

HUCITY What's New in 2016

Follow Along Icons





Web



Toolkit



System Changes

- SQL Server 2005 no longer supported
- Internet Explorer 9 no longer supported.
- Windows Mobile Lucity PDA Barcode app no longer supported.
- Must use Lucity Mobile versions 2.0+ for Lucity 2016 (iOS and Android)
- PACP/MACP TV Imports must use the Lucity Import and Update tool.

System Changes

- Relative Document Pathing no longer supported; this was setup in Lucity Client Maintenance
- Field Definitions that have been customized must now be locked.
- The FieldDef.mdb database is no longer used and no method to import them from MS Access in bulk. Field definitions are now stored directly in the database.

Desktop Web

 Added More User-Defined Fields to many inventory/inspection modules. All inventory/inspection modules should have at least 60 user-defined fields.

Desktop Web

Equipment Inventory

In Equipment Parts Grid, Users can now select a record and use the Open in Another View button to jump to the related Work Material record

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			0	- 🔞 🌴	🧢 🌀 🍸 🚔 (• •	: G (
				Equipment ID	Equipment ID Text		Operating St	atus Text	Equipment Type
			P	WA-VHT-2700	Vapor Heater		Operational		WATER TREATME
					rance Costs (0) Fluids (llbacks (0)	Other Me	eter Rollbacks (0)
					-WAS-STL-95 WASHER, LC			1.00	
								1.00	

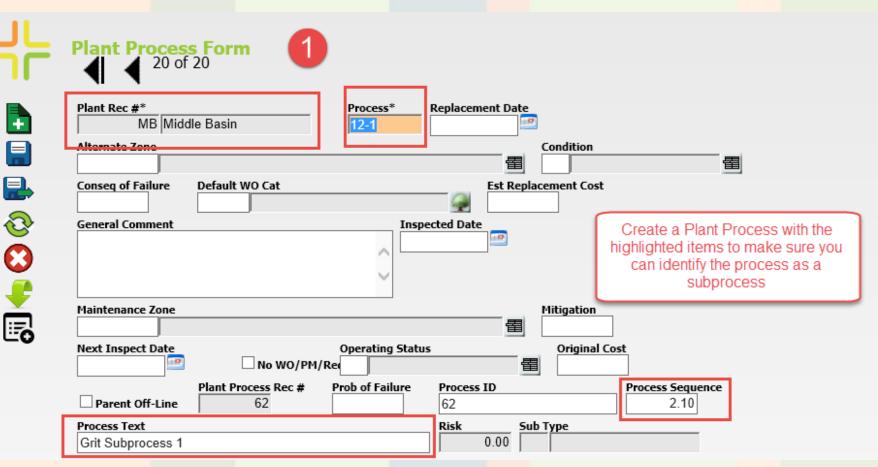
Desktop Web

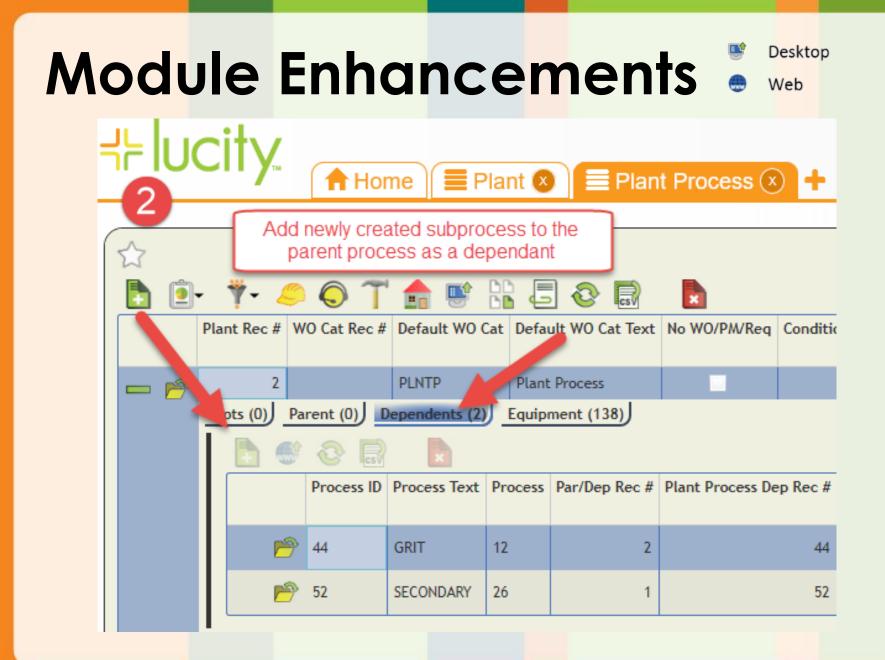
Plant Process

- Standardized module to make it an Asset Module
 - Unique ID
 - Create WO, Request, PM
 - Show in GIS
 - All other standard features

Module Enhancements Plant

In Plant Processes, Added Subprocesses to enable users to link processes with a parent-child relationship. Works like equipment dependents.





Desktop Web

<u>Sewer</u>

New Inspection Standards Compliance

- > MACP v7.01
- PACP v7.01
- LACP v7.01

Module Enhancements Server

<u>Storm</u>

New Inspection Standards Compliance
 PACP v7.01

Desktop Web

Transportation

- Added linked fields to the following assets
 - Anti-Icing Pump Houses
 - Automatic Gates
 - Camera Locations
 - > DMS
 - PDMS
 - Weather Stations
 - Sensors
 - Kiosks

Desktop **Module Enhancements** Web **Transportation-Linked Fields Added** Street Segment, Intersection, Subsegment, Supersegment IDs Traffic Controller, Cabinet, Street Pole, Street Mast Arm IDs Equipment ID ++ lucity E Street ITS Automated Gates (×) A Home Street ITS Automated Gates ITS AutoGates 📈 🗸 Comm ID Comm Device ID Automated Gate ID Cabinet Rec # Controller Rec # Equipment Rec # Intersection Rec # Mast Arm Rec # Pole Rec # Segment Rec # Subsegment Rec ሩ 🖻 AG 001 AG 002

Module Enhancements Superstance

Trees/Parks

In Park Inventory, Added grids to display related Distribution and Recycled Water Meters.
 ↓↓ Ucity

Parks 🔿

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	_			Park Name			Street Direction	Street Name	Street
		P	103	UNNAMED OPEN SPACE-1		7110	W	99TH	ST
		Park Parcels (0) Recycled Meter Device (0) Water Meter Device (0)							
	÷	P	106	TOMAHAWK RIDGE					
	п								

Desktop Module Enhancements Web Water-Distribution and Recycled In Meter Device, Now can be linked to Parks. + lucity 🗏 Parks 🛞 **Home** Q T 🛖 Alt Park ID Park Name Status Text Address Street Direction Street Name 103 99TH 🗆 🎅 UNNAMED OPEN SPACE-1 7110 I W Recycled Meter Device (0) Water Meter Device (0) Park Parcels (0) Meter Invento Water Meter Device

Water-Distribution

In AMR and Meter Devices, When AMR and Meter Devices are installed at a Meter Location, Lucity updates the devices' XY coordinates with the Meter Location record's XY coordinates.

Desktop

Web

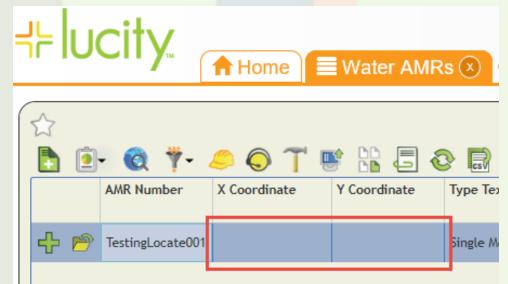
Behavior also exists in Raw and Recycled Water modules

Modu	vle Enho	anceme	ents 🍯	Desktop Web
╬ lucity	↑ Home	Iow Meter Locations 🛞		
 ▼ NP0640-00013 Water Flow Me ▲ ② 	ics)	240740 r Flow Meter Location Status Histor		
	AMR Number Serial Number TestingLocate001 Water Meter Location AMR Histor		🍍 - 🧢 🕤 T	Water AMRs (x) Water

Module Enhancements Sestor

Water-Distribution (Raw and Recycled)

In AMR and Meter Devices, when AMR and Meter Device are removed from a Meter Location, the device's XY Coordinates are reset to zero.



Desktop Web

Water-Distribution

In Direct Hydrant Flushing, Created a new module that enables agencies to enter simple Flushing records that are tracked against a single Hydrant.

Onen a Tah

Favorites		Menu	C	Modules	
Favorites		menu	<u> </u>	Modules	~
				Inspections	
				Tests	^
				 System Valves 	
			-	 Control Valves 	
				Water Nodes	
			-	 Storage Facilities 	
				 Supply Sources 	
				 Vaults and Structures 	
				 Sample Stations 	
Recent				 Pump Stations 	
Recent				Mainbreaks	
Water AMRs				- Flushing	
Water Flow Meter Locations				Flushing Routes	
Water Flow Meter Devices				History	
Park Meter Consumption Library				Direct Hydrant Flushing	
Park Meter Consumption History				Raw Water	
Water Options			+ 1	Recycled Water	
Parks			+ 1	Backflow Preventers	
Street ITS Automated Gates	<u> </u>		1	Water Loss	U
Sewer Service Lateral Permits	Ť		+	Water Sites	Ť
Cancel					

Desktop

Ă View Builder

Desktop Web

Water-Distribution

In Hydrant Inventory, Added a grid to display related Direct Hydrant Flushing

records.

View Name	Water Hydrants
Alternate View Name	
Step 1: Select a Grid	Туре
⊡. Water Hydrants	
	ts Field Ties
	ts Associations
	t Replacements
Water Hydran	t Inspections
Water Hydran	t Flow Tooto
Direct Hydran	t Flushing
water Constru	JCtion Assets
Work Reques	ts
PM/Work Ter	mplates
Water Comme	ent Grid
Water Flushin	g Routes
Water Flushin	g History

Water-Distribution

In Work Options, Added an option (In Flushing Route, Copy Hydrants, Valves or Pipes to Work Orders with Tool) that directs the Create Flushing History and WO toolkit in the Hydrant Flushing module to copy the route's Hydrants, Valves or Pipes to the new Work Order.

Desktop Web

Desktop

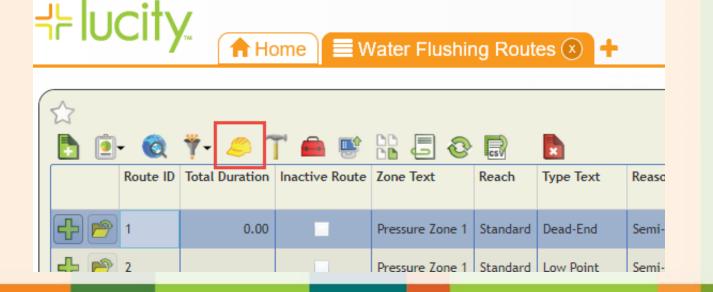
Γ							
	WATER						
	□ General						
_	Integration with Facility						
	Integration with Equipment						
	Eden Meter Integration						
	Populate Service Tap ID with Acct No and Tap No						
	Force Uniqueness for Address and Tap No for Service Tap Reco	ord 🗌					
	Update Main Break with Pipe Inventory Record Info						
-	In Flushing Route, Copy Hydrants to Work Orders with Tool						
	In Flushing Route, Copy Valves to Work Orders with Tool		ome 📃 V	Vater Flushin	g Rout	es 🗴 🕂	
	In Flushing Route, Copy Pipes to Work Orders with Tool						
	Backflow		T' 🛋 📑	1 5 8	csV		
			Create Flo	ushing History and \ ushing History and \			Rea
			0.00				-eem
	🕂 🖻 2			Pressure Zone 1	Standard	Low Point	Sem
	🕂 📂 3			Pressure Zone 2	Standard	Undirectional	Sem
							-

Water-Distribution

With these Work Options enabled, they have the same affect when the user clicks the Create Work Order button on the Flushing Route.

Desktop

Web



Module Enhancements Sestor

Water-Distribution (Raw and Recycled) In Supply Source, Now can be linked to Water Pump records.

> +⊱lucity 🛧 Home 📃 Water Supply Sources 🛞 🕂 5 Supply Number | Supply Name Building No Address Street Name Street Type St COLLEGE WSS 00001 Ridgeway Reservoir 5801 BLVD P Water Supply Sources Associations (1) Asset Text Record No Unique ID 18 PU0014 Pump

Desktop Web

<u>Work</u>

Employee Cert and Classes

Added new fields and functionality to both products making it easier to track Certifications, Classes and the costs of these classes.

Desktop Web

<u>Work</u>

PM/Template

- Grouped PM
 - Added the System ID 1 and Description fields so that the Grouped PM Asset Grid was more useful

der						
PM Groups						
PM Groups		~	Caption	PM Group	os	
or						
			Sele	cted Col	umos	
			Desc	cription	1	
	PM Groups	PM Groups PM Groups cor Columns	PM Groups PM Groups ~	PM Groups PM Groups Caption Columns Sele	PM Groups PM Groups Caption PM Group Cor Columns	PM Groups Caption PM Groups PM Groups Caption PM Groups tor Selected Columns # Group Number ed Date System ID 1

Desktop Web

<u>Work</u>

PM/Template

emplate Form

Added a WO Template checkbox to indicate that the record can be used as a template for a new Work Order. Previously, all records not marked as a Scheduled PM were treated as templates

5

PM/Template* PM/Template Text*		
Category* PMMG4 Storm WQ Management Plan	Scheduled PM	Grouped PM
Main Task	Tightly Linked PM	Grouped Assets
Problem 2	🗹 WO Template	

Desktop Web

<u>Work</u>

PM/Template

Added a PM Template checkbox to indicate that the record can be used as a template for a new PM.

Ð

R

/Work Template For 2 of 2325

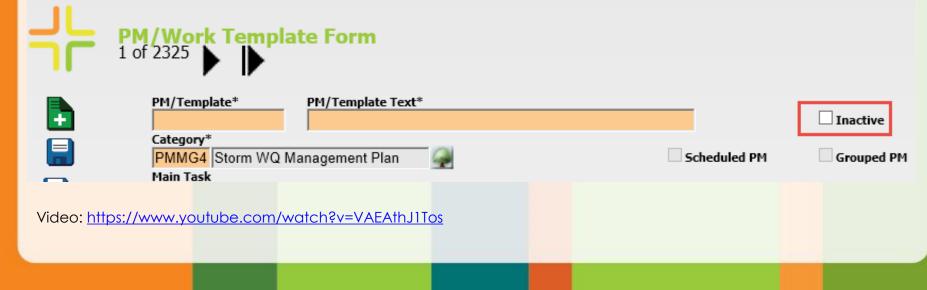
PM/Template [*] MB-VAC1005-		AY / 6001 TO	1000(
Category* USP5 Mide Main Task	dle Basin Equipment		Scheduled PM	Grouped PM
SWPT91	365 DAY / 6001 TO 10000 HOUR SERVICE	雷	Tightly Linked PM	Grouped Assets
Problem STPP00	Preventative Maintenance		W0 Template	PM Template

Desktop Web

<u>Work</u>

PM/Template

Added an Inactive checkbox to mark a record as inactive. These records do not appear in Template lists and are ignored by the PM service



PM/Work Template Form 1 of 2325 Desktop Web

<u>Work</u>

PM/Template

Added an Affected PM checkbox to indicate that the PM bases its schedule on another PM's schedule.





F 1 F			
PM/Template*	PM/Template Text*		
Category* PMMG4 Storm WQ	Management Plan	Affected PM	[
Main Task			

Desktop Web

<u>Work</u>

Work Flow Setup Modules

- Cause, Contractor, Crew, Employee, Fluid, Material, and Task Setup
 - Added Division code/type fields

┥┝	Work Cause	Setup Form				
	Cause*	Cause Text*		Division		I
	SINC70 Cause Status	Storm				I
		a	✓ Active Cause			1
2						
C						
	_		_		_	

Desktop Web

<u>Work</u>

Work Flow Setup Modules

Crew Setup

- Added an Hours per Day field. Lucity gives this field precedence over the Lead Workers or Supervisor's Hours per Day fields (in Employee Setup) or the Hours per Day option (in the Work program)
 - Also added this field in Employee Setup to establish the number of hours per day the lead workers and supervisors work

	N	10	bd	U	e	Enh	a	nce	eme	nts	*	Desktop Web
۲		U	cit	У.	↑ H	ome	Wor	k Crew S	etup 💉 🕂			
R T	☆	<u>(</u>	- 🌴	-	5	2	×					
	÷	1	Crew CNS	Hours p	per Day 8	Crew Text Construction		Supervisor	Supervisor Text	Lead		
				W 1 c	ork F of 271	mployee	e Se	tup Foi	m			
					Emplo 9999		×	Employee N Don Pinkst				Assigned Work
			.			oyee Status Full Time		 	Hours per Da	'		✓ Active

Desktop Web

<u>Work</u>

Service Work Orders

Added a Project ID field to enable users to manually link a Work Order to a Project. To do this, the Work Order's Main Task must match one of the Project Tasks

┙ <mark>┍</mark> ᠉°	rk Orders - Full Form		
•	Work Order # Status	Category* USP10 Tomahawk Creek Electrical/Instru	Project ID PRJ10 Annual Servcies 🗐
	2 New Work Order	Main Task	雷
_	3/25/2016 02:33 PM	SWPT97 ANNUAL SERVICE	f
		Work Order	

Desktop Web

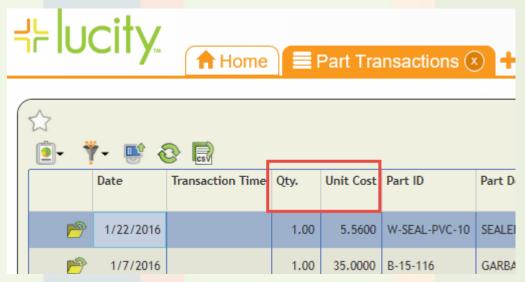
<u>Work-Project Management</u>

The Project Management modules were added to the Lucity Web's Work program in 2016. All enhancements requested during ACT 2015 have been completed in the Desktop. However, there are few modules missing tools still in the web.

Desktop Web

Parts Warehousing

For Part Transaction Logs, Lucity now tracks quantity and unit costs for each Part following every transaction in which the part is used.



Desktop Web

Parts Warehousing

For Part Orders, Added a Warehouse field to specify the Warehouse for which the Purchase Order is being made.

+⊧lucity

A Home

Desktop Web

📃 Part Purchase Orders 🛞 🗮 Vendors 🔕 🕂

🧟 Edit - Part Purchase Orders - Internet Explorer 🥔 http://lsavage.**ddns.net**/LUCITYWEB/Protected/QuickSubmit.aspx?PID=2207&isEdit=true&isChild=false&R 🎙 🕹 📑 🔮 🖬 **_**-PO Number Warehouse ID Warehouse Desc. Part Purchase Orders Form £-P 111009 OPB Facililties PO Number* Date* 3/23/2016 111009 General Created By Work Order # × 雷 Vendor ID* Q 0006 Global Industrial 雷 \odot Vendor Invoice # Warehouse ID Facililties 15-88795 OPB 圕 Status Code 1 Received 雷 5 Items Cost 0.00

Desktop Web

Parts Warehousing

 When the Warehouse is specified, a list of
 Parts display in the Add Multiple Parts tool must belong to the Vendor and be found in the Warehouse.

Desktop Module Enhancements Web + lucity + lucity Vendors 🗵 A Home I = Part Purchase Orders 🛽 Part 🕈 Home In PO, add Multiple Parts in the 23 Specify Parts to Vendor Child Grid R × Vendor ID Description Phone Number Restrict PO List 7 Warehouse ID Warehouse Desc. PO Number Global Industria 0006 1.888.978.7759 👝 P Vendor Parts (2) Facililties 111009 OPB - P Receipts (0) Parts (0) Vendor Part ID Description Part ID 殻 Parts P B-11-003 0000001 Battery C Alkaline No r Add Multiple Items B-11-004 0000002 Battery D Alkaline Add Multiple Items 23 Select All of the Parts to associate to the PO 3 100 -UOM Code Part ID Vendor Part ID Vendor Desc UOM Descripti Description Each B-11-003 BATTERY, C, ALKALINE 12/PKG 0000001 Battery C Alkaline 2 B-11-004 BATTERY, D, ALKALINE 12/PKG 0000002 Battery D Alkaline 2 Each

Desktop Web

Parts Warehousing

+⊱lucity.

In Purchase Orders, Added Account # and Project No-Acct Fields.

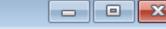
🗏 Part Purchase Orders 🛞 🕂

☆ ⊡ [๋]• * • (¥ 5 (c 🗟				
	PO Number	Account #	Proj No - Acct	Warehouse ID	Warehouse Desc.	Date	Descri
수 🖻	111009			OPB	Facililties	3/23/2016	Global

Activities Manager

Modified the interface to reflect changes in Lucity's Mobile Applications, which no longer requires activation codes. The Active User Manager now simply displays a list of devices that have an active license for Lucity Mobile.

💪 Active User Manager



1	2 AC	uve oser manag	jei				
		U	ser 🔺	Application	Activation Date/Time	IP Address	
		a		Lucity Admin	3/29/2016 8:44:17 AM	10.0.13.5	
	►	а		Lucity Mobile REST	3/29/2016 8:44:59 AM	10.1.10.10	
					Refresh	Delete	Close

System Settings

- A In the Security Tab, added the following settings.
 - Enable diag.html Server Information for debugging, that disables part of the Lucity Web diagnostics page to protect server information if an agency runs Lucity Web over the open internet
 - How to Handle Frames for (Internal or Citizen) Web Pages – to protect against the small threat of click-jacking

System Settings

A In the Security Tab, added the following settings. - Continued

Can users change Password from Mobile setting to enable administrators to control whether users can change their Lucity passwords from mobile devices

Ă System Settings

Appeara	ince Designer Automat	tion Documents	Email General	GIS 3rd Party Integration	ons GIS Des	ktop GIS			
Mobile	REST API SaaS	Security Se	ecurity - Passwords	Settings with custom in	nterface Tim	eSheet			
	Description				Value				
•	Add X-FRAME-OPTION	S to ALL Respon	se Headers (recomm	ended value is to le					
	Allows access to web se	ervices with certifi	cate errors		FALSE				
	Block SQL for the Lucity		TRUE						
	Block SQL for the Lucity	(REST API			TRUE				
	Can Users Change Pass	sword From Mobile	e		FALSE				
	Disable DOS protection				FALSE				
	Enable Aggressive Java	script Injection D	etection		FALSE				
	Enable diag.html Server	Information for de	ebugging (set to FAL	SE if Internal Web A	TRUE				
	Flag that denotes if SSL	is being used for	ChangePassword fe	ature	FALSE				
	How To Handle Frames	for Citizen Web F	ages (DENY, SAME	ORIGIN, blank)					
	How To Handle Frames	for Internal Web	Pages (DENY, SAM	EORIGIN, blank)					
	List of values that are no	ot allowed in sear	ch filters to reduce ris	k of getting hacked.	(connectstrings user_info				
	Regex for range of unic	ode characters al	lowed in SQL		[\u0000-\u007	7F]			

System Settings

A In the Security-Passwords Tab, added the following settings.

- Send an email to the user when their password changes, that automatically alerts a user when his or her password changes.
- Allow easily guessed passwords; when disabled, this prevents users from using common passwords like 'password', 'Lucity', etc.

Ă System Settings

Арр	earance	Designer Automation Documents Email General GIS 3rd Party Integrat	ions GIS De	sktop G
Мо	bile R	EST API SaaS Security Security - Passwords Settings with custom i	interface T	imeSheet
	Des	cription	Value	
►	Allow	v easily guessed passwords	FALSE	
	Days	s before password expiration to warn user	10	
	Days	s before password expiration to warn user with Email	3	
	Maxi	mum password age	99999	
	Minin	num Length For Passwords (Must be 1 or greater)	1	
	Pass	FALSE		
	Send	d an email to the user when their password changes	TRUE	

System Settings

- In Documents Tab, added the following settings.
 - Documents with file size greater than given size, are opened using file path. Default size is 500mb, which limits the size of documents displayed within Lucity. If this document is above the set limit, the system provides a link to the document, rather than displaying it.
 - Enable External Document Integration setting to let administrators integrate Lucity Web with a third-party document-storage system.

Ă System Settings

Mc	bile	RE	ST API	SaaS	Security	Sec	urity - Pa	sswords	Settings with custom	interfac	e Time	Sheet	Web F	
Арр	beara	nce	Designer	r Automatio	n Docum	ients	Email	General	GIS 3rd Party Integra	tions (GIS Deskt	op (GIS Edit In	
		Des	cription							Value				
►		Docu	iments wit	h file size <u>c</u>	preater than	given	size, are	opened u	500					
	Enable External Document Integration FAL							FALS	E					
		Error	to display	if a file upl	oad fails in t	the Cit	izen app			There	was an ei	tor up	loading the	
		List o	f docume	nt types tha	at are allow	ed to b	oe addeo	to record:	3					
		List of document types that are allowed to be uploaded by citizens							jpg.gif	.png.bmp				
		List o	f docume	nt types tha	at are not a	lowed	to be ac	lded to rec	exe,com,dll,ocx,bat,reg,tmp,d			g,tmp,dat,		
		Maxir	num size f	for uploade	d documen	t in mb	o (Citizer	1)		2				

System Settings

- Antroduced a new set of system settings for managing the Identity Server.
 - Used to identify, authenticate, and track Lucity user logins.
 - Token based security
 - Installed on the same server as Lucity Web and Lucity Mobile Server

System Settings

Added a new tab for managing the Identity Server.

Д	System	n Settings													- • ×
	Mobile Appeara			-			Settings with custom GIS 3rd Party Integra				b Performan Integration			Vork Wet	Work Zones Identity Server
		Description						Value							
	•	Number of Mir	nutes before i	re-validatin	g a token a	gainst Identit	y Server	15							
		Number of Mir	nutes until a t	oken expire	es for Mobi	e Apps		600							
		Number of Mir	nutes until a t	oken expire	es for the li	temal Web A	(pp	600							
		Secret value in	nternal web a	apps need t	to authenti	ate users		WoW							
		Secret value n	nobile apps r	need to aut	henticate u	sers		WoW							
		The name of t	he certificate	used for s	igning toke	ns on the inte	mal Identity Server	Lucityle	dentityServer						
		The name of t	he certificate	used for s	igning toke	ns on the mol	oile Identity Server	Lucityle	dentityServer						
		URL to the Ide	entity Server	for the Inte	mal Web /	pp		http://	savage.ddns	.net/Lucit	yldentitySer	ver			
		URL to the Ide	entity Server	for the Mot	bile Apps			http://	savage.ddns	.net/Lucit	yldentitySer	ver			
		Use SSL for Ir	temal Web	App Securi	ty			FALSE							
		Use SSL for M	lobile App Se	ecurity				FALSE							

System Settings

A In the Mobile tab, added a setting, Update the offline (Android or iOS) cache nightly, that directs the mobile server to cache offline data for the Lucity Android and iOS v2.0 applications every night.

Ă System Settings

Ap	opeara	ince	Designer	r Automatior	Docum	nents	Email	General	GIS 3rd Party Integrat	ions GIS	Desktop	GIS	Edit Integration	GIS Ro
Μ	lobile	RE	EST API	SaaS	Security	Secu	rity - Pa	sswords	Settings with custom i	nterface	TimeShe	et	Web Performan	ce W
		Des	cription							Value				
►		Log	device latit	tude and lor	igitude					FALSE				
		Max	Columns F	Returned						20				
		Maxir	mum numb	per of days t	o store de	vice loc	ation hi	istory		30				
		Maxir	mum recor	ds to return	per reque	st for mo	obile			100				
		Upda	te the offli	ine Android	cache nig	htly				TRUE				
		Upda	te the offli	ine iOS cad	he nightly					FALSE				
		Url fo	r the Lucit	ty Mobile Se	rver Virtua	al Direct	ory (Ext	emally acc	cessible version)	http://lsa	wage.ddns	.net/L	ucityMobileServ	er

System Settings

An the REST API tab, added a setting, Automatically push invalid request addresses to the General Location field, that allows third-party developers to instruct the Citizen Portal REST API to automatically move an invalid address to the General Location field (if empty).

🔏 System Settings

Appeara	ance Designer	Automatio	n Docum	ents Email	General	GIS 3rd Party Integrat	ions G	iIS Desktop	GI	S Edit Integration	GIS		
Mobile	REST API	SaaS	Security	Security - Pa	asswords	Settings with custom i	nterface	TimeSł	neet	Web Performant	се		
	Description						Value						
•	Allow Request	Number an	d Email que	ries to the Citi:	zen Portal I	REST API without pr	FALSE						
	Automatically p	ush invalid	request ad	dresses to the	general lo	cation field	FALSE						
	Default Public I	REST WK	ID										
	Logon to use fo	or anonymo	ous REST A	PI Access			RESTA	PILogOn					
	Maximum recor	ds to retur	n per reques	st for rest api			50						
	Url for Citizen P	ortal REST	T API (option	nal, rarely requ	uired)								
	Url for Internal I	REST API	(required fo	r internal web	app)		http://lsavage.ddns.net/LucityWebRESTAPI						
	Url for REST A	PI (optiona	l, rarely requ	uired)									
	Use an alternat	e coord sy	stem as the	Default Coord	dinate Syst	em for Public REST	FALSE						
	Use extensionle	ess URLs ((only suppor	ted in IIS7+)			FALSE						
	Use ISO 8601	UTC Date	Times instea	ad of ISO 860	1 Local Dat	teTimes For Citizen	FALSE						
	Use ISO 8601	UTC Date	Times instea	ad of ISO 860	1 local Date	eTimes For Internal	FALSE						

<u>Reports</u>

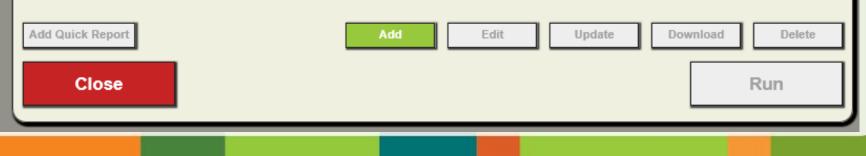
Removed Reports in Lucity Administration because it is now managed in Lucity Web

Reports For Sewer Pipes

All Reports 🗸

Manage Report Groups

^	Report Name 🞝	Report Description C
	Diversion and High Point Manholes Report	Prints all manholes that have more than one outgoing
	Elevation Report	Pipe by pipe summary of the data with elevations.
	Network-Length of Sewer by Diameter Ranges	Pipe length summary totals by pipe diameter and Flow
	Pipe Detail Report	Prints all data stored in Pipe Inventory Module.
	Pipe Inventory Image Report	Prints images and data for Pipe Inventory.
	Pipe Inventory Master with Connections	All data in the Pipe Inventory Module including Connec
	Pipe Inventory with Observation Holes	Pipe by pipe summary of the data with elevations and t
	Pipe TV History Report	Displays Date, Time, Direction, Crew, Purpose, and Ta
	Pipe Without TV Inspections	Provides a list of Pipes that have not had Television In:
	Pipes Master Report	All the data stored in the module.
	Pipes Without Air Tests	One line summary of Pipes that have not had Air Tests
	Pipes Without Mandrel Tests	One line summary of Pipes that have not had Mandrel
	Sewer Pipe Summary Report	One line summary for Sewer Pipe Inventory.
<		>



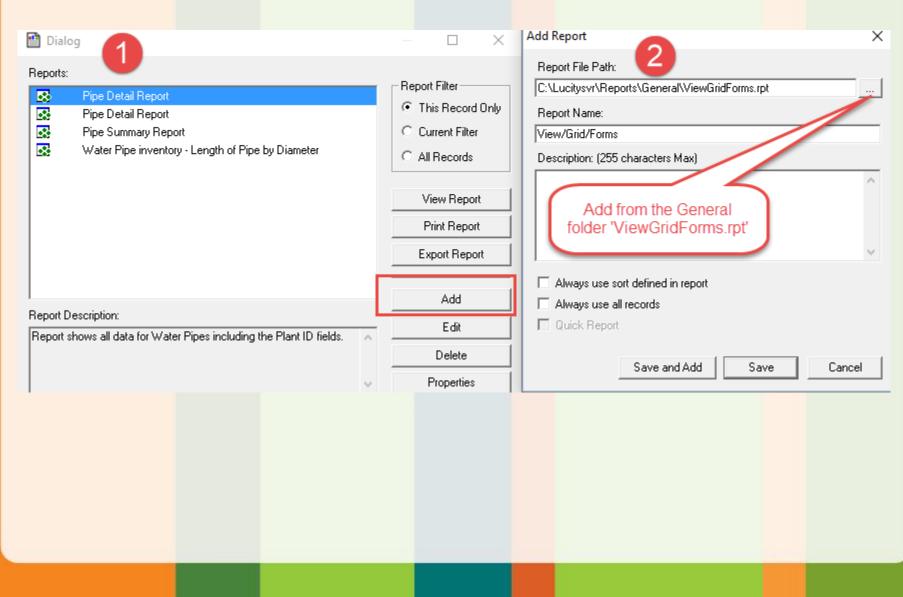
<u>Forms</u>

Modified the Editing Forms feature so that users remain logged in and can see any changes made to the Form almost immediately after saving. The feature no longer kicks users out of Lucity Web.

Ă Lucity	Administratio	n 16.0 - Cli	ent: Der	mo - User: L	SAVAGE					
System	Navigation	Forms	GIS	Security	Windows	Help				
Form Ed	itor - Work Orc	lers - Full I	Form							_
Form	Edit View	- 🔲 sAbs	- B	× 111 ×	2 💿					
•	Work Order # Status New Wo Status Date 3/29/2016	ork Order	tatus Ti)9:57 A			lem Task]		Project ID	
						Wo	rk Order			

<u>Forms</u>

Added reports that display all of the Views/Grids/Forms that a user has created. These reports can be run from any Lucity Web and Desktop module



Reports For Sewer Pipes 1

All Reports 🗸

Manage Report Groups

^	Report Name 🗜	Report Description Q
	Diversion and High Point Manholes Report	Prints all manholes that have more than one outgoing
	Elevation Report	Pipe by pipe summary of the data with elevations.
	Network-Length of Sewer by Diameter Range	Pipe length summary totals by pipe diameter and Flow
	Pipe Detail Report	Prints all data stored in Pipe Inventory Module.
	Pipe Inventory Image Report	Prints images and data for Pipe Inventory.
	Pipe Inventory Master with Connections	All data in the Pipe Inventory Module including Connec
	Pipe Inventory with Observation Holes	Pipe by pipe summary of the data with elevations and t
	Pipe TV History Report	Displays Date, Time, Direction, Crew, Purpose, and Ta
	Pipe Without TV Inspections	Provides a list of Pipes that have not had Television In:
	Pipes Master Report	All the data stored in the module.
	Pipes Without Air Tests	One line summary of Pipes that have not had Air Tests
	Pipes Without Mandrel Tests	One line summary of Pipes that have not had Mandrel
	Sewer Pipe Summary Report	One line summary for Sewer Pipe Inventory.
<		>

Add Quick Report



Update

Close

Run

Delete

Download

Subdirectory that Report will be stored in: (%CustomReportFolder%\Luke)					
J					
e					
5					

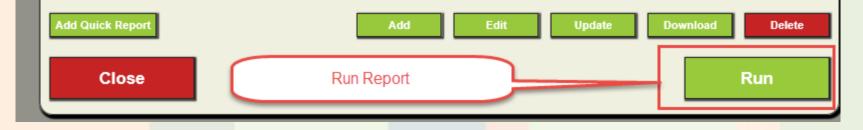
3

Reports For Sewer Pipes

All Reports 🗸

Manage Report Groups

∧ Report Name ↓ ⁸ ₂	Report Description C
Network-Length of Sewer by Diameter Ranges	Pipe length summary totals by pipe diameter and Flow
Pipe Detail Report	Prints all data stored in Pipe Inventory Module.
Pipe Inventory Image Report	Prints images and data for Pipe Inventory.
Pipe Inventory Master with Connections	All data in the Pipe Inventory Module including Connec
Pipe Inventory with Observation Holes	Pipe by pipe summary of the data with elevations and t
Pipe TV History Report	Displays Date, Time, Direction, Crew, Purpose, and Ta
Pipe Without TV Inspections	Provides a list of Pipes that have not had Television In:
Pipes Master Report	All the data stored in the module.
Pipes Without Air Tests	One line summary of Pipes that have not had Air Tests
Pipes Without Mandrel Tests	One line summary of Pipes that have not had Mandrel
Sewer Pipe Summary Report	One line summary for Sewer Pipe Inventory.
Sewer Pipes Without Selected Task	List of Pipes that have not had the selected WO Task (
View/Grid/Forms	Reports what View/Grid/Forms that a user has created
	>



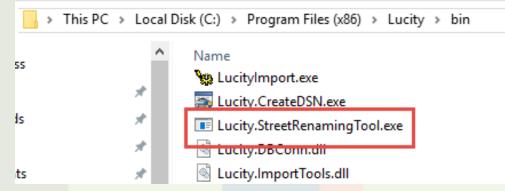
port			
) (
		1	
Lucity Web Views with Associated Form	a and Crida	3/29/2016	
Lucity web views with Associated Forms	s and onus	10:48 am	
View		n	ור חו
Grid			
Forms	Module		
Accident Data Management	Street Accident Data Management		
Accident Data Management			
Account Numbers	Account Numbers		
Account Numbers		JL	
Account Numbers Form		h CT	
Activity Library	Activity Library		
Activity Library			
Activity Library Form			
Activity Library Details		<u> </u>	
Activity Elotary Details			S
Activity Library Details Form			
	Street Auxiliary Equipment	Please wait while the processed.	document is l

Street Renaming Tool

Street Renaming Tool

This new tool lets administrators update a Street Name System-Wide to correct a misspelling or to change it to a completely new name.

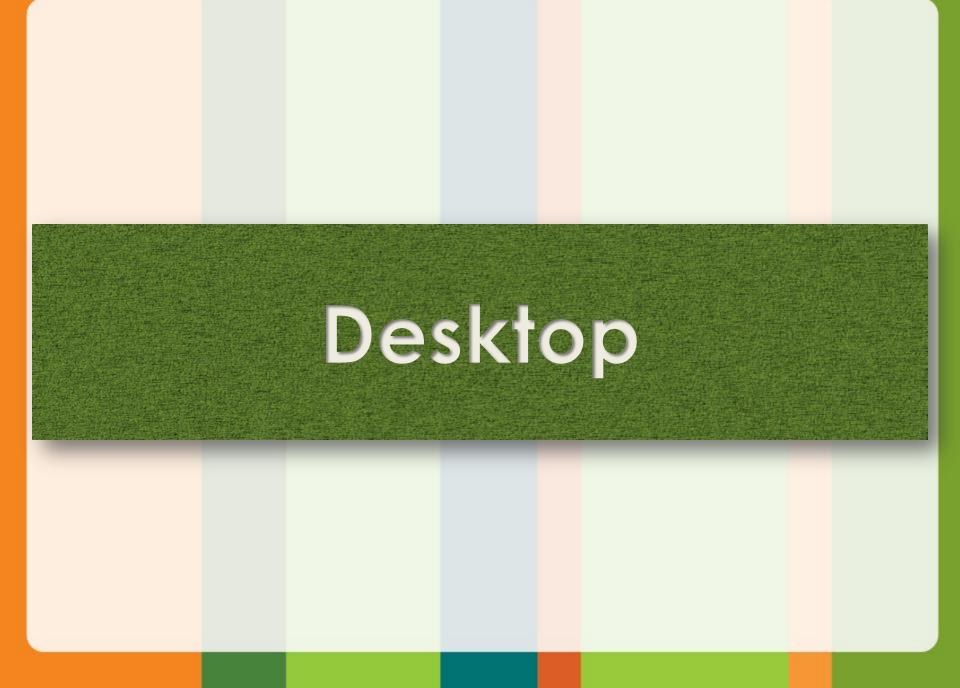
The tool is installed with Lucity Desktop and is found in the \bin folder.



Video: https://www.youtube.com/watch?v=dQxZqB3fL98

Street Renaming Tool

 Select Street Type Street Find all Streets with this name: (type at least 2 characters to search addresses) Main Stret Clear
Main Stret
Clear
and then Change Streets to this name:
Main Street
Clear
For This City: In This State:
Close
NOTE: This tool only updates streets in the Lucity database, NOT the GIS data.



Module Enhancements

Desktop Web

Create PM/Template Tool

Added the ability to create a new
Template based on an existing Template.

Dockton				.	Deskto	p
Desktop				۲	Web	
🖶 Fleet - No Filter						
▤◙◙◪▾❤▾◙▾▧◙	▶ → 	58 🔜	🛅 🔛 🕋 🚽 🖬 🧶 🗸			
Fleet ID Chev654 Chev Tahoe 4x4			Fleet Rec #		72	
Operating Status	Class		-	,		
Manufacturer			Model			
General WO/PM/Reg Travel Log Tracking Tasks Inspections Fueling Ite Create PM	ms Specs Purcha ×	ase Costs	s Tires Eval Reset Ema	il Cu	stom Custon	n 2 Comments
Based On			d to have an existing PM create PM Template fron			
Current Record C Entire Filtered Recordset		and c		- any	usser	
Select Template			Fuel Type			
PM/Template PM/Template PM/Template			Fuel Tank Size		0.00	
			Oil Type			
			Engine Oil Quantity		0.00	
			— n			
	-		Odometer			
<	>					
OK Cancel						
			Record 1 of 1		View Mr	ode Ready
						,, m /

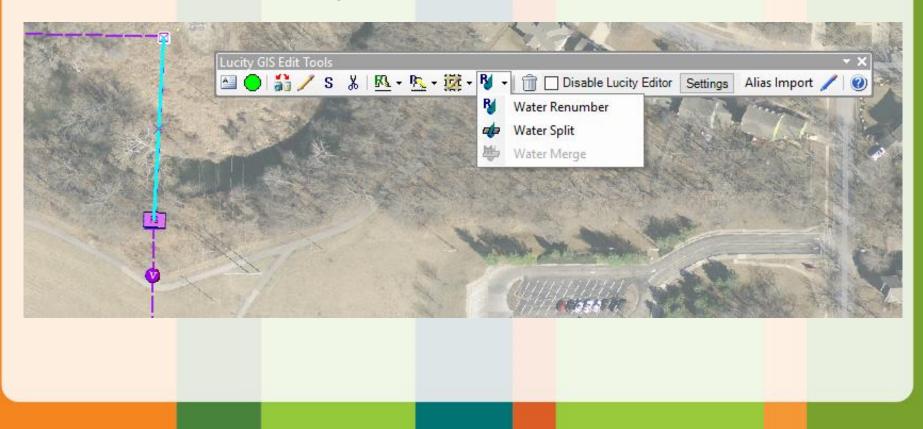


ArcGIS for Desktop 10.4 supported. ArcGIS for Server 10.4 not supported ArcGIS 10.2.2 - 10.3.1 fully supported

In ArcMap, Modified the TV Observation Tool to enable users to filter results by Severity rating.

⊣⊨ View TV Observations
Step 1: Select an inspection type:
Step 2: Specify a max inspection date: 3/29/2016
Step 3: Select a search criteria option: All Pipes/Conduits Currently Selected Pipes in Map 0 Inventory Filter Inspection Filter
Step 4: Defects to include in results Show all defects Abandoned Survey Alignment Down Alignment Left Alignment Left V
Step 5: Severity ratings to include in results Show all severity ratings Show all severity ratings Show all severity ratings Show all severity ratings A severity ratings

In ArcMap, Configured the Lucity Water Tools (split, merge, renumber) to work with raw and recycled water features.



In ArcMap, Enhanced the Show in Map tool to display Water Meter Devices, AMRs, Construction record assets, Water Flushing Route assets, and Work Permit assets.

Water Meter Device - No Filter	٢
▝▏▟▌▓▎▟▔▝▝▎▝▌▝▋▓▏▓▏▓▎▌▎▎▶▕▖▏◇▕▓ज़ऺख़▓▓▓▝▖▝▓⋞▖▖▖	
Meter Dev Rec # 3 Device Number WM00001 Meter Type 7 Nutating-Disk Attributes Location/Status AMR Calibrations Inspection Construction WO/PM/Req Custom Custom 2 Comments	
Manufacturer 9 Neptune Operating Status 1 Operational	1
Model Number T-10 Alt Park ID	
Serial Number WM00001 Associations	
Size 1.5 Asset Text A Record No Unique ID	
Meter Set	

In ArcMap, Configured the Editor Extension to:

- Warn users if the Common ID they entered is a duplicate
- Permit Default Values mapped in the Geodatabase Configuration tool to be synced into Lucity when users add or edit a record

Field Lookup

Lucity GIS ×						
	Fie	ldName	DisplayName	Field Type	MaxMask	Feature Class Field Name
The CommonID [RWPS_00001] you assigned to this feature already exists in	AD.	USER13	User 13	Double	-กกกกกกกกก	
Lucity. Do you wish to link this GIS feature to the existing Lucity feature?	AD.	USER14	User 14	String	100x	
	AD.	USER15	User 15	String	50x	
Note: selecting 'No' will clear out the CommonID you entered.	AD.	USER16	User 16	Short	nnnn	=0001
	AD.	USER17	User 17	Short	nnnn	
	AD.	USER18	User 18	Short	nnnn	
Yes No						

In ArcCatalog, Added an Integration Summary Report that displays information about the Geodatabase Configuration. This report can be run against the entire configuration or a single feature class.

Geodatabas	e Configuration for Lucity	- L X
		Connection Properties Version Setup
	Add Feature Class	Vorkspace Type: SDE
	Import Feature Classes from Schema Delete Multiple Feature Classes	Personal Geodatabase Connection Properties
	Validate Workspace	
	Integration Summary Report	File Geodatabase Connection Properties
	Domains	•
	Modify Feature Class Schema	Enterprise Geodatabase Connection Properties
	Import Feature Class Alias Names	Server: lukesavage
	Set "Undate Length (Area" Elag to True	Sonvice: adevelopmentulcoppuper

In ArcCatalog, Added tools for adding or removing Attribute Indexes. Adding indexes for the Common ID (Facility ID) and Auto ID (Lucity ID) fields makes Lucity GIS tools run faster.

 Add Feature Class	nection Properties Version Setup
Import Feature Classes from Schema Delete Multiple Feature Classes	vrkspace Type: SDE ersonal Geodatabase Connection Properties
Validate Workspace Integration Summary Report	e Geodatabase Connection Properties
	•
Modify Feature Class Schema	 Add Lucity AutolD field
Import Feature Class Alias Names	Add Lucity In DB field
Set "Update Length/Area" Flag to True	Add Modified/Synched fields
Update Feature Class Services	Add/Remove Attribute indexes
	Set field alias equal to Lucity field caption

In ArcCatalog Domain Tools

 Added an Update Work Maintenance Zone
 Domain tool to create and assign domains for the Work Maintenance Zone fields. This tool can be run against the entire configuration.

						roloion oorop	
	Add Feature	Class			_		
	Import Featu	re Classes from Schema		orksp	ace Type:	SDE	\sim
	Delete Multip	le Feature Classes		ersor	nal Geodatab	ase Connection Properties	
	Validate Work	space					
	Integration S	ummary Report		ile Ge	eodatabase (Connection Properties	
	Domains		•		Domain (Configuration	
	Modify Featu	re Class Schema	•		Update P	arent Linking Domains	
	Import Featu	re Class Alias Names			Update S	treet Name Domains	
	Set "Update l	.ength/Area" Flag to True			Update N	1UTCD Domain	
	Update Featu	re Class Services			Update T	ree Domain	
_			(Update V	/ork Category Domain	_
					Update V	/ork Maintenance Zone Dor	nain
					Update V	/ork Alternate Zone Domain	

In ArcCatalog Domain Tools

 Added an Update Work Alternate Zone
 Domain tool to create and assign domains for the Work Alternate Zone fields. This tool can be run against the entire configuration.

					Veraion oetup	
Add Feature	Class			_		
Import Feat	ure Classes from Schema		orksp	ace Type:	SDE	\sim
Delete Multi	ple Feature Classes		ersor	nal Geodatab	ase Connection Properties -	
Validate Wo	rkspace					
Integration 3	Summary Report		le Ge	eodatabase (Connection Properties	
Domains		•		Domain	Configuration	
Modify Feat	ure Class Schema	•		Update P	arent Linking Domains	
Import Feat	ure Class Alias Names			Update S	treet Name Domains	
Set "Update	Length/Area" Flag to True			Update N	IUTCD Domain	
Update Feat	ure Class Services			Update T	ree Domain	
		(Update V	Vork Category Domain	
				Update V	Vork Maintenance Zone D	omain
				Update V	Vork Alternate Zone Doma	ain

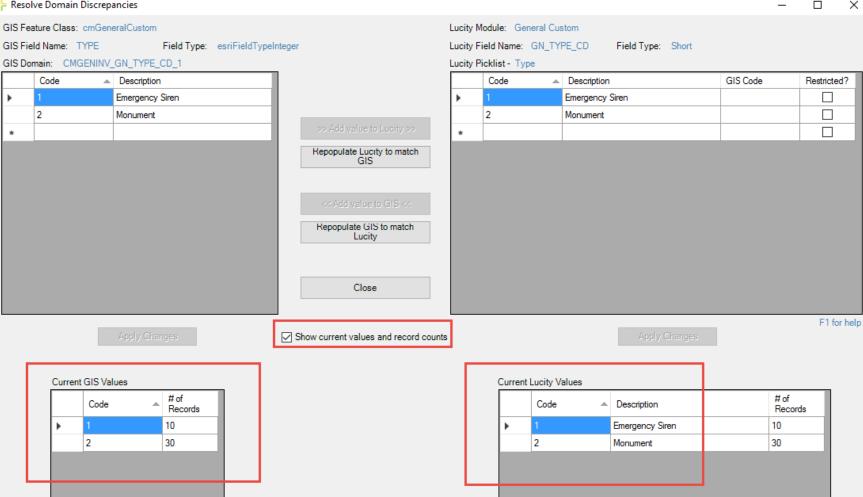
In ArcCatalog Domain Tools

 Added a Show Current Values and Record Counts option to the Domain Configuration Tool that is useful when managing domains. The option displays the number of records in GIS and Lucity using the various codes.

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+ Resolve Domain Discrepancies



Х

In ArcCatalog Scheduled Tasks

- Modified the module to support the Reverse
 Geocode spatial relationship.
- Updated the Tasks' import logic to account for the new
 GIS Default values required for the GIS-to-Lucity
 synchronization process

ľ	Scheduled Tasks
	General Info Task Type: Sync-GIS to Lucity V Disabled
	Filter Options
	None (process all source records)
	Where Clause: Select Filter
	Options ☑ Only process records modified since last run Last Edited DateTime Field: ✓
	✓ Insert record if it doesn't already exist
/	Enable number generator for imports
	Enable spatial relates for imports
	Update existing record
	Delete previous inspection(s) for asset. (Only keep most recent inspection)

≻Lucity GIS Viewer

Added measurement tools.





New GIS Integrated Modules

- Water Meter Device and AMR
 - ✓ Water Distribution
 - Recycled Water
 - ✓ Raw Water
- Plant Process

Import and Update

Import and Update

Launching the Import and Update requires users to have a new Admin > Import and Update > Run permission.

Modules View Permissions View	
Modules:	Permissions:
Admin Activations Data Quality	General - Edit Run

Video: https://www.youtube.com/watch?v=FqgJUmTo77c



Install

Lucity Desktop

 The Desktop installation now includes the Lucity Security and Client Maintenance programs. Previously, these programs were installed only with a complete install. This change does not pose a security risk, because each of these tools still require administrator credentials.

The GIS Viewer continues to be available only through the Custom install.

Install

Client Configuration

Lucity Server

 In Client Maintenance, Modified the interface to include only one database tab per client to reflect the Unified Database as well as removed the Documents tab because Lucity no longer supports relative document pathing.

Client Configuration		
Export Help		
Installed License	s Available Licenses	
nstalled Cients:	License Information Database Information	
Demo DGO		
WES	 Application Information 	
	Application Version	16
	 Database Information 	
	Database Name	Lucity
	Database Platform	SQL Server
	Database Status	OK
	Database Version	16

Install

≻Lucity Web

 Configured the system to automatically launch the Lucity Web REST API and Lucity Identity Server installations.

REST API

REST API

Status Codes

When a user is not authorized to perform an action due to permissions, the REST API now returns a 403 Forbidden code. Previously, the system returned a 401 Unauthorized code.
401 is now used only to indicate a failure to log into Lucity or an expired login session.



Security

User Permissions

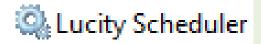
 Lucity no longer manages security using individual user permissions. Individual permissions were removed to simplify the Security program and improve overall performance of the product. Instead, users should obtain their permissions from the Groups in which they are members.

🖙 Permission Assignments									
View									
Groups									
Groups:	Users In Group(s):	Assigned Permissions:							
Administrator	a 🔨								
General User	acarroway								

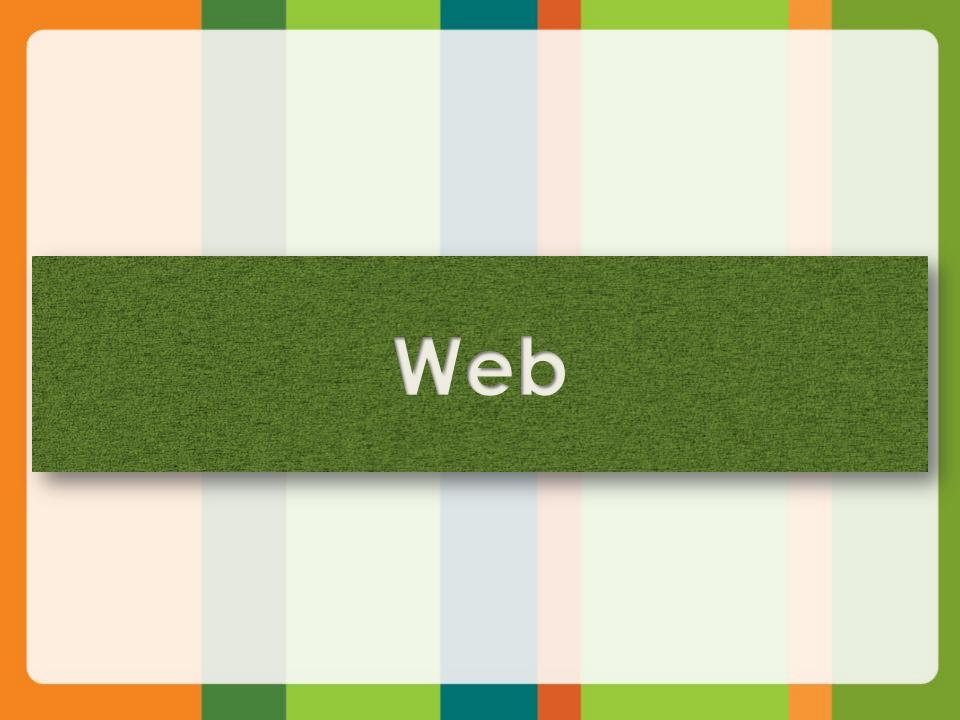


Services

Lucity Scheduler Service



- Now runs all Lucity background processes including nightly tasks and PM generation.
- No longer tracks nightly PM information in the Lucity.dbo.SYSTEMLOG table
- All of the scheduled tasks are being updated to use Lucity's BackgroundTaskUser



In version 2016, a single user can open multiple instance of Lucity Web, allowing him or her to display it on multiple monitors. Nevertheless, it is a violation of the Lucity Software License Agreement for users to share user logons.

Dashboards

Modified the Manage Shared Tabs tool to display each user's Default Rules Group.

lanage Shared Tabs

1

OShared Tabs	Us	ers:					
∧ Name	Q Js	er Name 🎝	First Name	Last Name	Department	Default Rules GroiQ	
Admin	/hc	oberg	Yulanda	Hoberg	Bridges		
Sewer	vro	ose	Whitney	Rose	Water	~	
	/tre	emper	Vito	Tremper	Facilities		
	/hig	gbee	Vernell	Higbee	Wastewater Plant		
	/ha	ames	Vernetta	Hames	Water Distribution		
	/gu	uffey	Vanda	Guffey	Storm		
	/gc	bucher	Vera	Goucher	Water Distribution		
	/gil	bson	Victoria	Gibson		Administrator	
	/ca	ardinale	Vince	Cardinale	Water Distribution		
	/ale	essi	Venetta	Alessi	Fleet		
	wh	neeler	Trey	Wheeler		Administrator	
	we	elsh	Tori	Welsh	Solid Waste	~	
	tor	na	Thomas	Tong	Sewer Collections		
	~ 6	B Page Size 50 V					
Open Selected Group Manage Selected Group Users Delete Selected Group Apply Selected Group to Selected Users							
Done							

Dashboards

- Eliminated the Dashboard reports distinction, because all reports can now be displayed on the Dashboard.
- Added a Map Plugin that can display a Lucity WebMap on the Dashboard.
 - Frames can be set to Show in Plugin Map. When frames are toggled in this manner, Data Drills, Quick Lookups, and Asset Hierarchy Tree information will be displayed within the Map Plugin found on the same Dashboard tab, instead of opening in a module view.

Video: https://www.youtube.com/watch?v=T_iR7QMHCeE



User Controls

Enhanced the Reset Password function to display related password requirements.

Change Password	
Current Password:	Password Requirements 2
Cancel View Password Requirements	 Password must have a minimum length of 1 characters. Password must be updated after 99999 days. Password is not allowed to be easily guessed which means that it cannot
	Sho contain your login ID, your name, or your email, and it cannot be all the same character, a sequence of characters (abcdefg or 54321), or a value from the banned password list.
Video: https://www.youtube.com/watch?v=B56i1C0HPT	Back

Views/Grids/Forms

In Documents, Rewrote the tool using HTML

D	ocuments						
	Documents (0) Lir						
	^ Description ↓ ⁸ / ₂ File ↓	Name File Size (KB)	Copy to WO				Q
							^
							~
	Add Document Uplo	ad Document		Open	Information	Edit	Delete
	Close						

Views/Grids/Forms

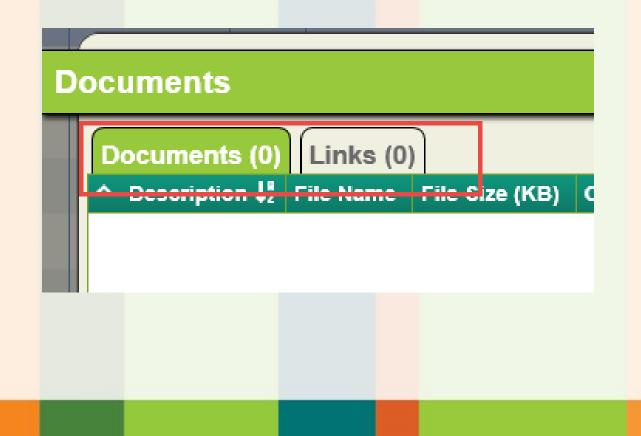
- In Documents, Added a Carry Over to Work Order option that links the document to any Work Order created from the related asset
- Added a Always Open Document Directly option that prevents the document server from opening the document.
 - Instead, the system displays a path to the document that the user can copy. This option is useful for large documents that would slow down document server.

Video: <u>https://www.youtube.com/watch?v=jk8G3T0DXVw</u> Video End User: <u>https://www.youtube.com/watch?v=v9ll5nTVW5s</u> Video Admin: <u>https://www.youtube.com/watch?v=T1rmvzy4XIM</u>

nts (a)						
Upload Document 1						
File:						
C:\Users\Isavage\Pictures\Imagery.png	Browse					
Not Allowed: exe, com, dll, ocx, bat, reg, tmp, dat, scr, bak, acl, acm, cpl, ax						
Description:						
Imagery from near Asset						
Carry Over to Work Order						
Always Open Document Directly						
Cancel	Upload					
	Open File Directly 2					
	This file has been configured to be opened directly or is unable to be opened through the Document Server. This may not work on all browsers or machines. You can use the button below to attempt to open the file.					
	Copy Path File Path: C:\LucityDocs\Water\WaterPipeInventory\1 \Imagery.png					
	Close Open File					

Views/Grids/Forms

In Documents, Separated Documents and Links onto different tabs within the tool.



Views/Grids/Forms In Documents, as mentioned, this tool is now HTML.

 The Lucity WebMap still uses Silverlight so viewing files are dependent on the default application assigned to the operating system. Please ensure that the file you are viewing on the workstation has a **default application** setup to view the file when using WebMap document controls.

Internet Explorer	×							
What do you want to do with Implementation Install Standards.docx?								
Type: Microsoft Word From: Isavage.ddns.net								
→ Open The file won't be saved automatically.								
\rightarrow Save								
\rightarrow Save as								
Cance	I							
Administrative Manual_06_10_2015.docx Properties	×							
General Security Details Previous Versions								
Administrative Manual_06_10_2015.docx								
Type of file: Microsoft Word Document (.docx)								
Opens with: Will Word 2016 Change								
Landian CAllerta January Daniarta Junita A Desirata SCD	м							

Views/Grids/Forms

- Added an External Documents Tool to enable agencies to integrate Lucity with a third-party document-management system.
 - Using this tool, an administrator can set a URL to pass values from a record in Lucity to an external document system.
 - The external document system can then pass back links to matching documents. As mentioned, this tool is now HTML.

Video: https://www.youtube.com/watch?v=D8bqYRLg1gc&index=10&list=PL6gNKzCUXa1i5FzYTKujALOwgMzDYZf-n

	W	eb									
4	l- Ιυ	city	A Ho	me 🔳 W	/ater Pip	bes 🗴	+				
		✓ (③ [†] Pipe Number	- 🧢 🤅	# of Services	from End 1	Type Text	Definition From En	id To End Type Te		xternal	Documents
	수 🖻				Pump Stati			System Valve	01775		

Filters

Rewrote the tool using HTML.

- Added the ability to use reserved words in the Filter Builder.
- Allows editing of most existing filters using the Filter Builder.

Advanced Filter: Diameter - < 6"

WTPIPE WHERE WTPIPE.PP_DIA < 6									
	Editing Existing Filter								
Select Table Name: Select A Tal Select Column Name: Select A Fie Select Reserved Word: Select Reserved	d V								
	Count Save Save As								
Close	Run								

Reports

- Rewrote the tool using HTML.
- Added the ability to manage Report Groups in Lucity Web.
- Added the ability to download a copy of a report's .rpt file.
- Simplified the process of adding a Quick Report.

Reports For Water Pipes

	Deporte M			
AILE	Reports 🗸			Manage Report Group
^	Report Name J		Report Description	(
	Pipe Detail Report		Report containing all pipe det	tails
	Pipe Detail Report		Report shows all data for Wa	
	Pipe Summary Report		Summary of pipes sorted by	
	Water Pipe inventory - Length of Pipe	e by Diameter	Length of pipe for diameter ra	anges in inches by pre
-				
<				>
Ado	d Quick Report	Add	Edit Update Do	ownload Delete
_				
	Close			Run
				T Curr

Reports

Changed the way Lucity refers to report views:

- Basic View generates the first x number of pages of the report as basic PDF.
- Advanced View generates the first page of the report and displays it on the Dashboard. Users can page through the report one page at a time, regardless of the number of pages.

Enables users to view parameters and export the report.

Basic View

Equipment Lis	ting Report By Equipment ID				5/50/2016 11:09 AM
Equipment ID	Description	Seriel #	Department	Azzet	
697		20136257	Facilities Maint		
695		20136256	Facilities Maint		
ess		20136255	Facilities Maint		
M2-000000 M2-010000	ME FACILITY ME SITE		Middle Zasin Maintenance Middle Zasin Maintenance		
	ME ADVIN UTILITIES ETC				
M2-010500 M2-010525	ME ADMIN UTILITIES ETC ME FENCING SYSTEM		Middle Zasin Maintenance Middle Zasin Maintenance		
M2-010525	ME ROADS AND PARKING SYSTEM		Middle Zasin Maintenance		
M2-020000	ME INFRASTRUCTURE		Middle Zasin Maintenance		
M2-020500	MB INFRASTRUCTURE ADMIN		Middle Zasin Maintenance	l Basi	c Reports Vi
M2-020545	ME HVAC SYSTEM		Middle Zesin HVAC	Dus	e reports vi
ME-020547	MB MECHANICAL SYSTEMS		Middle Seain Maintenance		
M2-020551	ME POTABLE WATER SYSTEM		Middle Zasin Maintenance		
ME-030000	ME PROCESSES		Middle Zasin Maintenance		
ME-030021	MB EXTRANEOUS UV		Middle Zasin Maintenance		
MZ-030100	MB INFLUENT PROCESS		Middle Zasin Maintenance		
M2-030101	M8 SEWAGE PUMPING		Middle Zasin Maintenance		
M2-030103	MB SCREENING SYSTEM		Middle Zasin Maintenance		
M2-030140	MB ELECTRICAL SYSTEM		Middle Zasin Electric		
M2-020145	ME HVAC SYSTEM		Middle Zesin HVAC		
M2-030147					

O Basic View

First 20 Pages

Linked Report

A link that opens the first 20 pages in another tab.

Advanced View

Display one page at a time, but not limited to the first 20 pages.

Work Order Reports

📄 🍜 📑 Parameters 🛛 K 🔹 🕨 🗍 100%

Main Report

Advanced Report

Open Monthly Work Order Status Report by Category

	A. Originally B. Closed C. Remaining					ened in ent Month		Total	
Category:	D, Opened	Α	в	с	D	в	с	Opened	
OB1000	HVAC	4	0	4	0	0	0	4	
OB2000	Plumbing	1	0	1	0	0	0	1	
OB2500	Custodial	3	0	3	0	0	0	3	
OB3000	Electrical	3	0	3	0	0	0	3	
OB6000	Building	5	0	5	0	0	0	5	
OB8500	Grounds Maintenance	4	0	4	0	0	0	4	
OF	Fleet Maintenance	20	0	20	3	0	3	23	
P60	Roads	14	0	14	0	0	0	14	
P80	Sidewalk	6	0	6	0	0	0	6	
PB1	Bridge Maintenance	1	0	1	0	0	0	1	
PLNTP	Plant Process	0	0	0	1	0	1	1	
PMCB	Catch Basin	9	0	9	7	0	7	16	
PMMG1	Storm WQ Commercial	1	0	1	0	0	0	1	
PMMG2	Storm WQ Construction	1	0	1	0	0	0	1	

-

WebMap

Enhanced the Trace tool to enable users to select Sewer FOG and IPT Facilities during a Sewer Pipe trace and to select Storm BMP Assets during a Storm Conduit trace.

Trace Options	23
Select Type of Trace:	
Downstream Segment 🔹	
Units (Feet or # of Segments):	
1000	
Include services in trace results	
Include FOG facilities in trace results	1
Include IPT facilities in trace results	
Clear previous trace results	
Cancel OK	

Trace Options 23 Select Type of Trace: Downstream Distance Downstream Distance Image: Constraint of Segments): 1000 Image: Constraint of Segments): Image: Constraint of Segments Image: Constraint of Segments):			
Downstream Distance ▼ Units (Feet or # of Segments): 1000 Image: The second	Trace Options	23	٦
Units (Feet or # of Segments): 1000 Include BMP assets in trace results Clear previous trace results	Select Type of Trace:		
1000 Include BMP assets in trace results Image: Clear previous trace results	Downstream Distance 🔹		
 Include BMP assets in trace results Clear previous trace results 	Units (Feet or # of Segments):		
Clear previous trace results	1000		
	Include BMP assets in trace results		
Cancel OK	🖌 Clear previous trace results		
	Cancel OK		

WebMap

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- Show in WebMap
 - Integrated the tool with Water Flushing records
 - Integrated the tool with Water Meter Devices and AMR Devices

Home \blacksquare Water Flushing Routes \otimes +

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			Route ID	Total Duration	Inactive Route	Zone Text	Reach	Type Text	Reason T
	÷	1	1	0.00		Pressure Zone 1	Standard	Dead-End	Semi-Ann
	÷	1	2			Pressure Zone 1	Standard	Low Point	Semi-Ann

New Modules for Lucity Web/Mobile

- Equipment
 - Plant Process Dependents
- >Water
 - Direct Hydrant Flushing
 Lucity

e 📄 🗏 Direct Hydrant Flushing 🛞 🕂

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	Hydrant Rec #	Hydrant Number	# of Nozzles Used	Address	Auto Number	Building N
1	4	00004		w	71	460

Video: https://www.youtube.com/watch?v=mkc7ekAFeqQ

- >Work
 - Activity Library
 - Activity Library Details
 - Daily Inspection Bacti Tests
 - Daily Inspection Construction Activities
 - Daily Inspection Contractors
 - Daily Inspection Easements
 - Daily Inspection Equipment
 - Daily Inspection Staff
 - Daily Inspections

Work-Continued

- Master Project Activities
- Master Project Activity History
- Master Project Management
- PO Details Linked to Projects
- Project Activities
- Project Activity History
- Project Budgets or Revenues
- Project Contract Approval Library
- Project Contract Approval Library Details

- Work-Continued
 - Project Contract Details
 - Project Contract Estimate Approvers
 - Project Contract Estimate Details
 - Project Contract Estimates
 - Project Contract Link to Projects
 - Project Contracts
 - Project Cost Centers
 - Project Expenditures
 - Project Grants

- Work-Continued
 - Project Invoice Details
 - Project Invoice Link to Purchase Orders
 - Project Invoice Payment Details
 - Project Invoice Payments
 - Project Invoices
 - Project Management
 - Project Purchase Order Change Orders
 - Project Purchase Order Details
 - Project Purchase Orders

- Work-Continued
 - Project Subcontractors
 - Project Tasks
 - Project Tasks Sub-Tasks
 - Work Task Setup Maintenance Zone Supervisor