

TRAINING GUIDE

Data Quality Tools for GIS and Lucity Spatial

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Data Quality Tools for GIS and Lucity Spatial

In this session, we'll cover the tools that can be used to ensure your GIS data is clean in regard to Lucity, as well as the tools that can check for and fix any erroneous data in the Lucity Spatial tables.

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Highlights for version 2018

- Domain Configuration tool added to ArcGIS Pro.
- QA/QC tool added to ArcGIS Pro.

Highlights for version 2018r2

- Update GIS Values tool added to ArcGIS Pro.
- Update Show in Map Flag tool added to ArcGIS Pro.

GIS – ArcGIS Pro Tools

The first part of this session covers data quality tools for your GIS data that is linked to Lucity. All these tools exist within the Management Tools group of the Lucity ArcGIS Pro add-in. Although not shown in this session, all these tools also exist within the ArcCatalog portion of the Lucity GIS Desktop extension.

In ArcGIS Pro, the Lucity Management Tools group:

Project	Мар	Insert	Ai	nalysis	View	Edi	it Imag	gery Shar	e Lu	icity Tool	5	
Relates Book	marks Sp	Module Datial Data	⇔∥ ⇒ Split	⇒∥ ¢ Merge	Renumber	× Delete	Pavement	Domain Configuration	QA/QC	Menu *	Settings	Process Log
	Tools				Edit Tool	s		Manage	ement Too	ls	Adminis	stration

QA/QC

The QA/QC tool can be used against any layer to identify potential data problems that can impact functionality between GIS and Lucity.

To use the tool, click the QA/QC button. The following dialog appears:

Lucity GIS- Quality Control	
Step 1: Select a layer in the map	
	.
(This is the data to perform the QA/QC on)	
Step 2: Specify the Common ID	
Common ID Field:	•
Perform QC Cancel	

- **Step 1: Select a layer in the map:** This is the layer that you would like to perform the QA/QC tests against. This can be any layer, regardless of whether it is linked to Lucity.
- Step 2: Specify the Common ID: This is the field in the GIS layer that either is, or will be, linked to the Common ID field in the Lucity module, and is used for two of the QA/QC tests. This field is used to determine the linkage between any given GIS feature and its corresponding Lucity record. It is required to be unique.

Once you have clicked Perform QC, the process begins. When the tool is finished running against the entire layer, the Lucity Process Log will open with all five logs (one for each test) visible:

Lucity Proces	is Log					
Log Everything	g 📃 Persist Lo	og to Disk				
Lust 04/00 0-0	2:-1-0					
Building f	form					
	QA/QC Start					
	Gathering info from	m selected options				
	Layer = [Parks] Connection = Intr	os://arcgis.mvlucity.net/serve	er/rest/services/LucitvGISDe	v/LucitvGLS_All_Editable/Fe	atureServer/2151	
	CommonID field =	[FACILITYID]			,	
Log 1 of OID	 Features that an Starting X Coordin 	e missing a Common ID nate Starting Y Coordin	ate Ending X Coordina	ate Ending Y Coordin	ate	
193	2273276.306758	53 239993.23884514	47 2273276.306758	53 239993.2388451	47	
194 Log 2 of	2240644.393372 5: Features that ha	/ 234959.6/0931/5/ ave duplicate Common IDs	2240644.3933727 234959.	.670931757		
OID	CommonID	Starting X Coordinate	Starting Y Coordinate	Ending X Coordinate	Ending Y Coordinate	
195	PARK_03 PARK_03	2244205.3349/3/5 2244662 43471128	234647.307742782 233152 362204723	2244205.33497375 2244662 43471128	234647.307742782 233152.362204723	
Log 3 of	5: Features with en	npty geometries				
0ID 197	CommonID PARK 04	Starting X Coordinate	Starting Y Coordinate	Ending X Coordinate	Ending Y Coordinate	
Log 4 of	5: Features that ha	ve duplicate geometries				
0ID 198	CommonID PARK 01	Starting X Coordinate 2240312 33858268	Starting Y Coordinate 232704 558070868	Ending X Coordinate 2240312 33858268	Ending Y Coordinate 232704 558070868	
199	PARK_02	2240312.33858268	232704.558070868	2240312.33858268	232704.558070868	
Log 5 of	5: Features with no	on-simple geometries (http://s	support.esri.com/technical-art Starting X Coordinate	ticle/00000/1/7) Ending X Coordinate	Ending Y Coordinate	
149	41 225818	4.50295275 234981.	379921258 2258184	4.50295275 234981	.379921258	
154	48 225094	1.62992126 230822.	471128605 2249833	3.69488189 230777	.33989501	
191	jcpark_013	2273016.24475066	234351.696850397	2273016.24475066	234351.696850397	
	QA/QC complete					

Note: The QA/QC Results can be exported from the Process Log by clicking the burger button (3 horizontal lines) at the top right of the Process Log >> Export.

GIS features that fail each test have the following written to the log: 1.) Esri ObjectID (OID), 2.) Common ID (except for test #1), and 3.) Beginning/Ending X/Y Coordinates.

Here's an explanation of each test:

- Features that are missing a common ID: These are features that have a null or empty value in their Common ID field. These features are unable to be found by Lucity because a non-null Common ID value is required to find a Lucity-linked feature in GIS.
- Features that have duplicate common IDs: These are features that have the same Common ID value as other features in GIS. If this Common ID value exists in Lucity, this means that all the GIS features with that Common ID are linked to the same record in Lucity, which is not a supported setup (the Common ID must be a unique, one-to-one relationship).
- **Features with empty geometries:** These are features that exist in the GIS layer's attribute table, but have no spatial information associated to them. This particularly can cause issues with editing, as editing operations attempted on empty geometry will likely fail.
- Features that have duplicate geometries: These are features that have the exact same geometry as other features within the GIS layer (features that are sitting on top of each other). This may or may not cause failures with editing, but will likely affect things like spatial relationships, etc.
- **Features with non-simple geometries:** These are features that have complex, often erroneous geometries. Esri's description: "Non-simple features may interrupt data processing and/or

produce error messages when working with them in ArcGIS". Some examples include: selfintersecting lines, discontinuous parts, null Z-values, and duplicate vertices. More information: <u>http://support.esri.com/en/technical-article/000007177</u>

Note: Although the test for non-simple geometries can be quite helpful in assessing GIS data quality, we strongly suggest utilizing Esri's geometry validation tools as well, as they provide much more depth than the Lucity QA/QC tool is capable of.

Other ArcGIS Pro Tools

The following tools do not solely exist as data quality tools, but they can be quite helpful in improving the quality of your GIS data. These include Update GIS Values, Domain Configuration, and Update Show in Map Flag.

Domain Configuration

The Domain Configuration Tool can be useful in ensuring your GIS domains (and the features in your layers that use them) are in sync with the linked Lucity picklists.

To use the tool, click the Domain Configuration button>>select "Standard Domains">>check which layer(s) to validate>>click OK. The following window appears, and information is written to the Lucity Process Log:

ity GIS- Do	main Conf	iguration											
ssues Found	d b												
	No Issues	Missing Domain	Invalid Type	No Domain values	Domain Missing Value	Lucity Missing Value	Desc Don't Match	GIS Domain Name	Feature Class	GIS Field	Lucity Field	GIS Field Type	Lucity Field Type
Manage						V		wHydrantManufacturer	Water Hydrants	MANUFACTURER	HY_MFG_CD	String	Numeric
Manage	V							AssetOwner	Water Hydrants	OWNEDBY	HY_OWNR_CD	SmallInteger	Numeric
Manage	V							AssetManager	Water Hydrants	MAINTBY	HY_MANG_CD	SmallInteger	Numeric
								Revalidate	Close				



Domains that are out of sync with Lucity will have their rows highlighted in red in the grid. Click Manage to handle the discrepancies. The following window appears:

	1		ů.					_
Resolve Domain Disc	repancies							
GIS Domain			2	Lucity Picklist				
GIS Eastura Clare	Weter Huderste			Lucity Module:	Water Hydrants			
GIS reature class	water nyurants			Look Cald Name	- IN MEC CD			
GIS Field Name:	MANUFACTURER Field Type	: String		Lucity Field Name	e: HY_MFG_CD Field Type	e: Numeric		
GIS Domain:	wHydrantManufacturer		>> Add value to Lucity >>	Lucity Picklist:	ManufacturerCode			
Code	Description		Repopulate Lucity to match GIS	Code	Description	GIS Code *Req	Restricted	
American Darling	American Darling	4		1	Wood-Matthews	Wood-Matthews		[≜
Clow Corporation	Clow Corporation			2	Waterous	Waterous		t
Corey	Corey		and Adductive to CTC and	3	US Pipe	US Pipe		t I
Dresser	Dresser		<< Add value to GIS <<	4	Unknown	Unknown		F I
Eddy	Eddy		Repopulate GIS to match Lucity	5	Traverse City	Traverse City		F
Iowa Valve	Iowa Valve		Interpopulate and to match county	6	Other	Other		
Kennedy Valve	Kennedy Valve			7	Mueller Company	Mueller Company		Ē
M&H Valve	M&H Valve			8	M&H Valve / Dresser	M&H Valve / Dres		
M&H Valve / Dre	M&H Valve / Dresser		Close	9	M&H Valve	M&H Valve		
Mueller Company	Mueller Company			10	Kennedy Valve	Kennedy Valve		
Other	Other			11	Iowa Valve	Iowa Valve		Γ
TEST2	ManufacturerTest			12	Eddy	Eddy		Γ
Traverse City	Traverse City			13	Dresser	Dresser		Γ.
6 CTC 1/-1	Apply Changes		Show current values and record count		Apply Change:	5		
Code	Description	# of Records		Current Lucity Value	Description	GIS Code	# of Records	
American Darling	American Darling	0		1	Wood-Matthews	Wood-Matthewr	0	
Clow Corporation	Clow Corporation	1		2	Waterous	Waterous	2	
Corev	Corey			3	US Pine	US Pipe	0	t
Dresser	Dresser	0		4	Unknown	Unknown	0	+
Eddy	Eddy	0		5	Traverse City	Traverse City	0	-
Iowa Valve	Iowa Valve	0		6	Other	Other	0	t
Kennedy Valve	Kennedy Valve	0		7	Mueller Company	Mueller Company	1951	t I
M&H Valve	M&H Valve	0		8	M&H Valve / Dresser	M&H Valve / Dres	0	t
M&H Valve / Dre	Mailure	0		-	M&H Value	M&H Valve	-	t
	I MAH valve / Dresser			9			U	
Mueller Company	MocH valve / Dresser	1949		10	Kennedy Valve	Kennedy Valve	0	
Mueller Company Other	MQH Valve / Dresser Mueller Company Other	1949		10 11	Kennedy Valve Iowa Valve	Kennedy Valve Iowa Valve	0	F

Values shown in red in the top two grids have no match in GIS/Lucity. You can check "Show current values and record counts" to see how many records in GIS/Lucity are using any given domain or picklist value. This helps to give an idea of what needs to be changed to get the GIS domain back in sync with the corresponding Lucity picklist, and what would be affected by the changes. It is useful to run this tool before syncing data into Lucity from GIS, as it will prevent data issues caused by mismatched picklist values.

To use the tool, make changes by adding or removing values in the top grids, and using the Add Value or Repopulate buttons. When finished, click Apply Changes for GIS and/or Lucity.

For more details about the Domain Configuration Tool, please see the **Overview of ArcGIS Pro with Lucity** session.

Notes:___

Update GIS Values

The Update GIS Values tool supports updating the Lucity Auto ID field in GIS. There are some places in Lucity GIS that will use the Lucity Auto ID before the Common ID, if there is a field for it in GIS; it is these places that require the Lucity Auto ID value to be correct.

To use the Update GIS Values tool, click Menu>>Update GIS Values. The following prompt appears, asking for a layer to update. Once a layer is selected, all the fields in that layer that can be updated from Lucity, including the field that stores the Lucity Auto ID, show up in the list box:

Lucity GIS- Update GIS Values
Select a layer and fields to update
Parks •
NAME
USER_AREA
OWNEDBY
LucityAutoID
Options
Overwrite GIS value to null if it is null in Lucity
Update:
All Records
O Currently Selected
OK Cancel

Click OK, and all selected fields in GIS will be updated with the value that is in Lucity. In the case of the Lucity Auto ID field, the correct Lucity Auto ID will be assigned to the features to update in GIS.

Notes:

Update Show in Map Flag

While Update Show in Map Flag does not modify your GIS data or schema at all, it can be very helpful in determining what records in Lucity have no matching feature in GIS, and vice versa. Normally, this field is automatically updated, but in some circumstances, it may not be, so this tool ensures that the In Map Flag field in Lucity is correct.

To use the tool, click Menu>>Update Show in Map Flag. The following prompt appears:

Go ahead and select which module you would like to update the show in map flag for. You must have all layers linked to the selected module present in the map for the process to work.

Once the process begins, it will pass a list of all Common IDs from each linked layer to Lucity. Using this list, it will determine if each Common ID has a matching record in Lucity, updating the in-map flag accordingly as it goes along.

Additionally, the process builds a list of orphans in GIS, as well as a list of orphans in Lucity, and returns the results to ArcGIS Pro to be displayed. For GIS records that aren't in Lucity, there is an option on the form to run a Force Sync on records selected in the grid:

ayer.	Common ID	Object ID	 Common ID	Auto ID	
Vater Hydrants		6400	 dskWH101	2038	
Vater Hydrants		6401	 2335	2422	
Vater Hydrants		6402	 2424	2424	
			2425	2425	
			2426	2427	
			2760	2878	
			2880	2880	
			2881	2881	
			2882	2883	
			3042	3129	
			3131	3131	
			3132	3132	
			3133	3134	
			ə1	3385	
			3434	3547	
			3549	3549	



GIS Data Quality Dashboards

The GIS Data quality dashboards are a live dashboard for a GIS Analyst or admin within your organization to show them the assets within Lucity that may have a disconnect to the Assets in GIS or that need to be edited within GIS. The two Dashboard tabs are the 'QA' dashboards and the 'Work' dashboards. These dashboards will be provided to Clients after they have received a GIS Review from a Lucity Tech Team member.

GIS QA Dashboards

The GIS QA Dashboards are created to show all assets that are within Lucity, that are not currently linked to an asset in the associated GIS Feature class. So, either the Assets within GIS were deleted and the associated Lucity record did not get updated. Or a record was created in Lucity and GIS does not have an asset created in the feature class that is associated with it. The filters for all these plugins are created using the INMAP field which is in all Lucity asset tables. These plugins look for all records that have an InMap flag value of '0'.

GIS QA		
GIS Work		
Parks	Trees/Parks (+	
	Trees Not in GIS (1)	E
	Parks Not in GIS (U) Parks Parking Not in GIS (0)	
	Park Paths Not in GIS (0)	F
	Park Structures Not in GIS (0)	
	Park Fields Not in GIS (0) Park Courts Not in GIS (0)	
	Park Landscapes Not In GIS (0)	
	Park Meters Not in GIS (0)	
	Park Pools Not in GIS (6)	
	Park Pool Appurtenances Not in GIS (0)	
	Park Playgrounds Not in GIS (0) Playground Modular Components Not in GIS (0)	
	Park Playground Equipment Not in GIS (0)	
	Park Furniture Not in GIS (0)	
	Park Fences Not in GIS (0)	
	Park Refuse Not in GIS (0)	F
	Park Irrigation Pipes Not in GIS (0)	
	Park Irrigation Nodes Not in GIS (0) Park Irrigation Controllers Not in GIS (0)	
	Park Irrigation Valves Not in GIS (0)	

Notes:_____

GIS Work Dashboards

The GIS Work dashboards are created to provide a field for end users to check to indicate when Geometry or attributes of the GIS features need to be edited by the GIS Admin.



Lucity Spatial – DataQuality.exe (DQS)

The second part of this session covers data quality tools for the Lucity Spatial tables. All these tools exist as queries within the Spatial Query Suite inside the Lucity Data Quality Tool. If you have a complete install of Lucity Desktop, the Lucity Data Quality Tool can be found in your local workstation \bin



directory or can be accessed from Start>>All Programs>>Lucity>>Admin Tools.

These queries (10 total) are all ran against the Lucity Work Spatial tables that are used by the Lucity Spatial Indexer, which include the work geometry tables for points, lines, and polygons (WKGEOMPT, WKGEOMLN, and WKGEOMPG), and the work spatial change table (WKSPATIALCHANGE).

Note: All queries in the Spatial Query Suite are currently only supported for SQL Server. Theses queries are not currently available for Oracle databases.

For more information about the Lucity Spatial Indexer, see the **Overview of Lucity Spatial** session.

Wrong Geometry Types

The three Lucity work geometry tables exist to store points, lines, or polygons. Although incredibly unusual, features of the wrong geometry type have ended up in these tables before (i.e. polygons in the points table). There are three queries to test for this:

- Non-point features in the Work Point table (Test #1).
- Non-line features in the Work Line table (Test #4).
- Non-polygon features in the Work Polygon table (Test #7).

Since this situation can cause errors in processing, these queries fall under the "Error" Group. To run any of these queries, select the row for the test in the top grid, and click Run Selected Query. A results grid will appear at the bottom of the window:

8 Data Quality for Client CLINT015	
Select a Query Suite: Spatial • There are 10 queries available for this query suite. Please select one and ht the RUN button. Or select a group in the query suite and run it.	Open Lucity Web
Test A Group Court Test Name Module Description SQL	
1 Enor 1 Non-port features in the Work Point table Work Spatial Features inde WKGEOMPT that are not of point ge appear after this selected query is an unit more end	ometry type. 'Fix Selected (Spatial)', which ineous features to their correct Work Geometry
Z Warning -1 Spatial reference discrepancies in the Work Point table Work Spatial tables and delete the records from WKGEUMP1. I In	is test can currently only run in SQLServer.
3 Error -1 Invalid geometries in the Work Point table Work Spatial	
4 Error -1 Non-line features in the Work Line table Work Spatial	
5 Waming -1 Spatial reference discrepancies in the Work Line table Work Spatial	v
6 Error -1 Invalid geometries in the Work Line table Work Spatial Select Group Queries:	Number of Tabs Open: 1
7 Error -1 Non-polygon features in the Work Polygon table Work Spatial Error (6) queries	
C - 10	
Run Selected Query Run Group Query	Fix Selected (Spatial)
Non point features in the Work Point table	
GM_ID GM_MODID GM_RECID GM_PARENTID GM_TYPE GM_DUPLICATE GEOM SRID	
▶ 147478 7 4150 4737 1 POLYGON ((226) 3419	
Cose this Tab One Row found Cose All Tabs	

All erroneous records will display in the results grid. For this query type, there is an option to fix the data. To do this, select the record in the results grid, and click Fix Selected (Spatial). The following prompt appears:



Clicking Yes will move all erroneous records to their correct geometry table and delete them from the current table. In the example in the screenshot above, this record will be copied into the work polygons table (WKGEOMPG) and deleted from the work points table (WKGEOMPT).

Spatial reference discrepancies

This set of queries tests for records in the WKGEOM tables that have a spatial reference different from what is defined in the Operational WKID field within Lucity System Settings:

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	1000	
Map Exports- Default location	\/Ict-dev-01\t/TestData\Documents	
Map Exports- Format	pdf	
Operational Data Spatial Reference WKID	3419]
Point Location Tool Work Option (XY,ADDRESS,BOTH)	вотн	Ī
Preload GIS caches to speed initial map load	FALSE	
Separator to use for Geocoding Intersections	1	

There are three queries to test for this:

- Spatial reference discrepancies in the Work Point table (Test #2).
- Spatial reference discrepancies in the Work Line table (Test #5).
- Spatial reference discrepancies in the Work Polygon table (Test #8).

These queries belong to the "Warning" group, since they may or may or may not cause issues in processing but will likely cause unexpected results. To run any of these queries, select the test in the top grid and click Run Selected Query. The results are displayed in the bottom grid:

皆 Dat	a Quality for Clie	ent CLINT015														
Selec	t a Query Suite:	Spatial		↓ The	re are 10 queries ava	ailable for this query s	uite. Plea	se select on	e and hit the RUN bu	utton. Or sele	ct a group in t	he query s	uite and run it.		Open Lucity	Web
	Test Number	▲ Group	Count	Test Name				Module		*	Description	SQL				
	1	Enne	1	Non-point fontures i	o the Mark Roint tob	le		Work Spati	4	Peatures inside WKGEUMP1 with a spatial reference (SRID) that does not match the OperationalWKID in System Settings. "This test can currently only run in SQLServer.						
Þ	2	Warning	1	Spatial reference di	screpancies in the W		Work Spati	al								
	3	Error	-1	Invalid geometries in	the Work Point tabl	e		Work Spati	al							
	4	Error	-1	Non-line features in	the Work Line table			Work Spati	al							
	5	Warning	-1	Spatial reference dis	screpancies in the W	ork Line table		Work Spati	al							Ψ.
	6	Error	-1	Invalid geometries in	the Work Line table	•		Work Spatial			Select Group	p Queries:			Number of Tabs Open: 1	
	7	Error	-1	Non-polygon feature	es in the Work Polyg	on table		Work Spati	al		Error (6) que	eries		-		
		M	1 1	Contint of common div	in in the M	lede Debrees tekis		Mad. Cart	-1							
				Run	Selected (Query					R	un G	roup Que	ry		
Spa	tial reference disc	repancies in th	e Work Poin	t table												
	GM_ID	GM_I	NODID	GM_RECID	GM_PARENTID	GM_TYPE	GM_C	UPLICATE	GEOM	SRID						
•	147479	7		4150	4737	1			POINT (2254302.	. 9143						
-							_									
			1 0													
	Jose this Tab	One Row fo	und Clos	se All Tabs												

Notes:_____

Invalid Geometries

If there are features with non-simple geometries in your GIS (see above section on the QA/QC tool), there is potential that these can be processed and copied into the work geometry tables, and cause issues down the road. SQL Server recognizes these geometries as invalid geometries.

There are three queries to test for this:

- Invalid geometries in the Work Point table (Test # 3).
- Invalid geometries in the Work Line table (Test #6).
- Invalid geometries in the Work Polygon table (Test #9).

These queries belong to the "Error" group because any process attempted on records in the Lucity Spatial tables with invalid geometry will fail. To run any of these queries, select the test in the top grid and click Run Selected Query. The results will display in the bottom grid:

📳 Data	Quality for Clie	nt CLINT015											
Selec	t a Query Suite:	Spatial		• There are 10 queries	available for this query suite. F	lease select one and hit the RUN button. Or	selec	ct a group in the query suite and run it.	Open Lucity Web				
	Test Number	Group	Count	Test Name			Description SQL						
	4	Error	-1	Non-line features in the Work Line ta	ble	Work Spatial		Features inside WKGEOMPG that have invalid geometry. "This test can currently only run in SQLServer.					
	5	Warning	-1	Spatial reference discrepancies in th	e Work Line table	Work Spatial							
	6	Error	-1	Invalid geometries in the Work Line t	able	Work Spatial							
	7	Error	-1	Non-polygon features in the Work Po	lygon table	Work Spatial	Work Spatial						
	8	Warning	-1	Snatial reference discrenancies in th	work Polygon table	Work Spatial			T				
	9	Error	1	Invalid geometries in the Work Polyg	on table	Work Spatial		Select Group Queries:	Number of Tabs Open: 1				
	10	into	-1	Spatial records that either falled proc	essing or are awaiting process	ng work spatial	-	Error (6) queries					
				Run Selected	d Query			Run Group Query					
Inva	lid geometries in th	ne Work Polyg	jon table										
	GM_ID	GM_I	MODID	GM_RECID GM_PARENT	D GM_TYPE GI	I_DUPLICATE GEOM SRID)						
	693	14		2182 1945	1	POLYGON ((0 0, 3419							
-							-						
	ose this Tab	One Row fo	und Clos	e All Tabs									

Notes:

Spatial records that failed processing/are awaiting processing

Sometimes the Spatial Indexer fails to process a record, and the geometry never gets written to the appropriate work geometry table. This shows up later when the expected geometry is missing from the results of one of the tools that uses the spatial tables. All records that fail processing remain in the WKSPATIALCHANGE table with an error message and description, while successfully processed records are moved out of the table.

To run this query, select the test in the top grid and click Run Selected Query. The results will display in the bottom grid:

													pen Lucity W	100	
Test	est ▲ Group Count Test Name Module								Description SQL						
4	Fror	-1	Non-line features in the Work Line table				fial	_	All records inside the work spatial change table (WKSPATIALCHANGE). Records stored in thi are either awaiting processing by the spatial updater to move them into the WKGEOM tables.						
5	Waming	-1	Spatial reference dis	crenancies in the Wo	rk Line table	Work Spa	Work Spatial			processing attempted on them and failed for the reason provided in the 'SPCH_SU_ERROR' and 'SPCH_SU_DESC' fielde 'Berncess Selected' which appears affective interview and will					
6	Error	-1	Invalid geometries in the Work Line table				tial		Clear out each selected record's 'SPCH_GUID' field, marking it to be reprocessed by the spatial						
7	Error	-1	Non-polygon features in the Work Polygon table			Work Spa	Work Spatial			updater. Before using this function, the errors described in the error fields should be resolved. "The test can currently only run in SQLServer.					
8	Warning	-1	Spatial reference dis	crepancies in the Wo	rk Polygon table	Work Spa	tial	=							
9	Firor	1	Invalid geometries in	the Work Polygon ta	ble	Work Spa	tial								
10	Info	4253	Spatial records that	either failed processin	g or are awaiting proc	essing Work Spa	tial		Select Group Queries:			Number of	Number of Tabs Open: 1		
								-							
			Run	Selected C	Query					Run Group	Query	Rep	process Sele	ecte	
ial records that eit															
	her failed proc	essing or are a	awaiting processing												
SPCH_ID	her failed proc	essing or are a	SPCH_LOC_ID	SPCH_LOCTYPE	SPCH_TYPE	SPCH_DATETIN	IE SPCH_ASSETID	SPCH_C/	ATINV	SPCH_ADDRESS	SPCH_X	SPCH_Y	SPCH_GUID	SPC	
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SPCH_ID 5186660 5186661 5186662 5186681 5186682 5186683 5187167 5187168	her failed proc SPCH 45082 45082 45082 45082 45082 45082 45082 45082 45082 45109	essing or are a 1_PARENTID 3 3 3 6 6 6 6 3 4	waiting processing SPCH_LOC_ID 353263 353264 353265 353275 353276 353277 353324 353334 353335	SPCH_LOCTYPE WKWOASSET WKWOASSET WKWOASSET WKWOASSET WKWOASSET WKWOASSET WKWOASSET	SPCH_TYPE INSERTUPDATE INSERTUPDATE INSERTUPDATE INSERTUPDATE INSERTUPDATE INSERTUPDATE INSERTUPDATE INSERTUPDATE	SPCH_DATETIM 7/13/2017 6.05 7/13/2017 6.05 7/13/2017 6.05 7/13/2017 6.05 7/13/2017 6.05 7/13/2017 6.05 7/13/2017 1.00 7/13/2017 1.01	E SPCH_ASSETID	SPCH_C/ 1 1 1 1 1 1 1 89 89 89	ATINV	SPCH_ADDRESS	SPCH_X	SPCH_Y	SPCH_GUID 82bedd99-af7.4 82bedd99-af7.4 82bedd99-af7.4 82bedd99-af7.4 82bedd99-af7.4 82bedd99-af7.4 f1802e61-a3d9-4 f1802e61-a3d9-4	SPC 7/13. 7/13. 7/13. 7/13. 7/13. 7/13. 7/13. 7/13. 7/13.	
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SPCH_ID 5186660 5186661 5186662 5186681 5186682 5186683 5187167 5187168 5187173 5187381	her failed proc SPCH 45082 45082 45082 45082 45082 45082 45082 45082 4509 45109 45109 45109	i_PARENTID 3 3 3 6 6 3 4 6	waiting processing SPCH_LOC_ID 353263 353264 353275 353275 353277 353374 353334 353335 353336 353336	SPCH_LOCTYPE WKWOASSET WKWOASSET WKWOASSET WKWOASSET WKWOASSET WKWOASSET WKWOASSET WKWOASSET WKWOASSET	SPCH_TYPE INSERTUPDATE INSERTUPDATE INSERTUPDATE INSERTUPDATE INSERTUPDATE INSERTUPDATE INSERTUPDATE INSERTUPDATE INSERTUPDATE	SPCH_DATETIM 7/13/2017 6.05 7/13/2017 6.05 7/13/2017 6.05 7/13/2017 6.05 7/13/2017 6.05 7/13/2017 1.00 7/13/2017 1.01 7/13/2017 1.11 7/13/2017 1.18 7/14/2017 2.41	 SPCH_ASSETID SPCH_	SPCH_C/ 1 1 1 1 1 1 1 89 89 89 89 89 120	ATINV	SPCH_ADDRESS	SPCH_X	SPCH_Y	SPCH_GUID 82bedd99-af74 82bedd99-af74 82bedd99-af74 82bedd99-af74 82bedd99-af74 82bedd99-af74 11802e61-34394 11802e61-34394 960ad28540704 377ab43-94244	SPC 7/13. 7/13. 7/13. 7/13. 7/13. 7/13. 7/13. 7/13. 7/13. 7/13. 7/13.	
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SPCH_ID 5186660 5186661 5186662 5186683 5186683 5187167 5187168 5187173 5187768 51877768 51877768 51877768 51877768	SPCH 45082 45082 45082 45082 45082 45082 45082 45093 45109 45109 45109 45109 45109 45109 45109 45109 45109 45109 45109 45109 45109 45109	essing or are a I_PARENTID 3 3 3 3 6 6 6 6 6 6 6 6 6 6 3 4 6 2	waiting processing SPCH_LOC_LD 353263 353265 353275 353276 353276 353276 353334 353334 353336 48677 48681 356878	SPCH_LOCTYPE WKWOASSET WKWOASSET WKWOASSET WKWOASSET WKWOASSET WKWOASSET WKWOASSET WKWOASSET WKREQ WKREQ WKREQ WKREQ	SPCH_TYPE INSERTUPDATE INSERTUPDATE INSERTUPDATE INSERTUPDATE INSERTUPDATE INSERTUPDATE INSERTUPDATE INSERTUPDATE INSERTUPDATE INSERTUPDATE INSERTUPDATE	SPCH_DATETIN 7/13/2017 6:05 7/13/2017 6:05 7/13/2017 6:05 7/13/2017 6:05 7/13/2017 6:05 7/13/2017 1:00 7/13/2017 1:10 7/13/2017 1:11 7/14/2017 1:50 7/12/2017 1:130	E SPCH_ASSETID E SPCH_ASSETID C C C C C C C C C C C C C C C C C C C	SPCH_C/ 1 1 1 1 1 1 1 89 89 89 120 120 22	ATINV	SPCH_ADDRESS	SPCH_X	SPCH_Y SPCH_Y	SPCH_GUID 82bedd99 wf74 82bedd99 wf74 82bedd99 wf74 82bedd99 wf74 82bedd99 wf74 82bedd99 wf74 82bedd99 wf74 f1802e61 a 349 xf74 f1802e61 a 349 xf74 960a 265 xf074 87ba 49 34244 839aa 448 a 343 77145e6f cc 664	SPC 7/13, 7/13, 7/13, 7/13, 7/13, 7/13, 7/13, 7/13, 7/13, 7/13, 7/13, 7/18, 7/18, 7/18, 7/18,	

This query returns all records from WKSPATIALCHANGE and it belongs to the "Info" query group.

Notes:_____

Records that failed processing will have the following fields populated: **SPCH_GUID**, **SPCH_SU_ERROR**, and **SPCH_SU_DESC**. Records that are awaiting processing by the Spatial Indexer will exist in the results but will not have these fields populated.

SPCH GUID	SPCH PROCDTTN	SPCH LINK1	SPCH SU ERRO	F SPCH SU DESC	
82bedd99-af7f-4	/13/2017 7:51	015b85b0-2046	ServiceIssue	No feature classes linked to [InvalidModule]	h.
82bedd99-af7f-4	/13/2017 7:51	eacdb94d-833c	Servicelssue	No feature classes linked to [InvalidModule]	H.
82bedd99-af7f-4	/13/2017 7:51	6e3ce22c-a89d	ServiceIssue	No feature classes linked to [InvalidModule]	
82bedd99-af7f-4	/13/2017 7:51	c6c6a11a-e269	ServiceIssue	No feature classes linked to [InvalidModule]	
82bedd99-af7f-4	/13/2017 7:51	b9c49261-b712	ServiceIssue	No feature classes linked to [InvalidModule]	
82bedd99-af7f-4	/13/2017 7:51	971b4c6d-ee27	ServiceIssue	No feature classes linked to [InvalidModule]	
f1802e61-a3d9-4	/13/2017 1:05	1111dev1	ServiceIssue	No feature classes linked to [WaterFlowMeterDeviceInventory]	
f1802e61-a3d9-4	/13/2017 1:05	13667	ServiceIssue	No feature classes linked to [WaterFlowMeterDeviceInventory]	
960ad265-40f0-4	/13/2017 1:20	13667	ServiceIssue	No feature classes linked to [WaterFlowMeterDeviceInventory]	
3f7fab49-9424-4	/18/2017 11:11	1071	ServiceIssue	No feature classes linked to [WaterFlushingRoutes]	
898aadd8-ad3d	/18/2017 1:54	1	ServiceIssue	No feature classes linked to [WaterFlushingRoutes]	
77145e6f-cc6d-4	/20/2017 11:30	1	ServiceIssue	No feature classes linked to [WaterPumpInventory]	
0a86e340-3697	/24/2017 6:51	1048	ServiceIssue	No feature classes linked to [StormPumpInventory]	

To fully utilize this query to resolve records that failed processing in the Spatial Indexer, follow these steps:

- Correct whatever errors show up within the SPCH_SU_ERROR and SPCH_SU_DESC fields. These are usually related to issues with the editable GIS service (feature doesn't exist in the service, layer doesn't exist in the service, the service can't be accessed for any period of time while processing is attempted, etc.).
- 2. Once these errors are corrected, select however many rows in the bottom grid that you want to reprocess, and click Reprocess Selected.

Test Number	nber A Group Count Test Name					Module		^	Description SQL						
4	Error	ror -1 Non-line features in the Work Line table				Work Spa	Work Spatial All records inside the work spatial change table (Work Spatial					(WKSPATIALCHANGE). Records stored in this table later to move them into the WKGEOM tables, or had			
5	Warning -1 Spatial reference discrepancies in the Work Line table				Work Spi	Work Spatial SPCH_SU_DESC' fields. 'Reprocess Selected', which					reason provided in th which appears after t	e 'SPCH_SU_ERROR this selected query is ra	and n will		
6 Error -1 Invalid geometries in the Work Line table					Work Spa	Work Spatial clear out each selected record's 'SPCH_GUID' field, marking it to be reprocessed by the uncidear. Before up on this function, the error described in the error field should be reprocessed by the second second sec						eprocessed by the spa	tial •This		
7 Error -1 Non-polygon features in the Work Polygon table					Work Spa	tial		updater. Derore using this runction, the errors described in the error helds should be resolved. "I test can currently only run in SQLServer.					. 1115		
Warning -1 Spatial reference discrepancies in the Work Polygon table Work Sp					itial	-									
9	Error	1	Invalid geometries in t	the Work Polygon ta	ble	Work Spa	tial	al Solution Course Courses					Number of Taba Onen: 1		
	Info 4253 Spatial records that either failed processing or are awaiting processing. Work Spatial								abs open. 1						
								÷							
			Run S	Selected C	Query					Run Grou	p Query	Rep	rocess Sele	ecte	
records that eith	er tailed proces	sing or are	awaiting processing												
SPCH_ID	SPCH_	PARENTID	SPCH_LOC_ID	SPCH_LOCTYPE	SPCH_TYPE	SPCH_DATETI	ME SPCH_ASSETID	SPCH_C	ATINV	SPCH_ADDRESS	SPCH_X	SPCH_Y	SPCH_GUID	SP	
5186660	450823		353263	WKWOASSET	INSERTUPDATE	//13/20176:05		1					82bedd99-at /t-4	7/1	
5186661	450823		353264	WKWUASSET	INSERTUPDATE	//13/2017 6:05		1		-			82bedd99-ar /1-4	//1	
5186662	450823		353265	WKWOASSET	INSERTUPDATE	7/13/2017 6:05		1					82bedd99-at /t-4	7/1	
5400004	450876		303270	WKWOASSET	INSERTOPDATE	7/13/2017 6:00		1					82bedd99-ar /1-4	7/1	
5186681	100020			WRWIIASSEL	INSERTUPDATE	//13/2017 6:05		1					82bedd99-af /1-4	7/1	
5186681 5186682	450826		353276	WIGHOACCET	INCONTUNDATO	7 (10) (20) 7 0 00								1//1	
5186681 5186682 5186683 5187167	450826 450826 451002		353276	WKWOASSET		7/13/2017 6:05		1					620e0039-87/7-4	7/*	
5186681 5186682 5186683 5187167	450826 450826 451093 451094		353276 353277 353334	WKWOASSET WKWOASSET	INSERTUPDATE	7/13/2017 6:05 7/13/2017 1:00	20347	1 89					620e0d39-877-4 f1802e61-a3d9-4	7/1	
5186681 5186682 5186683 5187167 5187168 5187168	450826 450826 451093 451094		353276 353277 353334 353335	WKWOASSET WKWOASSET WKWOASSET	INSERTUPDATE INSERTUPDATE INSERTUPDATE	7/13/2017 6:05 7/13/2017 1:00 7/13/2017 1:01	20347 13858	1 89 89					620e0039-877-4 f1802e61-a3d9-4 f1802e61-a3d9-4	7/1	
5186681 5186682 5186683 5187167 5187168 5187173 5187381	450826 450826 451093 451094 451096 48677		353276 353277 353334 353335 353336 49677	WKWOASSET WKWOASSET WKWOASSET WKWOASSET	INSERTUPDATE INSERTUPDATE INSERTUPDATE INSERTUPDATE	7/13/2017 6:05 7/13/2017 1:00 7/13/2017 1:01 7/13/2017 1:18 7/13/2017 2:41	20347 13858 13858 13858	1 89 89 89					82060039-917-4 f1802e61-a3d9-4 f1802e61-a3d9-4 960ad265-40f0-4 377ab49-9424-4	7/1: 7/1: 7/1: 7/1:	
5186681 5186682 5186683 5187167 5187168 5187168 5187173 5187381 5187553	450826 450826 451093 451094 451096 48677 48681		353276 353277 353334 353335 353336 48677 48681	WKWOASSET WKWOASSET WKWOASSET WKWOASSET WKREQ WKREQ	INSERTUPDATE INSERTUPDATE INSERTUPDATE INSERTUPDATE INSERTUPDATE	7/13/2017 6:05 7/13/2017 1:00 7/13/2017 1:01 7/13/2017 1:18 7/14/2017 2:41 7/18/2017 1:50	20347 13858 13858 1071	1 89 89 120 120					820e0d39-87.4 f1802e61-a3d9-4 f1802e61-a3d9-4 960ad265-4070-4 377ab49-9424-4 898aadd8-ad34.	7/1: 7/1: 7/1: 7/1 7/1	
5186681 5186682 5186683 5187167 5187168 5187168 5187168 5187381 5187553 5187553 5208153	450826 450826 450826 451093 451094 451096 48677 48681 453092		353276 353277 353334 353335 353336 48677 48681 356878	WKWOASSET WKWOASSET WKWOASSET WKWOASSET WKREQ WKREQ	INSERTUPDATE INSERTUPDATE INSERTUPDATE INSERTUPDATE INSERTUPDATE INSERTUPDATE	7/13/2017 6:05 7/13/2017 1:00 7/13/2017 1:01 7/13/2017 1:18 7/14/2017 2:41 7/18/2017 1:50 7/20/2017 11:20		1 89 89 89 120 120 22					82060039-877-4 f1802e61-a3d9-4 f1802e61-a3d9-4 960ad265-40f0-4 377ab49-9424-4 898aadd8-ad3d 77145e8-codd.4	7/1: 7/1: 7/1: 7/1: 7/1: 7/1:	
5186681 5186682 5186683 5187167 5187168 5187168 5187173 5187381 5187553 5209153 5209153 5209153	450826 450826 450826 451093 451094 451096 48677 48681 453092 453188		353276 353277 1 353334 1 353335 1 353336 48677 48681 356878 355479 357409	WKWOASSET WKWOASSET WKWOASSET WKREQ WKREQ WKWOASSET	INSERTUPDATE INSERTUPDATE INSERTUPDATE INSERTUPDATE INSERTUPDATE INSERTUPDATE INSERTUPDATE	7/13/2017 6:05 7/13/2017 1:00 7/13/2017 1:01 7/13/2017 1:18 7/14/2017 2:41 7/18/2017 1:50 7/20/2017 11:30	20347 13858 13858 1071 3 7971 	1 89 89 120 120 22 28					820e0d994774 f1802e61-a3d94 f1802e61-a3d94 960ad265-40704 377ab49-94244 898aadd8-ad3d 77145e81-cc6d-4 ba6c_340.3697	7/1: 7/1: 7/1: 7/1: 7/1: 7/1: 7/2: 7/2:	

3. The following prompt appears. Click Yes, and the **SPCH_GUID** field is cleared out for all the selected records, marking them to be processed again by the Spatial Indexer.



Note: The Spatial Indexer runs every 5 minutes, so you may not see results immediately when reprocessing a selected set of records. If you get stuck while troubleshooting this, please do feel free to contact Lucity Support for further assistance.

Notes:			