **Update Show in Map Flag**

- Updates the show in map flag in the Lucity database.
- Sets flag for all records in Lucity module to FALSE, then sets to TRUE only if the record exists in the feature class.



# Charting the Course



## Demo

## Lucity GIS Admin Tools In ArcMap

### Lucity Alias Import

- Updates alias names associated with a feature class based upon .mxd settings.
- Performs some feature validations
- Recommended prior to publishing map/feature services that will be used with Lucity

### Lucity Settings

- Bypass Login and password
- Set a default client
- Default search tolerance
- Disable “Lucity will now be updated” prompt
- Disable Lucity Editor extension
- Show in Map options for request/wo/pm
- Symbology defaults
  - Save symbology templates to be used with the Lucity View Tools, View Work Frequency, View Work Locations, and TV Observation tools.



# Charting the Course



## Demo

## Other GIS Sessions

- ❑ **Lucity GIS Admin Tools Part 2** Mon 4-4:50pm (next)
  - Provides in-depth look at Lucity Spatial, GIS Scheduled Tasks and Lucity to GIS Updates via feature services
  
- ❑ **What is new in Lucity GIS 2014/2014r2** Tues 10-10:50am
  - Provides an overview all new tools and modifications with Lucity GIS since ACT 2013
  
- ❑ **ArcGIS Server Admin Part 1** Tue 2-2:50pm
  - Provides a look at ArcGIS For Server design, setup, configurations.
  
- ❑ **ArcGIS Server Admin Part 2** Tue 3-3:50pm
  - Provides an overview of various Esri tools to setup, configure, and maintain enterprise geodatabases
  
- ❑ **Lucity Webmap Overview** Wed 3-3:50pm
  - Provides an overview of all the tools available with the Lucity Web Map product

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# GIS Administration Tools Part 2



# Agenda

## Part 1 (3:00-3:50pm)

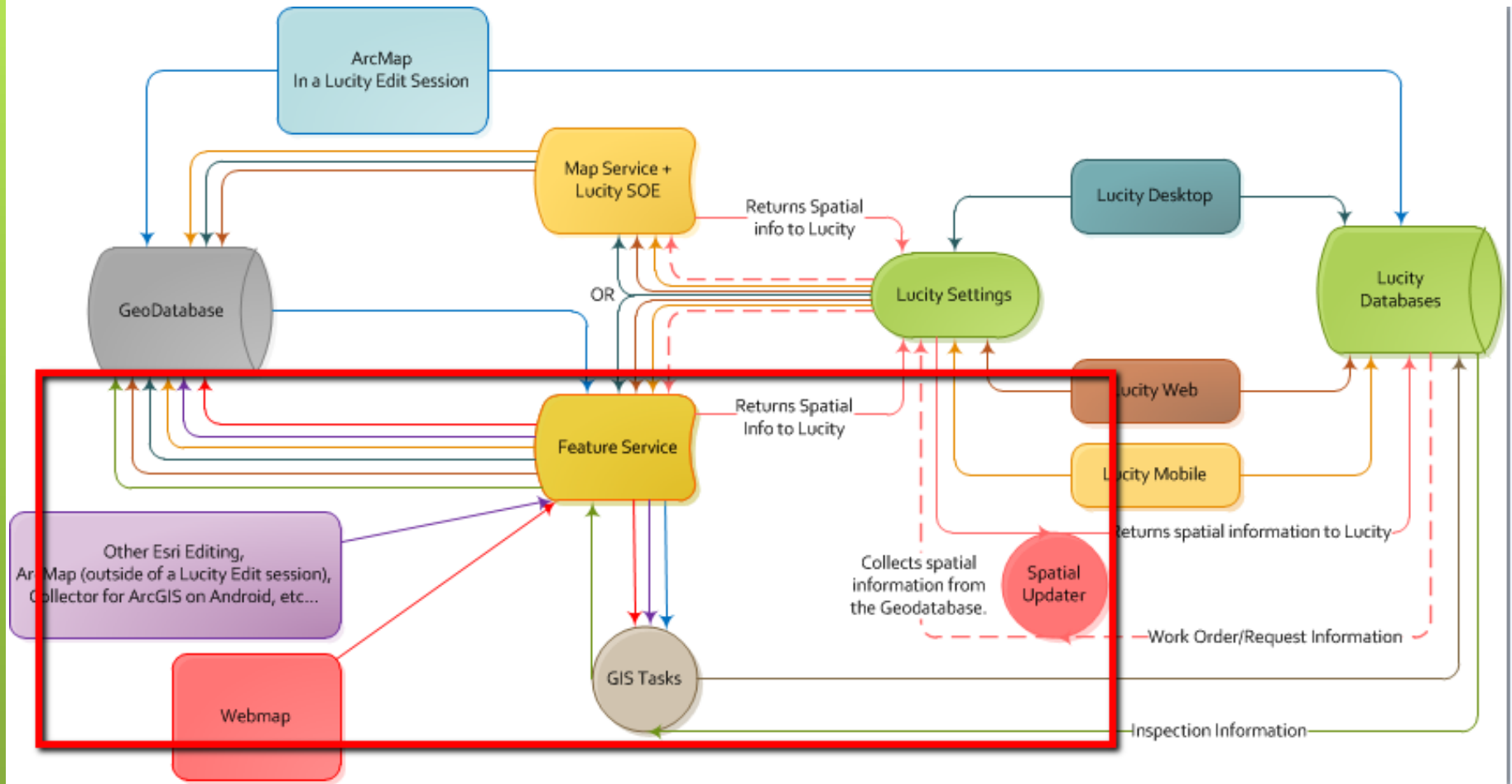
- **Lucity Administration Tool**
  - GIS Connection Strings
  - GIS Map Services
- **Lucity Desktop**
  - Show in Map settings
- **ArcMap**
  - Lucity settings
  - Symbology Defaults
- **ArcCatalog**
  - Lucity Show In Map Config tool
  - Default Fields Setup
  - Update Geodatabase Value Tool
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- **Lucity Geodatabase Config tool**

## Part 2 (4:00-4:50pm)

An in-depth look (requirements, setup, how it works) for the new Lucity GIS tools that interact with map and feature services:

- **Lucity Updates**
  - using **Lucity SOE**
  - using **Feature Services**
- **Lucity Spatial**
- **Lucity GIS Scheduled Tasks**

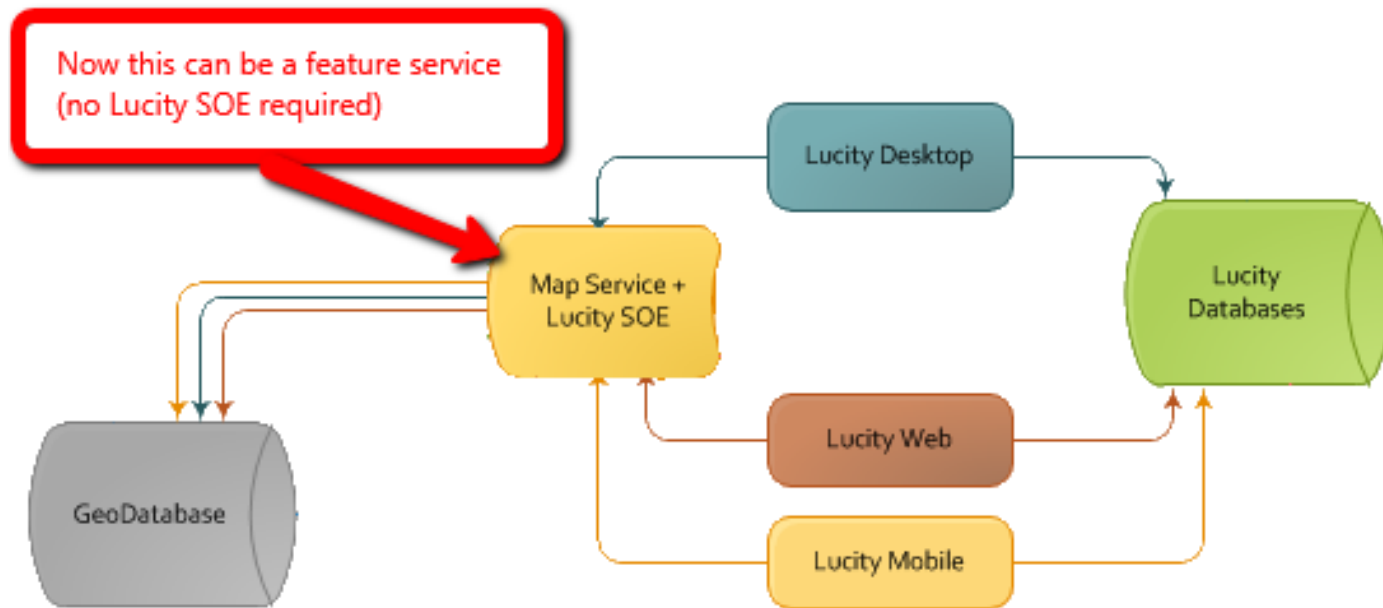
# Lucity GIS Integration





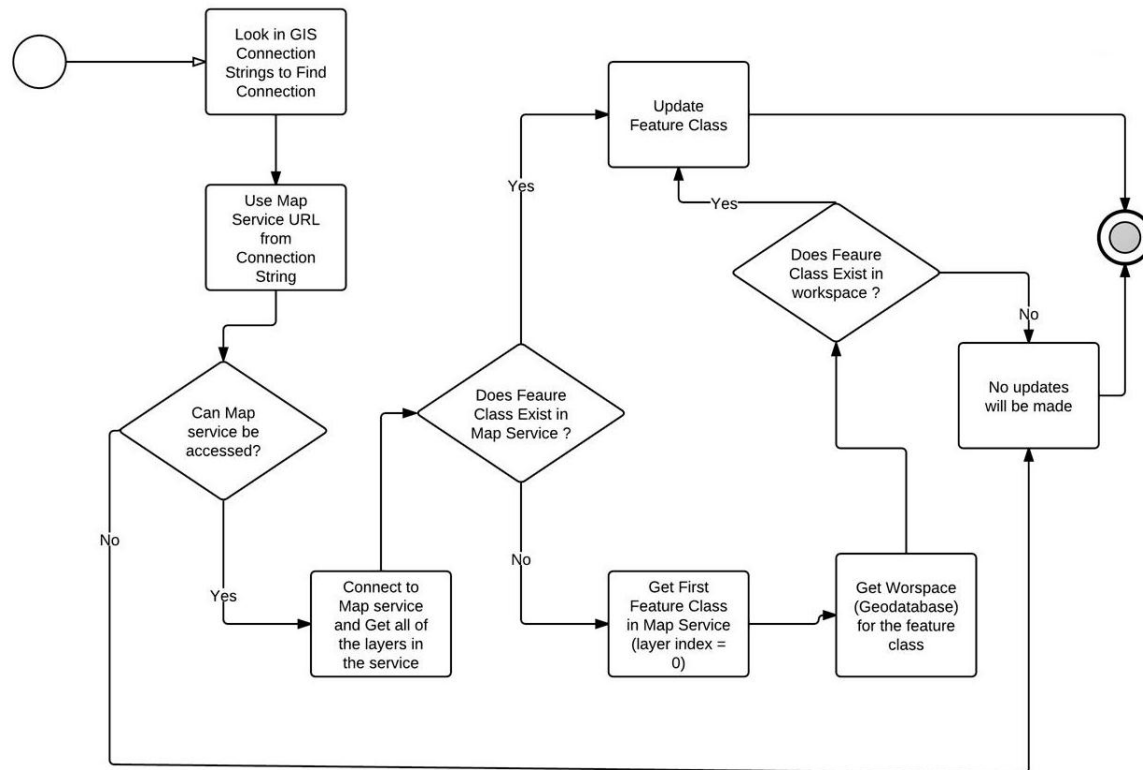
## Lucity to GIS Updates

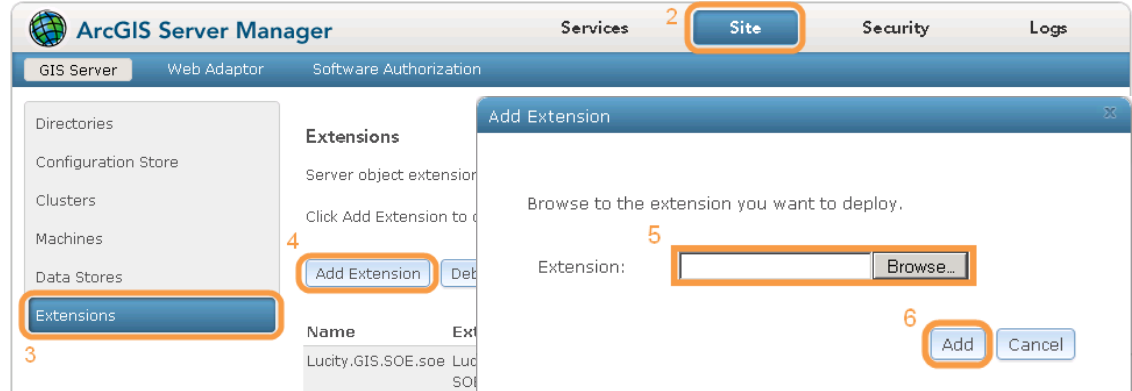
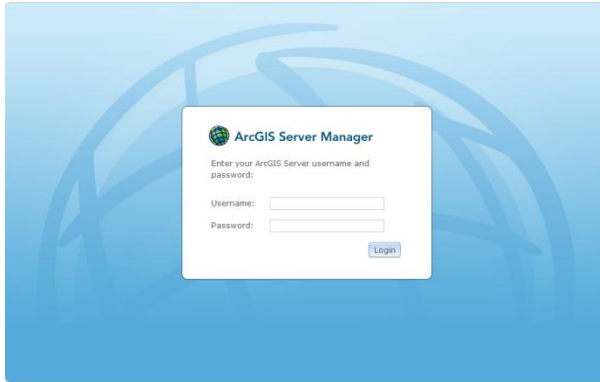
- Lucity has always provided the ability that when an attribute edit is made to a record in the Lucity interface the corresponding feature in the geodatabase is also updated.
  - This applies to edits made in Lucity Desktop, Web, Mobile
- With 7.6, the Lucity SOE was the only option available for pushing the updates to the geodatabase.
- With 2014r2, a new option is provided for pushing attribute edits to the geodatabase via a Feature Service using the ArcGIS REST API.



## Lucity to GIS Updates using a Lucity SOE

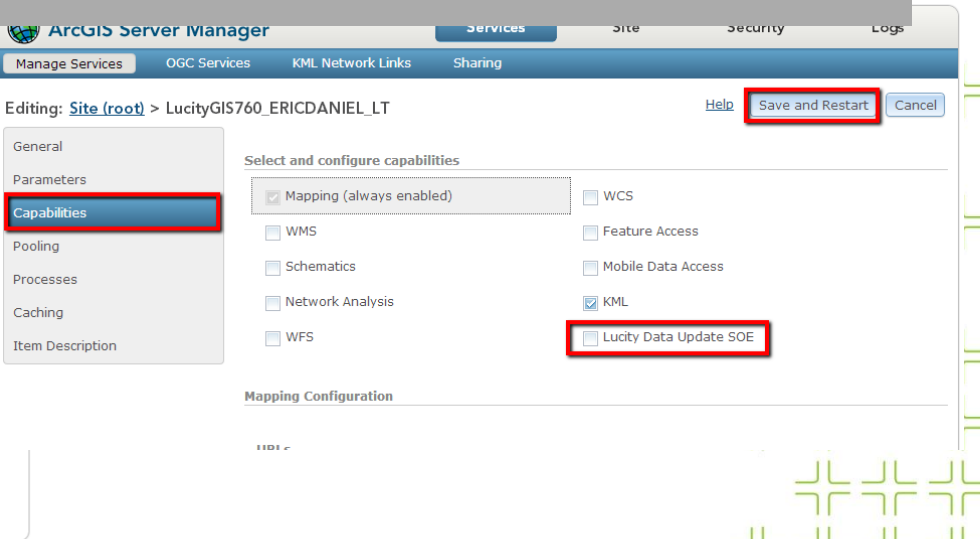
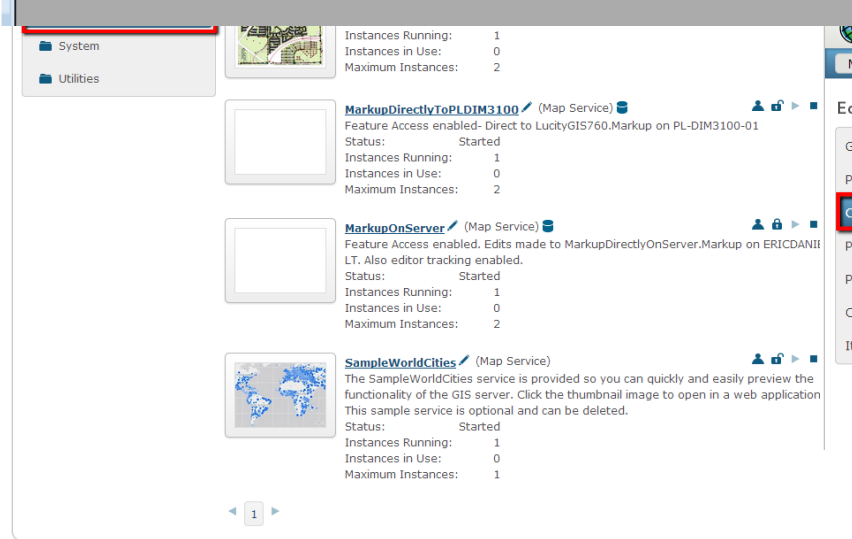
- If the map service does not contain all Lucity linked feature classes then the feature class at layer index = 0 in the service must be connected using a user account that has edit permissions to all Lucity linked feature classes.
- The feature classes in the map service must be connected using a user account that has edit permissions.
- The feature classes in the map service must be pointed to the version that Lucity should update.





GIS Connection Strings

Name	Database Type	Database	Server	Instance	Version	Authentication Type	UserName	Password	Edit Map Service Url	Map Service User	Map Service Password	LastModifiedBy	LastMod
DEFAULT	SDE	LucityGISDev	LCT-ARCSRV-01	sde:sqlserver:LC...	dbo.DEFAU...	DB	GISEditor	*****	http://lct-arcsrv-0...			daniel	7/8/201...





## Lucity to GIS Updates using a Feature Service

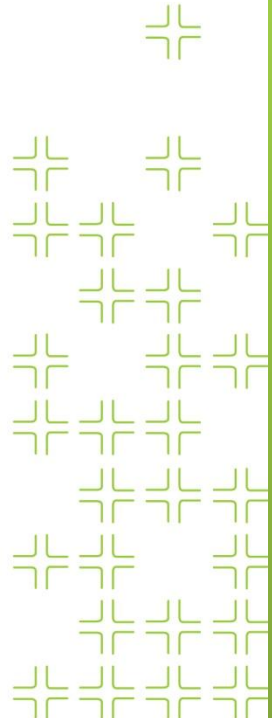
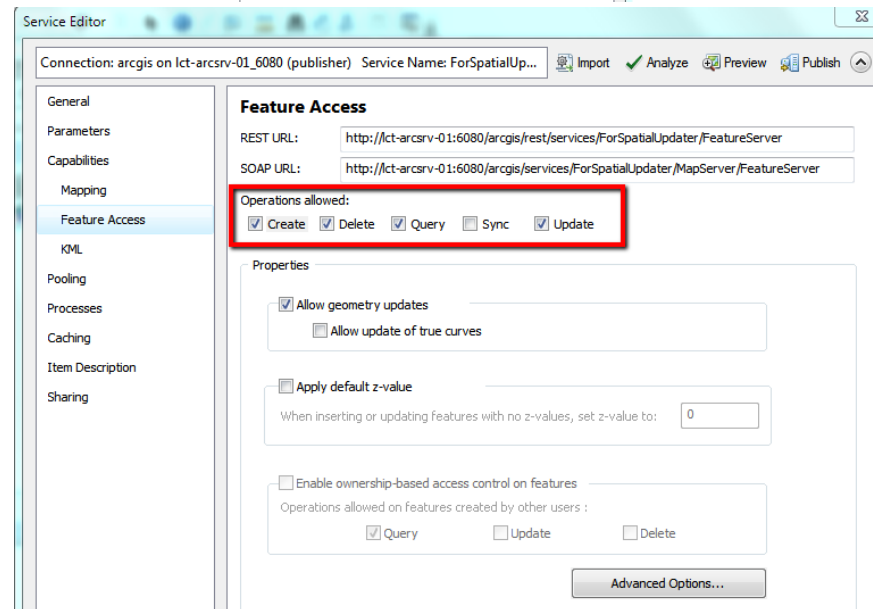
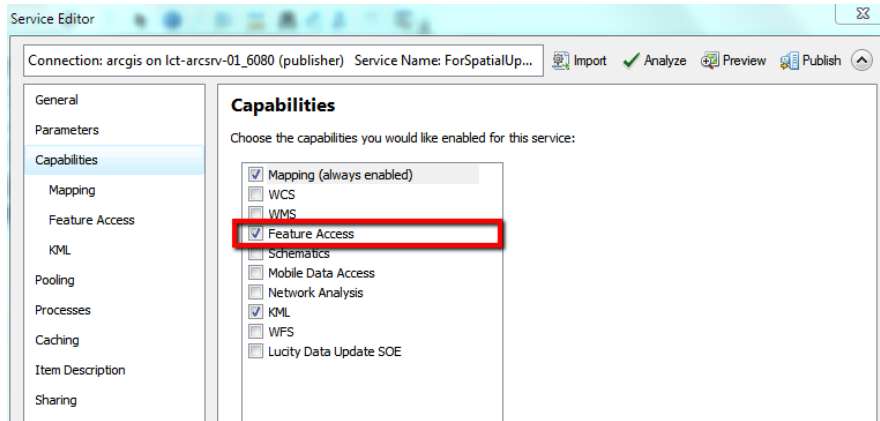
### Requirements:

- Each Lucity linked feature class must be assigned to a default map service
  - If a service is defined at the feature class level then that one will be used; otherwise, it will use the service defined at the geodatabase level
- The default map service for the feature class must:
  - Contain the feature class
  - The feature class alias as listed in the service must be configured with Lucity
  - Enabled Feature Access capabilities with at least the Query and Update operations allowed.
- The “Use Feature Service instead of Lucity SOE” system setting in UI Admin must be set to true.



# Lucity to GIS Updates using a Feature Service

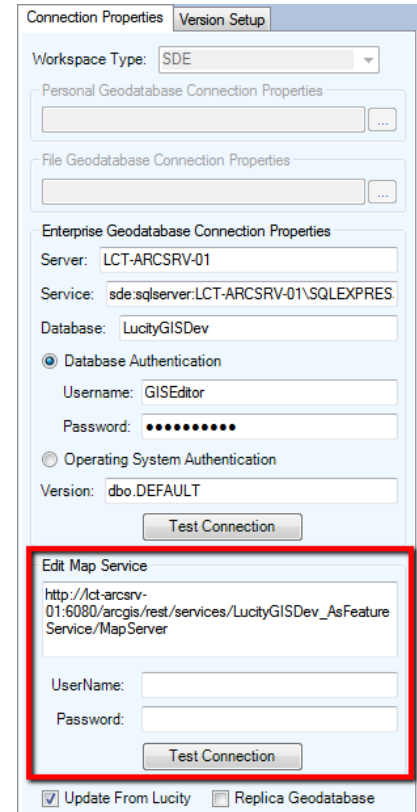
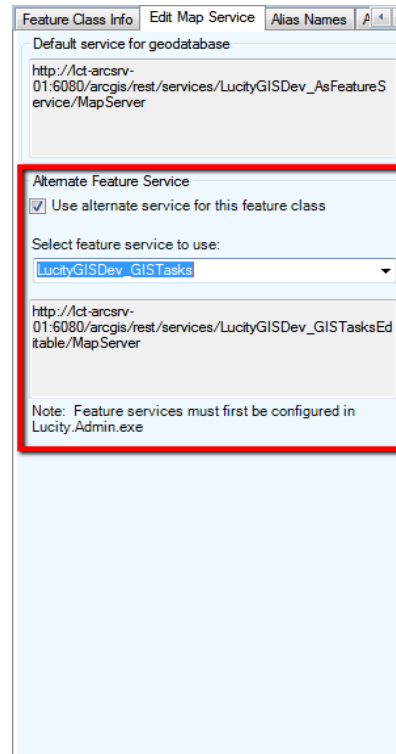
## Enabling Feature Access:



# Lucity to GIS Updates using a Feature Service

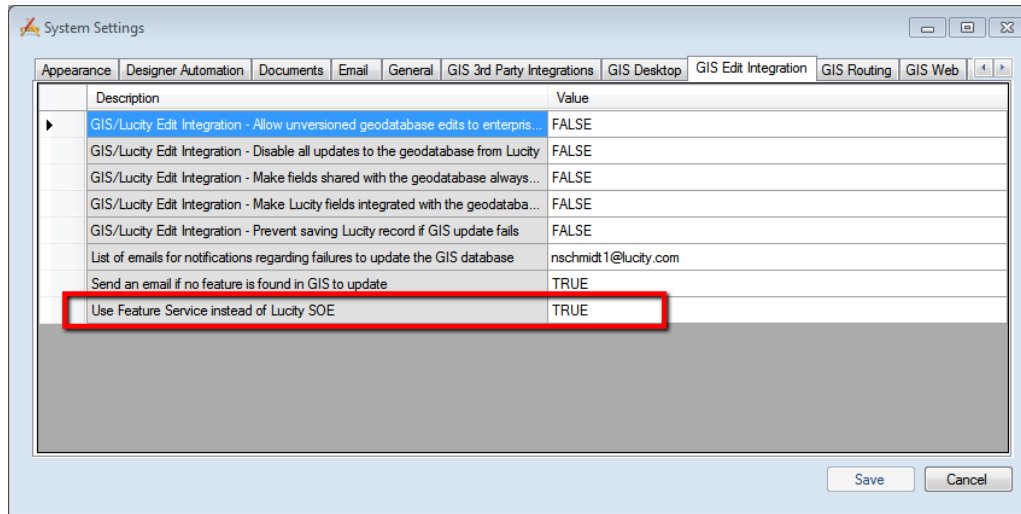
## Assign a default service:

- The geodatabase edit map service is defined in the Geodatabase Configuration Tool in ArcCatalog. It is listed under the Connection Properties tab when you have a geodatabase node selected.
- A service defined at the feature class level will be listed under the Edit Map Service tab when you have the feature class node selected.



# Lucity to GIS Updates using a Feature Service

## Assign system settings:

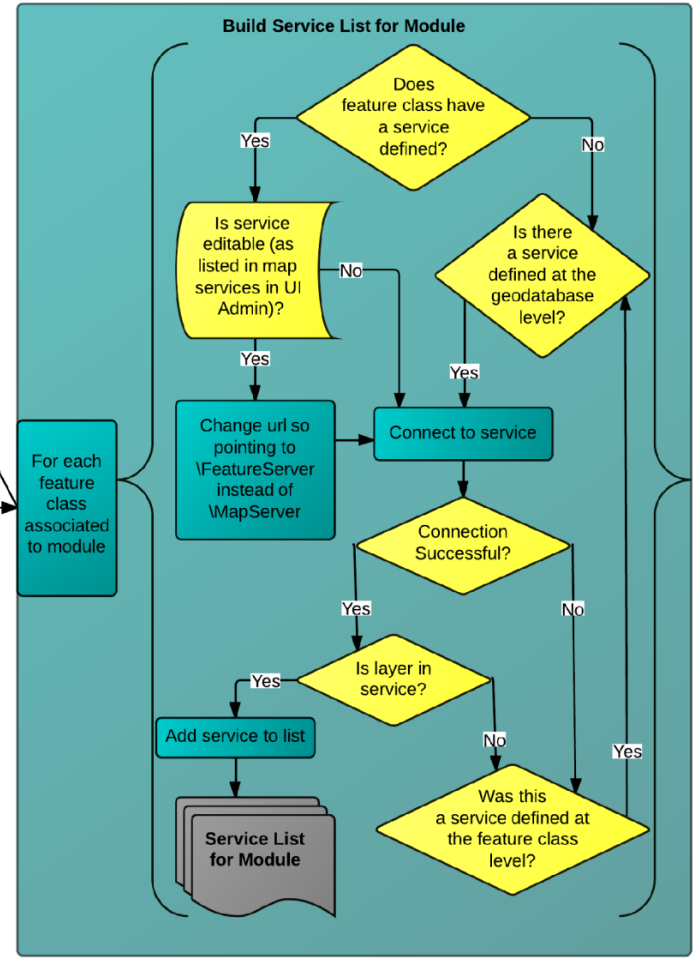
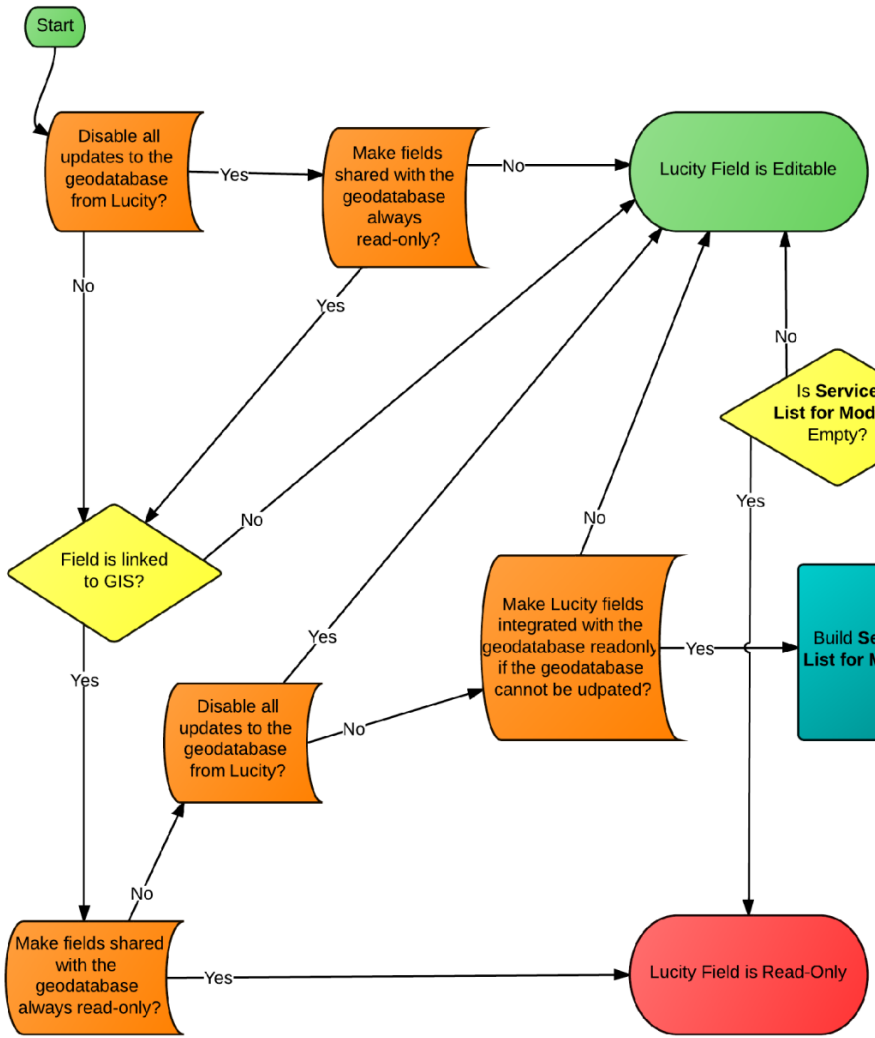


- **Allow unversioned geodatabase edits to enterprise geodatabase:** This allows edits to be made to unversioned geodatabases.
- **Disable all updates to the geodatabase from Lucity:** This prevents the geodatabase from being updated with edits made in Lucity desktop and web.
- **Make fields shared with the geodatabase always read only:** Any field that is shared with the geodatabase will be set as read-only in Lucity desktop and web.
- **Make Lucity fields integrated with the geodatabase read only if the geodatabase cannot be updated:** If a connection to the geodatabase fails when loading a form, all fields integrated with the geodatabase will be read only.
- **Prevent saving Lucity record if GIS update fails:** (Web Only) If a modification is made to a record in Lucity and the geodatabase fails to get updated this will prevent the record in Lucity from being saved.
- **List of emails for notifications regarding failures to update the GIS database:** Enter a comma delimited list of email addresses. This list will receive emails when the GIS update fails to update the geodatabase.
- **Send an email if no feature is found in GIS to update:** Sends an email when the GIS Update cannot find a feature in the geodatabase to update. This is sent to the list specified in the **List of emails for notifications regarding failures to update the GIS database** setting.



# Lucy GIS Updates- Process that determines the editability of a Lucy field

Lucy System Setting

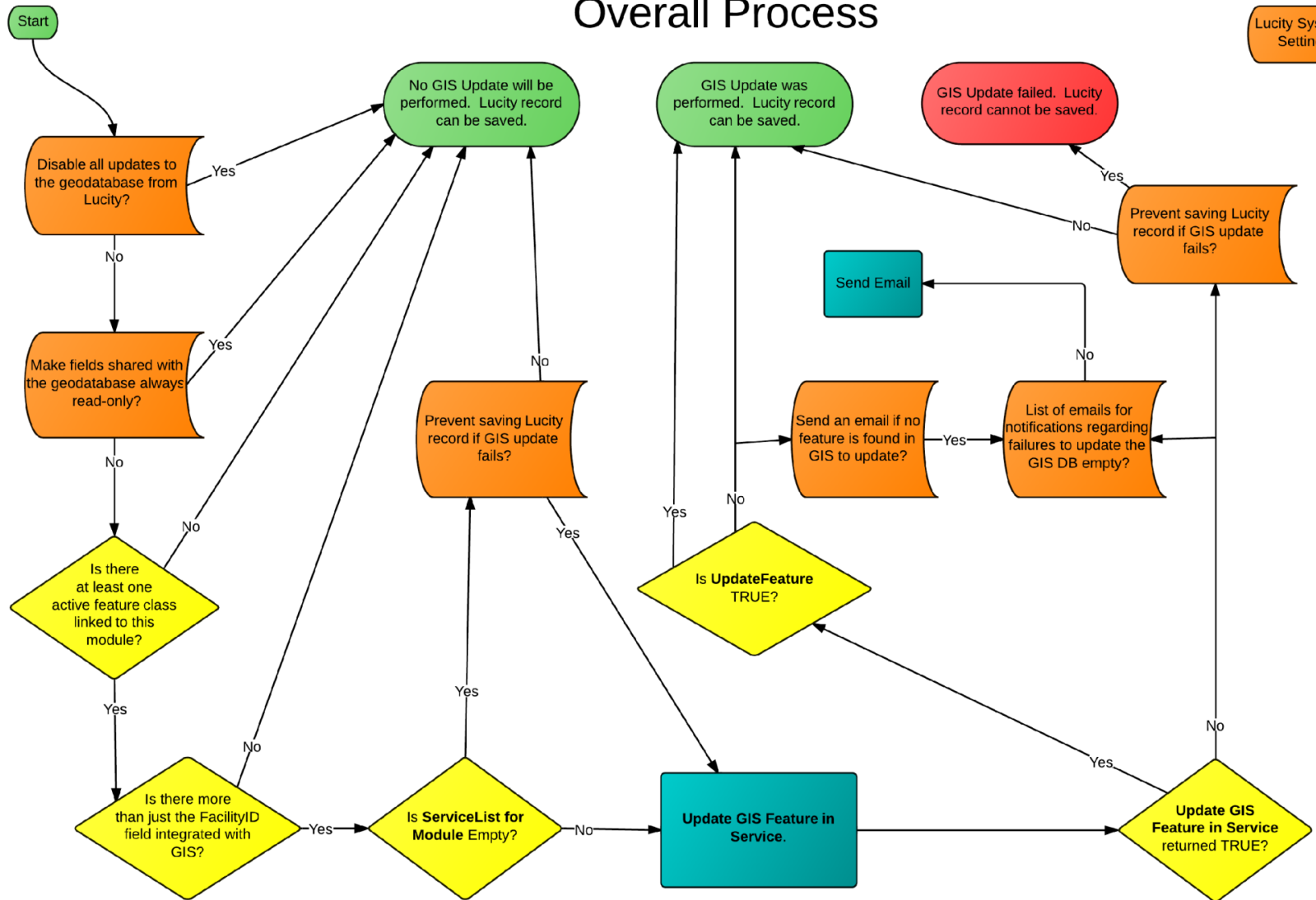






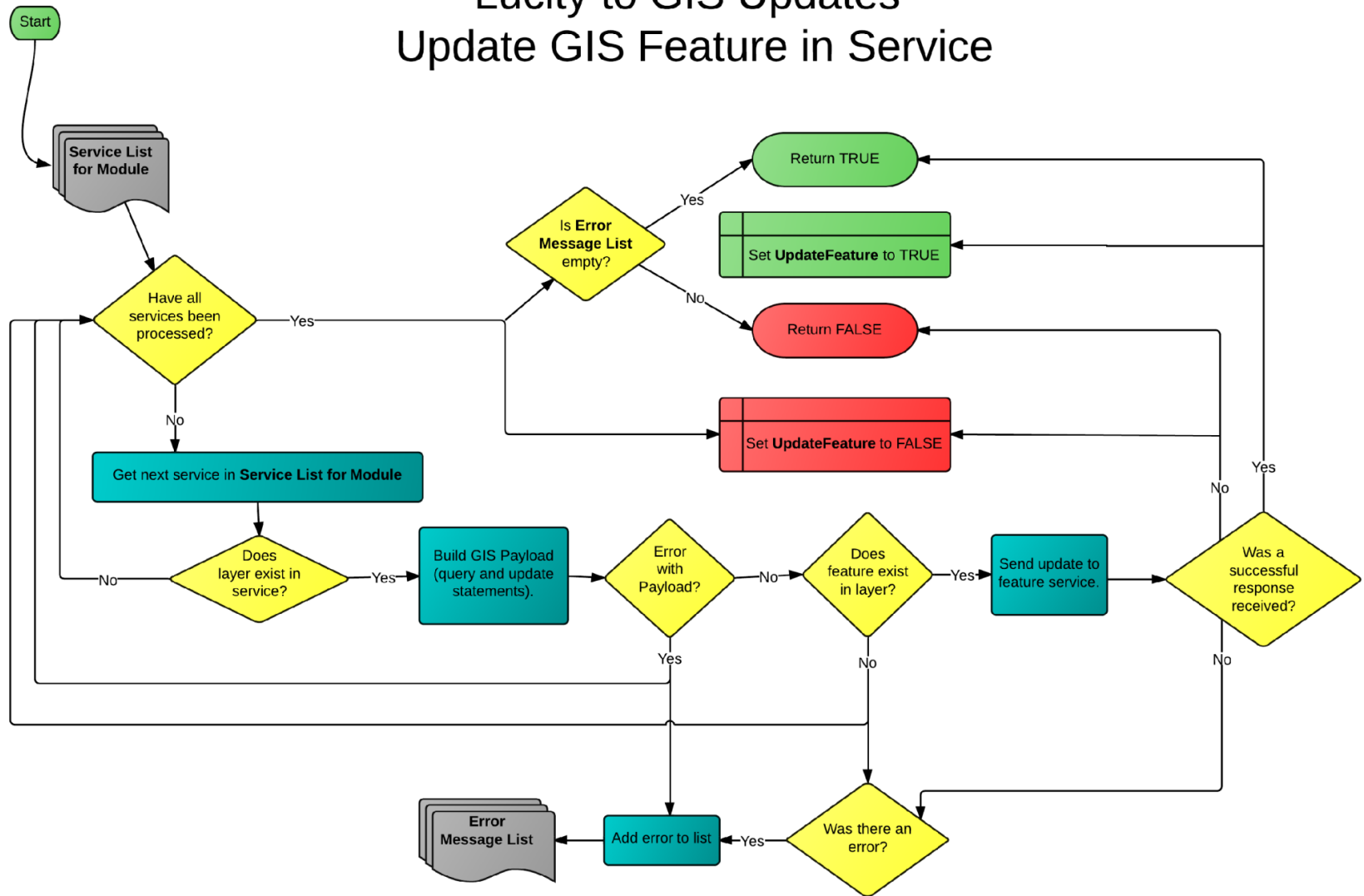
# Lucidity to GIS Updates- Overall Process

Lucity System  
Setting





# Lucidity to GIS Updates- Update GIS Feature in Service



# Charting the Course



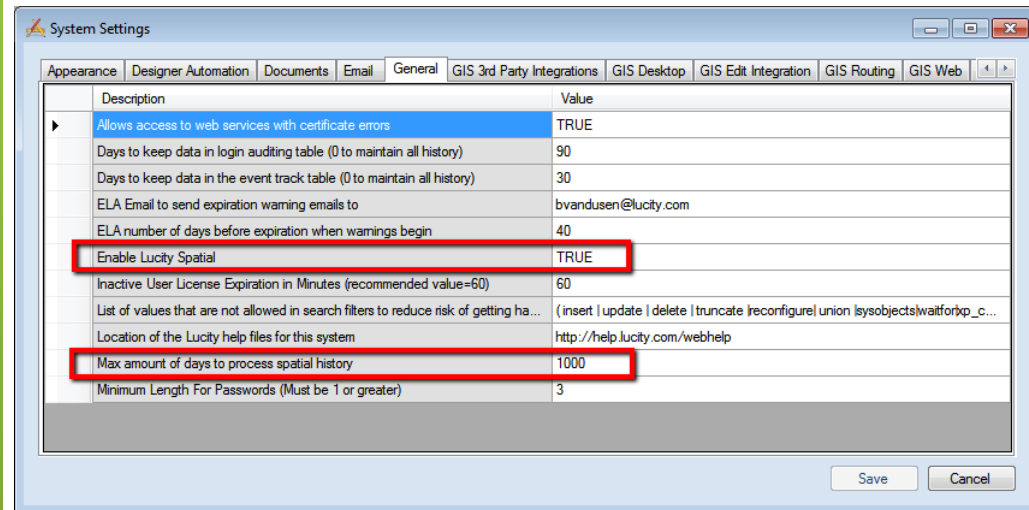
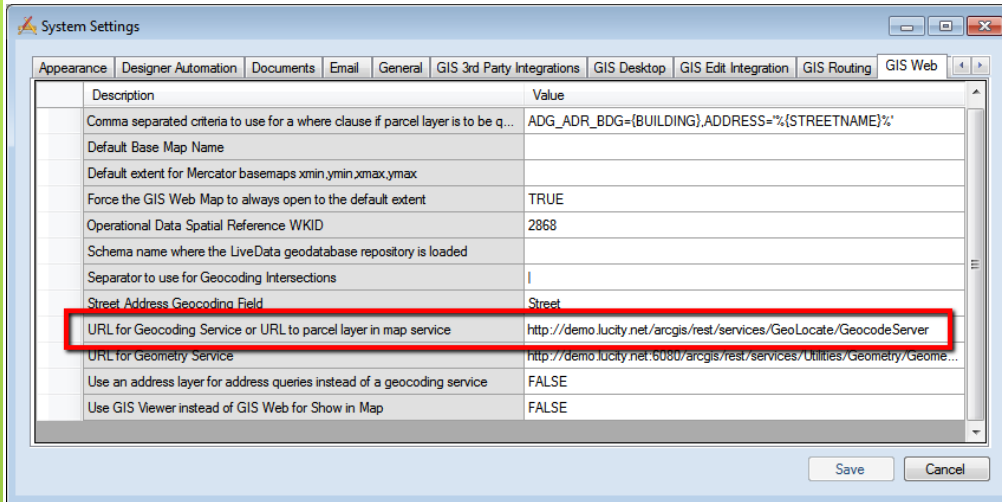
## Demo

- **Lucity can now be configured to store work request and work order spatial information directly in the Lucity database.**
  - As work orders are created, updated, deleted a new service processes the changes and writes the spatial information directly in the Lucity database.
    - Spatial information includes: addresses, x/y, and asset locations
  - The Lucity Work Viewer tool in ArcMap allows users to create custom views to these spatial tables allowing for display of live work data in the various Lucity GIS solutions

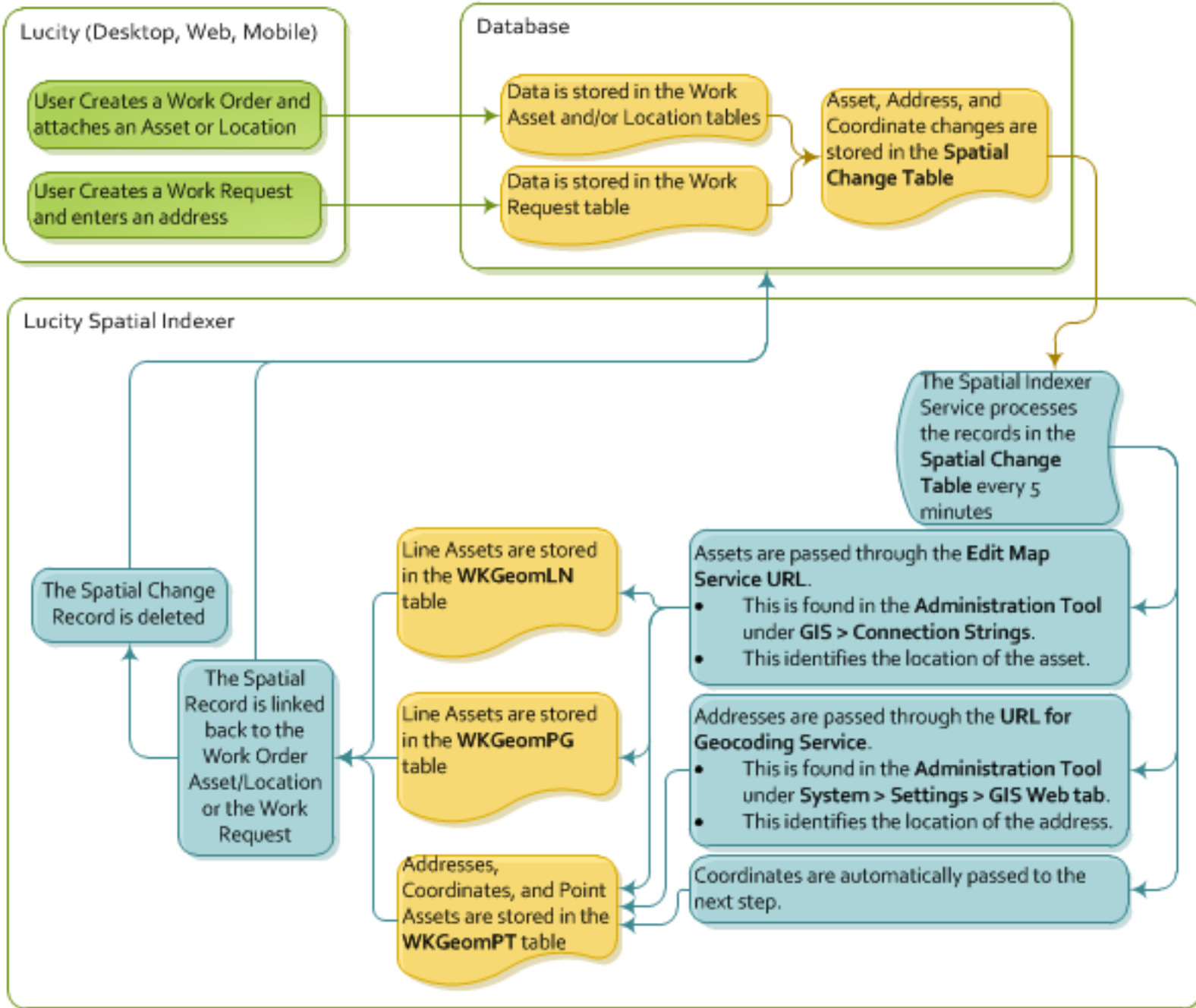
### Requirements:

- The Lucity Work database must be one of the following:
  - SQL Server 2008 or higher
  - Oracle with MDSYS.SDO\_GEOMETRY data type enabled
- The Lucity Services must be installed
- Each Lucity linked feature class must be assigned to a default map service
- Lucity linked feature classes must be one of the following geometry types:
  - Point
  - Line, polyline
  - Polygon
- System Settings in UI Admin must be configured



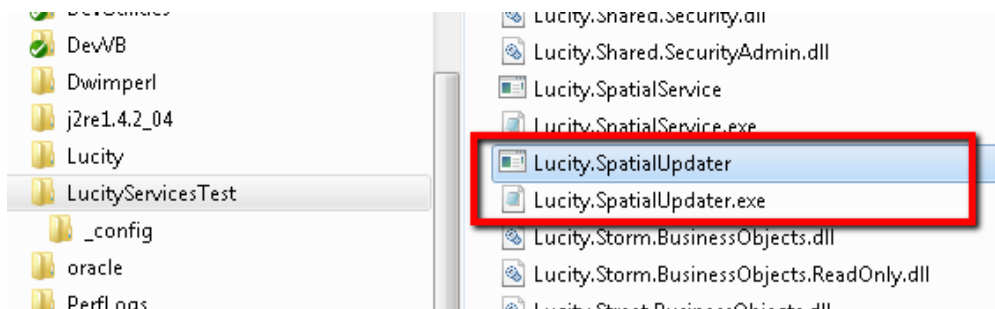


- Requires a url to the geocoding service that can be used to determine the coordinates of work location addresses
- Enable Lucity Spatial must be set to TRUE
- Max amount of days to process spatial history must have a value greater than 0.
  - **Example:** If 180 is entered, the Lucity Spatial Updater will process all work items modified today and within the last 180 days.
- The Lucity Spatial Updater service is reliant on back end configuration that was added to the Lucity database in version 7.4. Therefore, depending on your upgrade history there could be a few years worth of work data that has the potential to be processed.

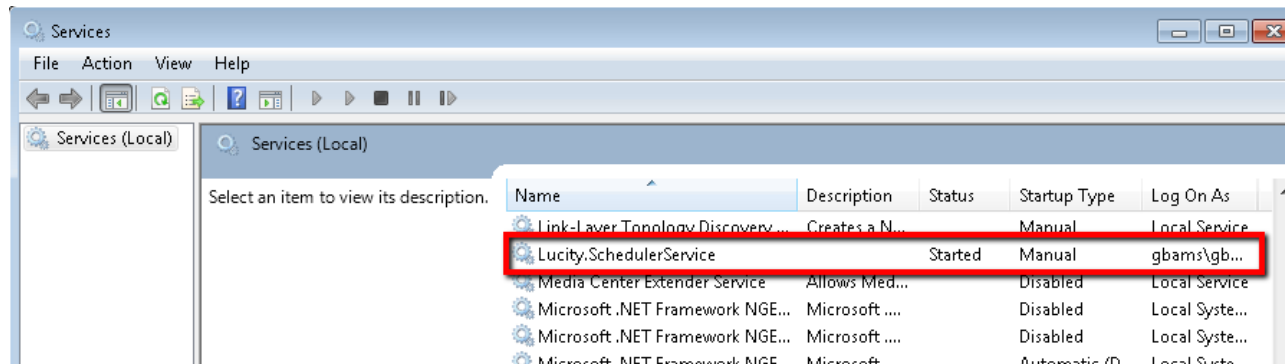


## Lucity Spatial- How it works

- A Lucity.SpatialUpdater.exe is included with the Lucity Services install.
  - This .exe is responsible for processing any records from WKSPATIALCHANGE that are due for processing

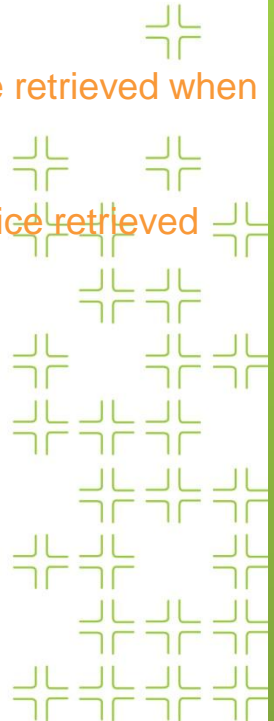


- Lucity.SpatialUpdater.exe runs every 5 mins as part of the new Lucity Scheduler Service that is included with the Lucity Services install.



## The following GBAWork tables and views are used with Lucity Spatial:

- **WKSPATIALCHANGE:**
  - This table is updated automatically by the Lucity application with any change made to Work Requests and Work Orders that deal with location information.
  - The Lucity Spatial Updater service processes these records by obtaining their corresponding geometries
- **WKGEOMPT**
  - This table stores all point geometries populated by the Lucity Spatial Updater service retrieved when processing WKSPATIALCHANGE
- **WKGEOMLN**
  - This table stores all linear geometries populated by the Lucity Spatial Updater service retrieved when processing WKSPATIALCHANGE
- **WKGEOMPG**
  - This table stores all polygon geometries populated by the Lucity Spatial Updater service retrieved when processing WKSPATIALCHANGE
- GIS\_WKGEOMLNQR- View showing all linear Request locations
- GIS\_WKGEOMPGRQ- View showing all polygon Request locations
- GIS\_WKGEOMPTRQ- View showing point Request locations (asset only)
- GIS\_WKGEOMPTRQLOC- View showing point Request locations (address and x/y)
- GIS\_WKGEOMLNWO- View showing all linear Work Order locations
- GIS\_WKGEOMPGWO- View showing all polygon Work Order locations
- GIS\_WKGEOMPTWO- View showing point Work Order locations (asset only)
- GIS\_WKGEOMPTWOLOC- View showing point Work Order locations (address and x/y)





Records that fail to process will be marked with an error code and remain in the WKSPATIALCHANGE table for 30 days at which point they are deleted.

	SPCH_X	SPCH_Y	SPCH_GUID	SPCH_PROCDTTM	SPCH_LINK1	SPCH_SU_ERROR	SPCH_SU_DESC
1	NULL	NULL	cb3e1898-97cb-4a90-9ccb-2ae0791d3ede	2014-07-25 13:04:40.680	NUNIT.X	ServiceIssue	No feature classes linked to [ElectricPushbrace]
2	NULL	NULL	f2f24a6f-dfda-4ac1-a653-0a5a3ca45068	2014-08-21 08:26:32.113	TestStringcode	MissingData	Invalid AssetCategory [SPCH_CATINV]
3	NULL	NULL	47ef1fea-e79c-45b3-a948-873a6ba7b624	2014-08-21 08:49:32.630	NULL	MissingData	Invalid ParentRecID [SPCH_PARENTID]
4	NULL	NULL	84374915-b0d0-4199-a39a-73e442640046	2014-08-22 08:46:34.043	NULL	NoGeometry	Unable to Find Address [102 MAIN ST]
5	NULL	NULL	84374915-b0d0-4199-a39a-73e442640046	2014-08-22 08:46:34.043	TEST	NoGeometr	Issue with retrieving Geometry: []

## Error codes:

- **MissingData-** Usually means that there was an issue with the data in WKSPATIALCHANGE like the moduleID is invalid, ParentRecID is invalid, invalid x/y data, etc.
- **ServiceIssue-** This occurs if there isn't a map service associated with the feature class or the feature class related to the asset type is not in the service
- **NoGeometry-** Returned if a geometry was found but was empty, if the indexer was unable to geocode an address, or if there was an issue with the REST call to retrieve the geometry.
- **NoLucityRecord-** Returned if the associated record no longer exists in Lucity

## How to Process Records that have failed:

1. In the WKSPATIALCHANGE table find the record that failed
2. Review the error code for the record and resolve the problem
3. Delete the contents of the SPCH\_GUID and SPCH\_SU\_ERROR fields for the record
4. The next time the Lucity Spatial Updater service runs it will attempt to process the record again.

# Create Live Work Layer Tool

- Lucity Spatial- Work Order Locations
  - Work Order Locations - Address/XY
    - LucitySpatialType
      - ★ Address
      - ★ X/Y
  - Work Order Locations - Point Assets
    - <all other values>
    - Category Text
    - Equipment
  - Work Order Locations - Line Assets
    - <all other values>
    - Category Text
    - Park Fence
    - Sewer Service
  - Work Order Locations - Polygon Assets
    - <all other values>
    - Category Text
    - Park
- Lucity Spatial- Work Request Locations
  - Work Request Locations - Address/XY
    - 2
  - Work Request Locations - Point Assets
    - Traffic Signs
  - Work Request Locations - Line Assets
    - Storm Weir
  - Work Request Locations - Polygon Assets
    - Storm BMP Site

Time				HTML Popup			Lucity Field Links		
General	Source	Selection	Display	Symbology	Fields	Definition Query	Labels	Joins & Relates	
Time				HTML Popup			Lucity Field Links		
General	Source	Selection	Display	Symbology	Fields	Definition Query	Labels	Joins & Relates	
Time				HTML Popup			Lucity Field Links		
General	Source	Selection	Display	Symbology	Fields	Definition Query	Labels	Joins & Relates	
Time				HTML Popup			Lucity Field Links		
General	Source	Selection	Display	Symbology	Fields	Definition Query	Labels	Joins & Relates	

Extent

Top: 849970.031496 ft

Left: 752443.519357 ft      Right: 754132.011811 ft

Bottom: 846508.664698 ft

Data Source

Data Type: Query Feature Class

Client: SQLServer

Connection Properties: GBAMS-DEV-01\DEV

Database: GBWorkDev

User name: LUCITY\_USER

Feature Type: Simple

Geometry Type: Line

Coordinates have Z values: No

Coordinates have measures: No

# Publishing Live Work Layers

ArcGIS Server Properties

Data Store Types

Registered Databases

- LucityGIS760
- LucityGIS760onPLDIM3100
- LucityGISDev\_GISEditor
- LucityGISDev\_GISViewer

Registered Folders

[About registering databases and folders](#)

Database Connection

Database Platform: SQL Server

Instance: ERICDANIEL-LT

Authentication Type: Database authentication

User name: LUCITY\_USER

Password: .....

Save user name and password

Database: GBAWork760

[About Database Connections](#)

Register Database

Register Database with the ArcGIS Server

Name: GBAWork760

Publisher database connection

Server database connection

Same as publisher database connection

[About registering your data with ArcGIS Server](#)

- LucityGISDev on ERICDANIEL-LT as GISAdmin.sde
- LucityGISDev on ERICDANIEL-LT as GISEditor.sde
- LucityGISDev on ERICDANIEL-LT as GISViewer.sde
- PL-DIM3100-01 direct with server.sde
- Replica750 as GISAdmin.sde
- GIS Servers
  - Add ArcGIS Server
  - Add ArcIMS Server
  - Add WCS Server
  - Add WMS Server
  - Add WMTS Server
  - arcgis on demo.lucity.net\_6080 (admin)
  - arcgis on demo.lucity.net\_6080 (publisher)
  - arcgis on ERICDANIEL-LT\_6080 (admin)
  - arcgis on ERICDANIEL-LT\_6080 (publisher)
- System
  - Utilities
    - LucityGIS760\_ERICDANIEL\_LT
    - LucityGISDev\_Markup
    - LucityGISDev\_Parcels
    - LucityGISDev\_Parks
    - LucityGISDev\_stSegment\_AddressLocator
    - LucityGISDev\_WaterSewerStorm
    - SampleWorldCities
  - Drafts

1

2

3

4

# Charting the Course



## Demo

## Lucity GIS Scheduled Tasks

- Scheduled Tasks are designed to push data back and forth between Lucity and the geodatabase. There are two types of synchronizations:
  1. **Lucity to GIS**- Only supported for inspection feature classes
  2. **GIS to Lucity**- Supported for all GIS enabled modules
  
- Scheduled tasks can be configured to run automatically using a new service, Lucity GIS Task Runner.
  
- This functionality greatly expands the Lucity and GIS integration capabilities with use of feature services. Edits to the feature service, regardless of who did it and what environment they did it in, can be picked up by Lucity.

Some potential examples:

- Collector for ArcGIS (iOS & Android)- including disconnected editing
- Lucity Web Map
- ArcGIS.com map viewer
- Any other 3<sup>rd</sup> party app that supports feature service editing
  - [http://resources.arcgis.com/en/help/main/10.2/index.html#/Using\\_feature\\_services\\_in\\_a\\_client\\_application/0154000005sq000000/](http://resources.arcgis.com/en/help/main/10.2/index.html#/Using_feature_services_in_a_client_application/0154000005sq000000/)



## Lucity GIS Scheduled Tasks

### Requirements:

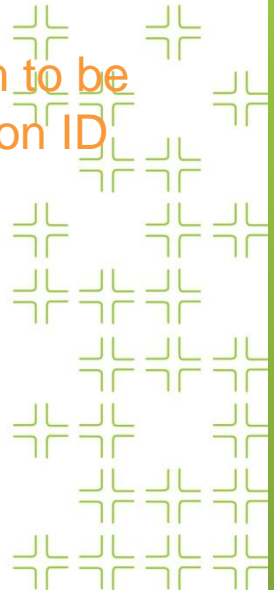
- Each Lucity linked feature class must be assigned to a default map service
- The map service for the feature class must:
  - Contain the feature class
  - The feature class alias as listed in the service must be configured with Lucity
  - Lucity To GIS synchronization tasks also requires Enabled Feature Access capabilities (with Create, Delete, Query, and Update)
- The “Use Feature Service instead of Lucity SOE” system setting in UI Admin must be set to TRUE
- Enable Esri’s Editor Tracking on feature classes
  - At a minimum have a last\_edited\_date field
  - Record Dates in **UTC** not Database Time!
- Enable Lucity’s Last Sync DateTime field on feature classes



## Lucity GIS Scheduled Tasks

### Limitations:

- **Merges, Splits, Renumbers, and Deletes must still be done in an ArcMap editing environment with the Lucity extension enabled in order for the Lucity inspection, construction, and work history to be properly updated.**
- Number generators, spatial relationships, and any other Lucity GIS extension functionality (as found with the ArcMap editing environment) is **not** performed when Scheduled Tasks synchronize features with Lucity.
- Features must meet the Lucity module requirements in order for them to be synchronized. For example, required fields such as the Lucity common ID must be populated with a unique value.



# Lucity GIS Scheduled Tasks

Geodatabase Configuration for Lucity

DEFAULT

- cmAddress <-> CMADDR
- cmGeneralCustom <-> CMGENINV
- cmParcel <-> CMPARCEL
- cmSolidWaste <-> CMSWASTE
  - Scheduled Task: Sync- GIS to Lucity
- cmSurveySite <-> CMSSITE
- eqEquipment <-> EFEQUIP
- eqFleet <-> EFFLEET
- eqPlant <-> EFPLANT
- fcBuilding <-> EFBLDG
- fcBuildingAsset <-> EFBASET
- fcDoor <-> EFDOOR
- fcFloor <-> EFFLOOR
- fcFloorAsset <-> EFFASET
- fcFloorSection <-> EFFLSEC
- fcFurnishing <-> EFFURN
- fcIrrigationController <-> EFICONT
- fcIrrigationNode <-> EFINODE
- fcIrrigationPipe <-> EFIPIPE
- fcIrrigationValve <-> EFIVALV
- fcRoof <-> EFROOFINV
- fcRoofAsset <-> EFRASET
- fcRoom <-> EFRROOMS
- fcRoomAsset <-> EFMASET
- fcSite <-> EFSITE
- fcSiteAsset <-> EFSASSET
- pkArt <-> PKART
- pkCourts <-> PKCOURT
- pkEquipment <-> PKEQUIP
- pkFence <-> PKFENINV
- pkField <-> PKFIELD

Scheduled Tasks

General Info

Task Type: Sync- GIS to Lucity  Disabled

Filter Options

None (process all source records)  Filtered set

Filter Clause:

Options

- Only process records modified since last run
- Last Edited DateTime Field:
- Insert record if it doesn't already exist
- Update existing record
- Delete previous inspection(s) for asset. (Only keep most recent inspection)

Scheduling Info

Units: 3 Frequency: Hours

Last run: 08/22/2014 03:10 PM  Override

Next run: 08/22/2014 06:10 PM

Process log

Time Stamp
------------

Context menu for Scheduled Task: Sync- GIS to Lucity

- Delete
- Validate Task
- Copy Task
- Run Task Now





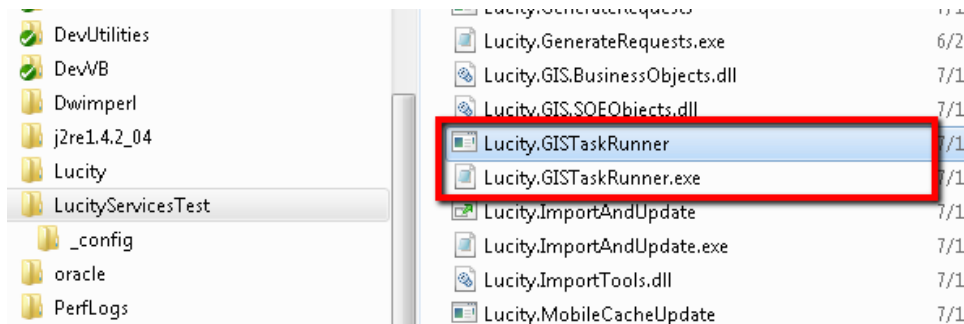
## Lucity GIS Scheduled Tasks- Validations

- Verifies at least one option has been set: insert, update, delete.
- Verifies there are feature classes linked to parent module (for inspections only)
- Validates Lucity to GIS field mappings
- Validates list of fields used to determine record uniqueness
- Tests connection to map service for feature class
- Validates feature class exists in the service
- Export Validations
  - Confirms feature class is an inspection feature class
  - Tests connection to parent feature class service(s)
  - If Use Last Sync Date option is true- verifies the Lucity module contains a Last Mod Dt field
  - If Delete option is true- verifies that the Lucity module has a Most Recent Inspection flag
  - Tests the SQL syntax used to obtain the list of Lucity records
- Import Validations
  - If Use Last Sync Date option is true- confirms that a GIS Date Time Field is defined and exists in the layer in service
  - Confirms that the Scheduled Task's Last Sync Date Time is populated
  - If feature class configuration contains the Lucity Last Sync Date field- confirm it exists in layer in service
  - Confirms that the Lucity module contains a Last Mod Dt field
  - Tests the SQL syntax used to obtain the list of GIS records from service

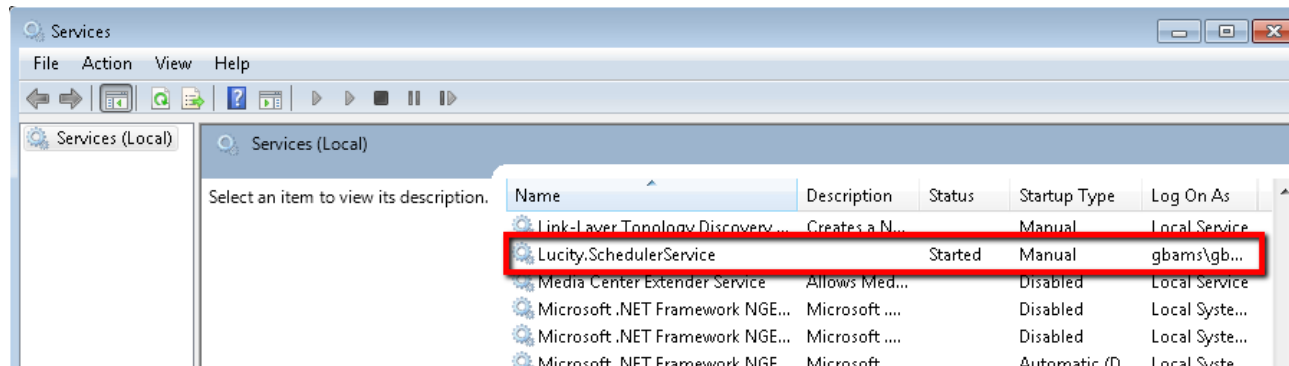


# Lucity GIS Scheduled Tasks- How it works

- A Lucity.GISTaskRunner.exe is included with the Lucity Services install.
  - This .exe is responsible for checking if any GIS Scheduled Tasks are due for processing and if so kicks off the import/export process



- Lucity.GISTaskRunner.exe runs every 1 min as part of the new Lucity Scheduler Service that is included with the Lucity Services install.





## Lucity GIS Scheduled Tasks- Troubleshooting

Records that fail to process will be marked with an error code and remain in the CMGISTASKSLOG table for 30 days at which point they are deleted.

The results of a GIS Task can be found in the Geodatabase Configuration tool under the GIS Task's process log

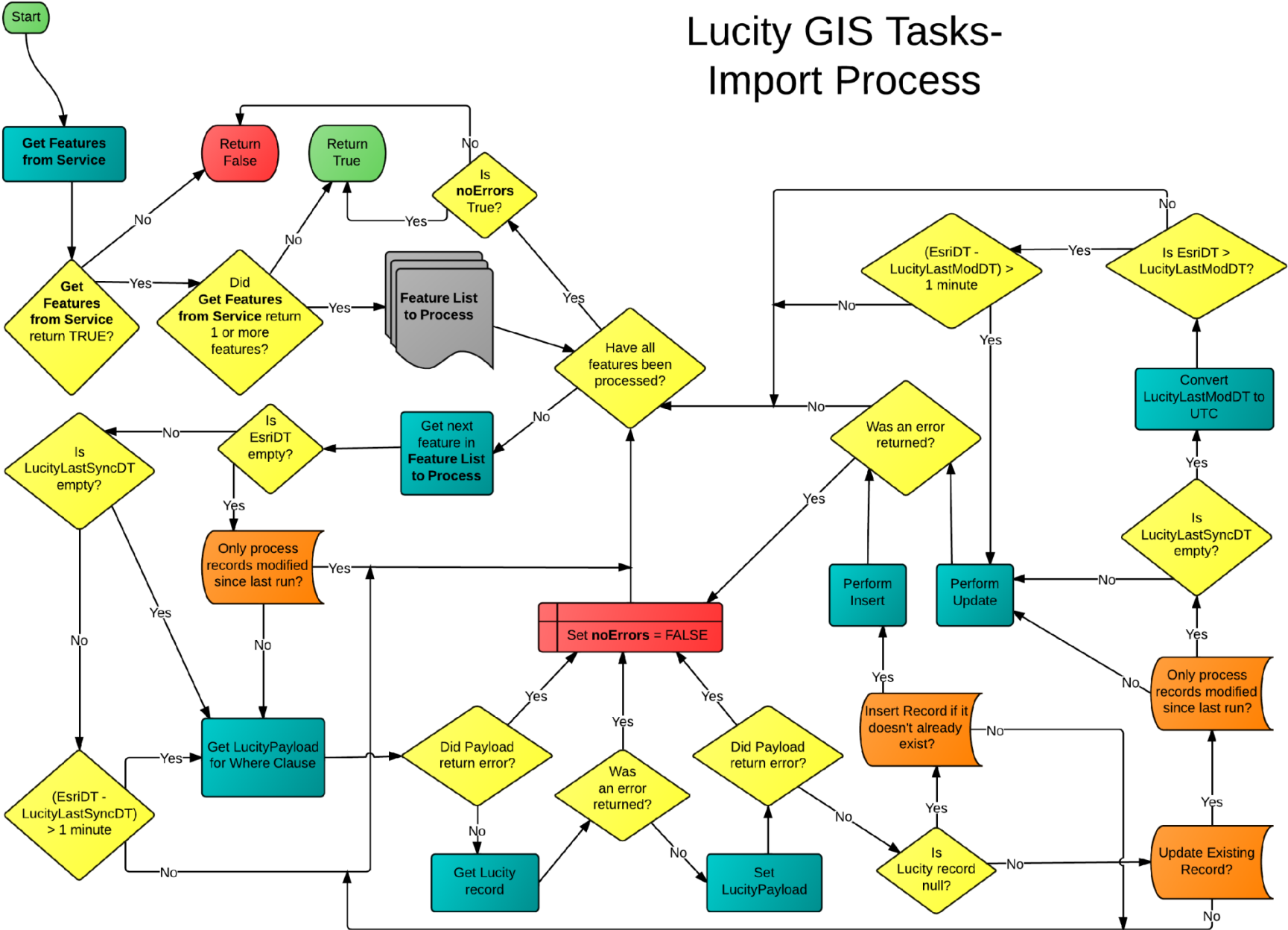
Process log

	TimeStamp	Status	Edit	Error	ErrorDescription
	7/31/2014 5:55:04 PM		0	0	Skipping Feature- Esri Last Edited DateTime
	7/31/2014 5:55:04 PM	Starting Import. Number...			
	7/31/2014 5:55:04 PM	ValidationsPassed			
	7/31/2014 5:55:04 PM		0	0	SQL used to retrieve GIS records to process
	7/31/2014 5:55:04 PM	ValidatingForImport			
	7/31/2014 5:54:59 PM	ValidatingConnectionInfo			
	7/31/2014 5:54:59 PM	ValidationBegin			
	7/31/2014 5:49:06 PM	Import Complete.			
▶	7/31/2014 5:49:06 PM		2	0	Updated existing record
	7/31/2014 5:49:04 PM		0	0	SQL used to retrieve Lucity record
	7/31/2014 5:49:04 PM		0	0	Skipping Feature- Esri Last Edited DateTime
	7/31/2014 5:49:04 PM	Starting Import. Number...			
	7/31/2014 5:49:04 PM	ValidationsPassed			
	7/31/2014 5:49:04 PM		0	0	SQL used to retrieve GIS records to process
	7/31/2014 5:49:04 PM	ValidatingForImport			
	7/31/2014 5:48:59 PM	ValidatingConnectionInfo			
	7/31/2014 5:48:58 PM	ValidationBegin			

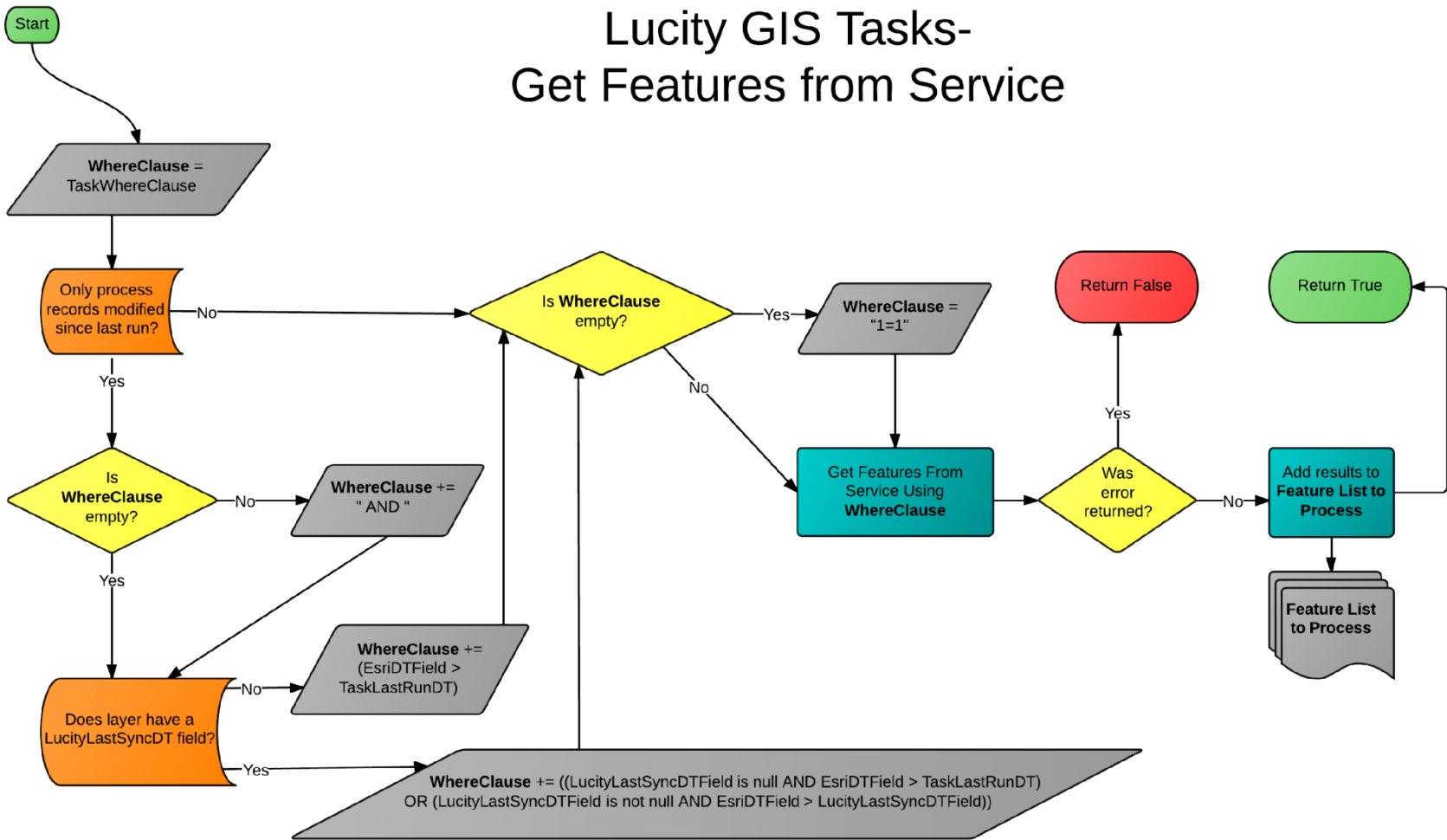
### Syntax

```
{ "ParentLinkingCriteriaForInspection": null, "Criteria":  
  [ { "FieldName": "HY_NUMBER", "FieldValue": "test0731a" }, { "AdditionalCriteria": [], "Data":  
    [ { "FieldName": "HY_OWNR_CD", "FieldValue": "2", "FieldName": "HY_TYPE_CD", "FieldValue": "4",  
      { "FieldName": "HY_INLT_SZ", "FieldValue": "2", "FieldName": "HY_COLR_CD", "FieldValue": null },  
      { "FieldName": "HY_GPS_FLG", "FieldValue": "0", "FieldName": "HY_ELEV", "FieldValue": "50",
```

# Lucidity GIS Tasks- Import Process



# Lucidity GIS Tasks- Get Features from Service



# Charting the Course



## Demo