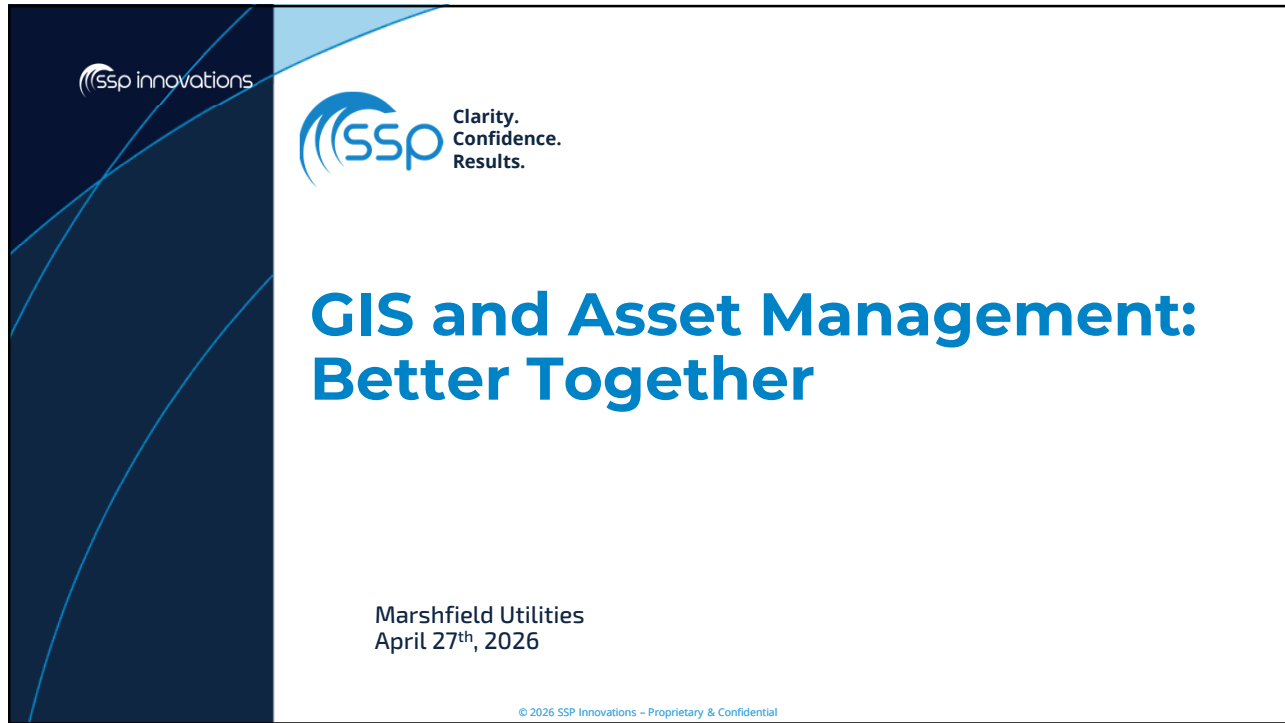


The information provided here is for informational and educational purposes and current as of the date of publication. The information is not a substitute for legal advice and does not necessarily reflect the opinion or policy position of the Municipal Association of South Carolina. Consult your attorney for advice concerning specific situations.



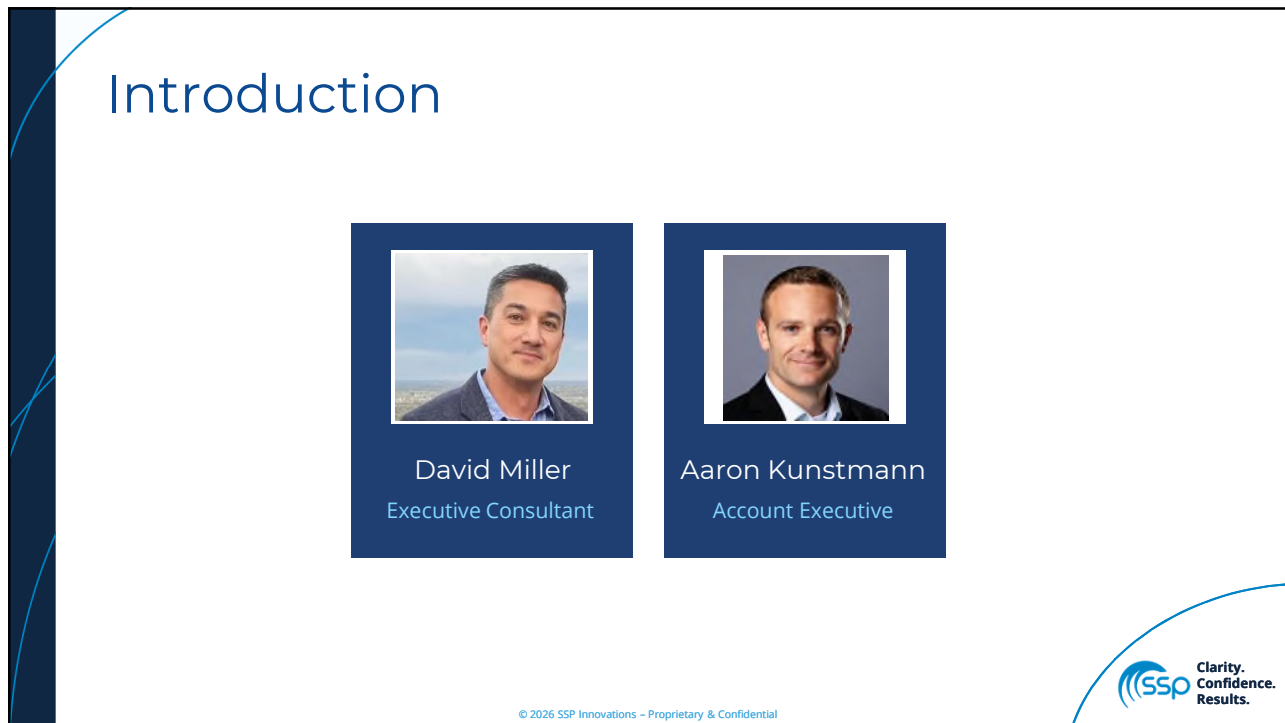
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Confidence.
Results.


GIS and Asset Management: Better Together

Marshfield Utilities
April 27th, 2026


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Introduction




David Miller
Executive Consultant



Aaron Kunstmann
Account Executive

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Company Overview

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Our Experience and Leadership



We lead the way to a better GIS for utilities.
Systems Implementation
Geospatial Data Services
Operational Consulting
Custom Solutions

- Esri IMGIS Conference 2021 Award Winner
- Esri IMGIS Conference 2022 AWARD WINNER
- Esri IMGIS Conference 2020 Award Winner
- Esri Partner Conference 2021 Award Winner System Implementation
- Esri Partner Conference 2022 Award Winner Top Influencer
- Esri IMGIS Conference 2025 Award Winner
- Utility Network Management Specialty
- Utility Network Specialty Electric Utilities Services
- Esri Partner Conference 2023 Award Winner Top Co-Sell Partner
- 2023 Infrastructure Management & GIS Conference AWARD WINNER
- ArcGIS System Ready Specialty

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Our Customers

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What is Asset Mgmt and GIS?

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What is Utility Asset Management?

From Google Gemini:

Utility asset management is the strategic, data-driven process of planning, operating, maintaining, and replacing critical infrastructure—such as power grids, water pipelines, and energy facilities—throughout its lifecycle. It ensures maximum reliability, safety, and efficiency while minimizing costs, optimizing performance, and ensuring regulatory compliance.

Key Aspects of Utility Asset Management

- **Lifecycle Management:** Covers everything from procurement and installation to maintenance, upgrades, and disposal.
- **Preventive/Predictive Maintenance:** Uses condition monitoring and data analytics to predict failures before they occur, rather than reacting to breakdowns.
- **Risk Management:** Identifies high-risk assets using data analytics and prioritization models to ensure resources are focused on critical infrastructure.
- **Technological Integration:** Utilizes Enterprise Asset Management software, GIS mapping, drone inspections, and IoT sensors to monitor real-time asset conditions.
- **Regulatory Compliance:** Ensures infrastructure meets safety and environmental standards, such as those from the EPA or ISO 55000



What Asset Management Typically Looks Like

Pole Number	Address	Height	Pole Class	Pole Material	Pole Material Number	Pole Color	Date Manufactured	Installation Work Order
300	<Null>	40	<Null>	STL - Steel	10162	Utility Grey	1/1/2022	5035672
301	W PALM CANYON & S...	40	<Null>	STL - Steel	10162	Utility Grey	1/1/2022	5035672
302	W PALM CANYON & S...	40	<Null>	STL - Steel	10162	Utility Grey	1/1/2022	
303	W PALM CANYON & S...	40	<Null>	STL - Steel	10162	Utility Grey	1/1/2022	
304	W PALM CANYON & S...	40	<Null>	STL - Steel	10162	Utility Grey	1/1/2022	
305	6500 GLADSTONE ST	40	4	Wood	<Null>	Not Painted	1/1/2020	
306	W PALM CANYON & S...	40	<Null>	STL - Steel	10162	Utility Grey	3/30/2023	
307	6601 W HOLDREGE ST	38.5	2	Wood	<Null>	<Null>	8/1/2020	
308	72876 6900 CARGER LN	38	2	Wood	<Null>	Not Painted	9/1/2020	
309	71886 2765 A ST	35	4	Wood	<Null>	Not Painted	1/1/2010	
310	48926 1634 RHWNEE ST	35	4	Wood	<Null>	Not Painted	1/1/1982	
311	59159 5120 HW 38 ST	35	4	Wood	<Null>	Not Painted	<Null>	
312	56283 4301 W ADAMS ST	35	1	Wood	<Null>	Not Painted	1/1/1988	

Type of Switching Fac.	Configuration	Manufacturer	Serial Number	Manufacture Date	Installation Date
Switch Gear	PMH-9	S and C	D59404	11/1/1996	3/31/2004
Switch Gear	PMH-11	S and C	662-18-00351	2/1/2018	7/2/2019
Switch Gear	PMH-11	S and C	161794	4/1/2016	7/10/2019
Switch Gear	PMH-11	S and C	164396	7/1/2016	7/10/2019
Switch Gear	PMH-11	Federal Pacific	J16896-3	5/1/2012	2/21/2013
Switch Gear	PMH-10	Federal Pacific	J17047-2	7/1/2012	<Null>
Switch Gear	PMH-11	S and C	662-22-00811	5/1/2022	<Null>
Switch Gear	PMH-11	S and C	662-21-00984	5/1/2021	8/17/2021
Loadbreak Junction	3PHH	<Null>	<Null>	<Null>	<Null>
Loadbreak Junction	1PHH	<Null>	<Null>	<Null>	<Null>
Switch Gear	PMH-11	S and C	662-18-02100	10/1/2018	6/30/2021
Switch Gear	PMH-11	S and C	662-19-02136	10/1/2019	6/30/2021
Switch Gear	PMH-9	S and C	662-20-01360	8/1/2020	6/30/2021

Trf Type	TRF Number	Bank KVA	Phases Present	Circuit #	Operating Voltage	Address	Installation Work Order
OH 3 Phase	84412	150	ABC	0525	12.5 / 7.2 kV	302 SUPERIOR ST	<Null>
OH 2 Phase	105665	50	AC	3064	12.5 / 7.2 kV	300 CHARLESTON ST	5034747
OH 2 Phase	83563	65	AB	1911	12.5 / 7.2 kV	1201 MANATT ST	<Null>
OH 1 Phase	88341	50	A	1911	12.5 / 7.2 kV	2727 N 12 ST	5038746
OH 3 Phase	105145	150	ABC	1911	12.5 / 7.2 kV	957 GARBER AVE	5034747
OH 3 Phase	84201	75	ABC	1911	12.5 / 7.2 kV	1151 SAUNDERS AV	<Null>
OH 3 Phase	88662	100	ABC	1911	12.5 / 7.2 kV	1130 OAK ST	<Null>
OH 3 Phase	71251	200	ABC	1911	12.5 / 7.2 kV	800 CORNHUSKER HW	<Null>
OH 2 Phase	54043	75	AC	1911	12.5 / 7.2 kV	800 CORNHUSKER HW	<Null>
OH 3 Phase	82338	200	ABC	1911	12.5 / 7.2 kV	926 OAK ST	<Null>
	84733	75	ABC	1911	12.5 / 7.2 kV	926 OAK ST	<Null>
	93259	125	AC	1911	12.5 / 7.2 kV	1325 DAVES AV	5003231

Tables. So...many...tables....



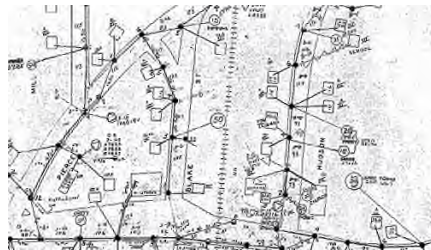
Asset Management Vendors



9

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Also Asset Management at Utilities



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What is Utility GIS?

From Google Gemini:

Utility GIS (Geographic Information System) is a specialized system used to map, model, and manage infrastructure—such as electric, water, gas, and telecommunications networks—by connecting spatial, location-based data to asset attributes. It enables utilities to visualize networks, perform spatial analysis, manage assets, simulate scenarios, and optimize operations using digital twins of infrastructure.

Key Usage Examples of Utility GIS:

- **Asset Management:** Tracking infrastructure location, condition, and maintenance history, such as tracking transformers, pipes, or valves.
- **Network Modeling & Analysis:** Simulating outages, managing water quality/leak detection, and optimizing load distribution in electrical grids.
- **Field Operations & Incident Response:** Dispatching crews, accessing maps on mobile devices for repairs, and tracking underground assets before digging.
- **Compliance & Planning:** Managing right-of-way (ROW) and permits, tracking vegetation, and using historical data for predictive planning.
- **Smart Grid Integration:** Connecting with sensors and IoT systems for real-time monitoring of utility networks

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How Assets Look in GIS



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GIS Vendors



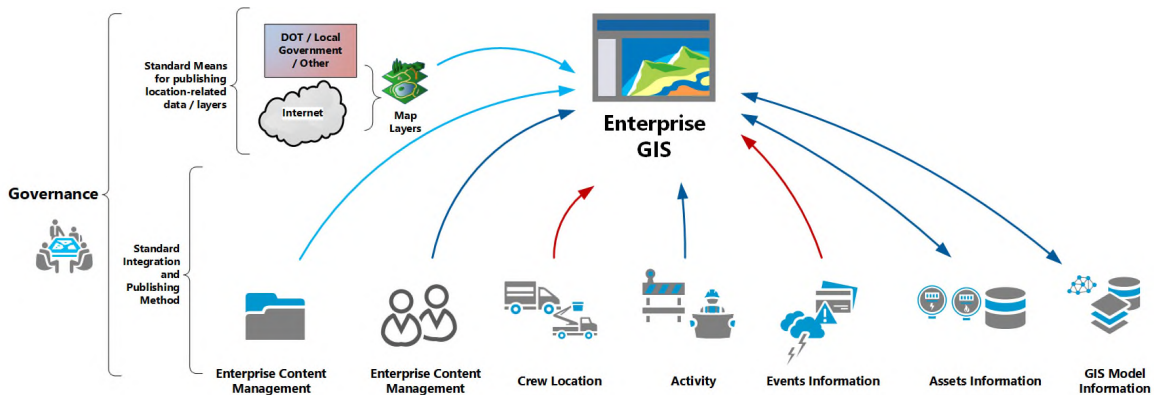
Smallworld



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What Role Can GIS Play in Asset Mgmt?



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Using GIS and Asst Mgmt Systems Together




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Scenario 1: Pole Falls Over


- Iron street light pole falls over
- No one hurt
- Call to inspect all non-wood street light poles
 - Over 23,000 poles
- GIS had Stock Code Information
 - Reduced count to 30 poles to inspect



Pole Material				9 symbol classes ***
<input checked="" type="checkbox"/>	<input type="radio"/>	<Null>	<Null>	2
<input checked="" type="checkbox"/>	<input type="radio"/>	ALU	ALU - Aluminum	1720
<input checked="" type="checkbox"/>	<input type="radio"/>	CON	CON - Concrete	443
<input checked="" type="checkbox"/>	<input type="radio"/>	FBG	FBG - Fiberglass	8062
<input checked="" type="checkbox"/>	<input type="radio"/>	IRN	IRN - Iron	78
<input checked="" type="checkbox"/>	<input type="radio"/>	LAM	LAM - Laminated	14
<input checked="" type="checkbox"/>	<input type="radio"/>	STL	STL - Steel	13607
<input checked="" type="checkbox"/>	<input type="radio"/>	UNK	UNK - Unknown	121
<input checked="" type="checkbox"/>	<input type="radio"/>	WOOD	Wood	36863

Pole Number	Height	Pole Class	Pole Material	Pole Material Number	Pole Color	Date Manufactured
<Null>	<Null>	NA	STL - Steel	18903	Dark Bronze	<Null>
<Null>	<Null>	NA	STL - Steel	18903	Dark Bronze	1/1/1900
<Null>	<Null>	NA	STL - Steel	18903	Dark Bronze	1/1/1900
<Null>	<Null>	NA	STL - Steel	18903	Dark Bronze	1/1/1900
<Null>	<Null>	NA	STL - Steel	18903	Dark Bronze	1/1/1900
<Null>	<Null>	NA	STL - Steel	18903	Dark Bronze	1/1/1900
<Null>	<Null>	NA	STL - Steel	18903	Dark Bronze	1/1/1900
<Null>	<Null>	NA	STL - Steel	18903	Dark Bronze	1/1/1900
<Null>	<Null>	NA	STL - Steel	18903	Dark Bronze	1/1/1900
<Null>	<Null>	NA	STL - Steel	18903	Dark Bronze	1/1/1900

30 of *2,000 selected | 0 of 30 highlighted | Load All

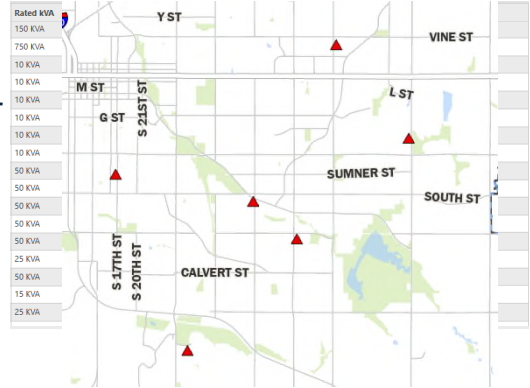


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Scenario 2: Bad Bayonet Fuse

- Padmounted transformer blows bay-o-net fuse
- Fuse is found to be one size smaller than spec
 - Came from factory that way
- Are there more?!
- GIS had all Purchase Order Data
 - Could track down others on the P.O.



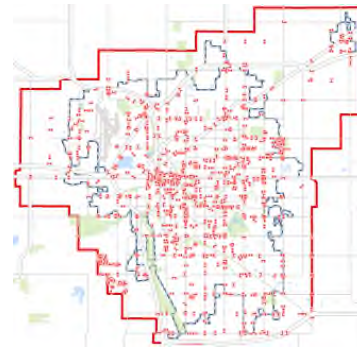
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Scenario 3: Battery Powered Fault Indicators

- New type of asset being proposed
- Battery Powered
- No initial thought to tracking them
- "How long does the battery last?"



Fault Indicator Type	Model	Manufacturer	Installation Date
12kV Battery Powered Fz	UG Load Tracker - Feeder	Power Delivery	1/27/2020
12kV Battery Powered Fz	UG Load Tracker - Feeder	Power Delivery	1/27/2020
12kV Non-Battery Power	Non-Battery Reset	Power Delivery	5/11/2023
12kV Non-Battery Power	Non-Battery Reset	Fisher Pierce	6/22/2022
12kV Battery Powered Fz	UG Load Tracker - Distribution	Power Delivery	2/2/2023
12kV Non-Battery Power	Non-Battery Reset	Fisher Pierce	<Null>
12kV Non-Battery Power	Non-Battery Reset	Fisher Pierce	<Null>
12kV Non-Battery Power	Non-Battery Reset	Fisher Pierce	<Null>
12kV Non-Battery Power	Non-Battery Reset	Fisher Pierce	6/22/2022
12kV Battery Powered Fz	UG Load Tracker - Distribution	Power Delivery	2/10/2023

12kV Battery Powered Fault Indicator	1563
12kV Non-Battery Powered Fault Indicator	12629

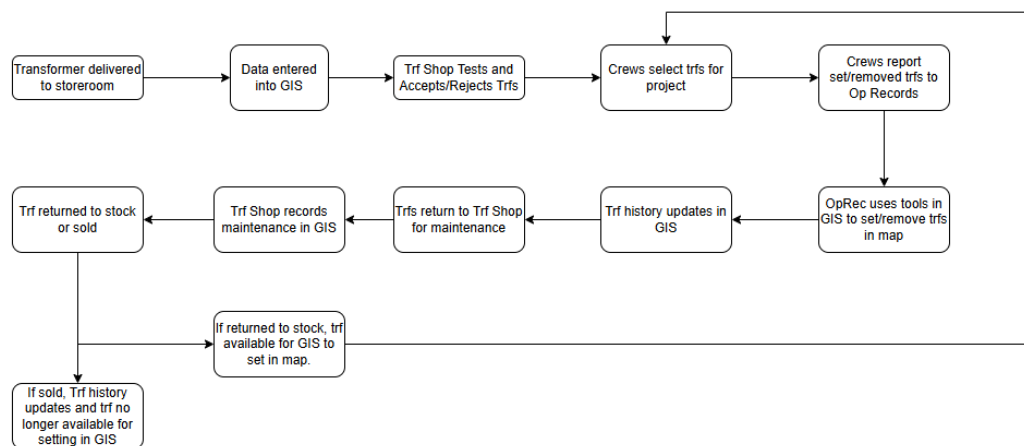
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Did you know GIS can be an Asset Management System?

Transformer Management in GIS



Transformer Unit Information

File Help
96969 find address... find serial number... Clear screen Exit

Transformer Unit Details Transformer Unit History Transformer Shop Summary Ad hoc Query Tool Data Export Tool

Transformer Number: 96969 Date Purchased: 3/28/2005

Manufacturer: KUHLMAN Number of Phases: 1

Serial Number: 450970522 KVA Rating: 50

Primary Voltage: 12470//7200 Core Loss:

2nd Primary Voltage: Conductor Loss:

Secondary Voltage: 120/240 Impedance: 1.8

Mount: Pad Mount Width: 35

Type: Padmount Height: 25

Number of Bushings: Depth: 37

Primary Bushing Material: Weight: 903

Fusing Protection: Fluid: DIL

Primary Switch: 0 Gallons: 41

Installation Date: Current Status: Set in Field

Installation WO: 500906 Drawing #: UCA-2301

Address: 3106 S 6 ST

Remarks:

PCB Information PCB Level - High Risk Reduction Priority: Suspect Based on SN

Test Date: 4/5/2011 Sample Number: 46

Test Results: 10000 Test Company: GRAY

Disposal Information Disposed with Oil Working

Date Disposed: Disposed To:

Date of last history record: 4/5/2011

Save Changes Cancel Changes

Details for transformer # 96969 are displayed.

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Transformer Unit History

File Help
96969 find address... find serial number... Clear screen Exit

Transformer Unit Details Transformer Unit History Transformer Shop Summary Ad hoc Query Tool Data Export Tool

Transformer Number: 96969

Event Date	Event	Status	Location	Information/Remark	Work Order Id	Reference Number	Removal Reason	User	Date Saved
3/17/2011	Maintenance	Set in Field		Testing					3/17/2011
3/17/2011	PCB Test	Set in Field	3106 S 6 ST	PCB PFM 1000 ...					3/17/2011
3/17/2011	Maintenance	Set in Field		test 2					3/17/2011
3/17/2011	PCB Test	Set in Field	3106 S 6 ST	PCB PFM 10000 ...					3/17/2011
3/17/2011	Status Change	Return Area	3106 S 6 ST	Status changed ...					3/17/2011
3/17/2011	Status Change	Set in Field	3106 S 6 ST	Status changed ...					3/17/2011
3/17/2011	Status Change	Return Area	3106 S 6 ST	Status changed ...					3/17/2011
3/23/2011	Maintenance	Set in Field		Fixed bushing				dmiller	3/25/2011
4/5/2011	PCB Test	Set in Field	3106 S 6 ST	PCB PFM 10000 ...				dmiller	4/5/2011

9 history record(s) displayed.

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Setting Transformers in GIS

Transformer units related to this bank:

Select	Unit #	Rated KVA
<input type="checkbox"/>		

Number of transformers expected: 1

Attributes: Object ID

Assign Transformer Units

You may select up to 1 unit(s).

Select	Unit #	Rated KVA	Mount	Status
<input type="checkbox"/>	75988	50	Pad Mount	Mapping Hold
<input type="checkbox"/>	75988	25	Pad Mount	Mapping Hold
<input type="checkbox"/>	77488	15	Pole Mount	In Stock
<input type="checkbox"/>	77489	15	Pole Mount	In Stock
<input type="checkbox"/>	77490	15	Pole Mount	In Stock
<input type="checkbox"/>	77491	15	Pole Mount	In Stock
<input type="checkbox"/>	77500	25	Pad Mount	In Stock
<input type="checkbox"/>	77520	25	Pole Mount	In Stock
<input type="checkbox"/>	77526	25	Pole Mount	In Stock

Number of available transformer units: 35

Unit Properties

Enter the following values for the new transformer unit:

Stage:

Secondary Voltage:

Type:

Primary Bushings:

Fusing Protection:

Primary Switches:

Workorder Id:

Reference Drawing:

Installation Date:



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Removing Transformers in GIS

Set Status for 77488

Choose the new status for transformer unit #77488 or click CANCEL to abort changes to this transformer.

Return Area

Removal Date:

Removal W/O#:

Removal Drawing #:

Reason:

Mapping hold (for redraw use only)

Oopel Un-set this transformer and put back in stock

Transformer Unit History

Unit #	Status	Date of Change	Event	Information	Work Order #	Reference #	Reason for Removal	Location	Last User
77488	Set in Field	4/8/2011	Status Change	Added to bank unknown at 2620 FAIRFIELD ST		-999		2620 FAIRFIELD ST	dmiller
77488		6/17/1996	Status Change	PCB PPM -2 ,tested by T&R					FRSconv
77488	Return Area		Status Change	removal	12326	UC-D-0581		2433 WOODSCREST AV	FRSconv
77488	Set in Field		Status Change	set in field				2433 WOODSCREST AV	FRSconv



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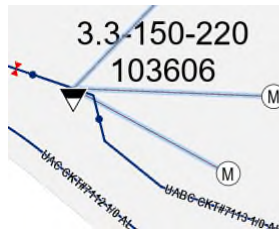
Key Transformer Data in GIS

Conductor Loss	Conductor Losses of the unit
Core Loss	Core winding losses of the unit
Impedance	Impedance of the windings

PCB Information (Maintained by the Environmental Group and Trf Shop):

Data Field	Description
PCB Sample Number	Identifier of the latest PCB sample
PCB PPM	Parts Per Million of PCB oil, if any
PCB Testing Company	Company that performed the PCB test
PCB Level Indicator	LES assigned PCB risk level
Risk Reduction Flag	Denotes if unit should be removed to lower LES' PCB contamination risks

Gallons	Number of gallons of fluid the unit holds
---------	---



Fluid	OIL
Gallons	169
Remarks	<Null>
PCB Sample Date	<Null>
PCB Sample Number	<Null>
PCB PPM	<Null>
PCB Testing Company	<Null>
PCB Level Indicator	Non-Detectable
Risk Reduction Flag	No Risk

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Use Case Examples: Workflow Mgmt

LES SAP-GIS Integration

GIS-SAP Sync (connected to SAP Production server)

Flash Copy All to SAP Save Changes Settings

GIS Field Name	GIS Value	SAP Value	SAP Field Name
Light Type	STREET LIGHT	STREET LIGHT	Type of Equipment
Original Installation Work Order			Installation Work Order
Original Installation Drawing	LAC-0090	LAC-0090	Drawing Number
Luminaire Color	GRAY		Pole Color
Arm Material #			Arm Material Number
Luminaire Material #	00000000000010355	00000000000010355	CONSTYPE
Photo Control Type	NO	NO	Photo Control
Owner	CITY OF LINCOLN	CITY OF LINCOLN	Owner
Circuit #	3312	3312	Circuit #
STLT Maintenance Class	1	1	St Light Maintenance Class
Actual Wattage	312	312	Wattage
Date Created	12/18/1995	12/18/1995	Date Installed
DESCRPT	Luminaire 312 WATT 10355	Luminaire 312 WATT 10355	DESCRPT
SUPFLC	LESLS12T10R06SE	LESLS12T10R06SE	SUPFLC
SYS_STATUS	INST	INST	SYS_STATUS
SAP Tech Object	00000000000040474	00000000000040474	EQUIPMENT
SAP OID	E00000000000040474	E00000000000040474	OBJNR
Object ID	866	866	TECHID
Date Modified	20170732	20181118	CHGDT
Last User	LGBOO	ODELCASTILLO	CHNAM

Displaying feature 21 of 121 Features selected.

New Notification

Notification Number:

Notification Type: L1 - Maintenance Reques

Short Description: 2430 S 74 ST

Status: OSNO

Functional Location:

Equipment Number: 000000000000488639

Priority: 3 - Medium - 30 days

Reported By:

Long Description:

Save

Filter

- SAP Order Type
- SAP Orders - Planner Group
- SAP Orders - Priority
- SAP Notification Type
- SAP Notifications - Planner Group
- SAP Notifications - System Status
- SAP Notifications - User Status
- SAP Notifications - Coding Code

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Use Case Examples: Workflow Mgmt

3-GIS Lifecycle at Garland Power & Light

Service Request - 2076 - Testing new SR

Service Request | Estimate Worksheet | Checklist

Available Tasks: Select a task

SR Number: 2076 Active Estimate: Default Estimate
 Department: Distribution Job Type: UNDERGROUND CONSTRUCTION - CAPITAL
 Project Plan Phase: EC-00624-001-1 Budget Classification: Capital
 Creator: Ian Martin Creation Date: 6/20/2024 12:11:55 PM
 Assignee: Ian Martin Assigned Date: 6/20/2024 12:11:55 PM
 Public Staff ID: 12345 Percent Complete: 0 25 50 75 100

Advance To Engineering: No
 ***SR Job Name: Testing new SR
 CIP Project Name: CIP-2024 UG Network Upgrades Priority: Low
 Scheduled Start Date: 9/9/2024 High Visibility: Yes
 **Requested Completion Date: 11/22/2024 Billable: No
 Schedule Reminder Date: 8/3/2024 Paperless: No
 Customer Name: City of Garland Customer Phone #:
 Assigned Inspector: David Kuykendall Contact Email:

Work Information

Pre-dir: ***Street: MAIN Suffix: ST Post-dir:
 Pre-dir: S ***Street: SIXTH Suffix: ST Post-dir:
 City: GARLAND State: TX
 Remarks: Downtown

Default Estimate

Materials: \$20,530.31 Equipment: \$6,685.34 Labor: \$3,612.92 Other: \$3,500.00

Expand All

- Install OH-45 || \$2202.05 || EST QTY-1
- Install UG-2710CW || \$4551.05 || EST QTY-1
- Remove OH-35 || \$862.32 || EST QTY-1
- Install 2B5-14-72130 || \$360.00 || EST QTY-1
- Install #2 CU 600 V CABLE || \$2723.24 || EST QTY-3
- Install 2B5-19-19070 || \$70.35 || EST QTY-3
- Install UL-03 || \$80.48 || EST QTY-1
- Install T1000R4889Y2773PH || \$1832.54 || EST QTY-1
- No WL

Miscellaneous Items:

Action	Category	Description	Cost
Install	Contract Labor	Clean and remove debris	\$2,000.00
Install	Contract Labor	Curb cut	\$1,500.00

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Use Case Examples: Workflow Mgmt

Service Request - 2076 - Testing new SR

Service Request | Estimate Worksheet | Checklist

Available Estimates: Default Estimate

Name: Default Estimate
 Date Referred: 9/20/2024
 Scope of Work: Install 1000 KVA UG transformer and three 3PH services to 3-unit commercial storefront/restaurant pad site adjacent major retail development
 Active Estimate
 Estimate Estimate

Traffic Condition: No Traffic
 Labor: Internal
 Soil Condition: DIRT
 Network Status: De-energized
 Site Condition: Normal

Raw Total: \$34,826.57 Materials: \$20,530.31 Equipment: \$6,685.34 Labor: \$3,612.92 Extra Costs: \$3,500.00

Compatible Units - \$30,826.57

Type	Name	Apply Qty	Traffic Condition	Labor	Soil Condition	Network Status	Site Condition	Targeted Material	Cost	Action
+	Point	1	1	No Traffic	Internal	DIRT	De-energized	Normal	\$7,617.42	
+	Span	1-2	150	No Traffic	Internal	DIRT	De-energized	Normal	\$3,083.26	
+	Point	2	1	No Traffic	Internal	DIRT	De-energized	Normal	\$16,462.37	
+	Point	3	1	No Traffic	Internal	DIRT	De-energized	Normal	\$567.97	
+	Point	No WL	1	No Traffic	Internal	DIRT	De-energized	Normal	\$1,695.55	

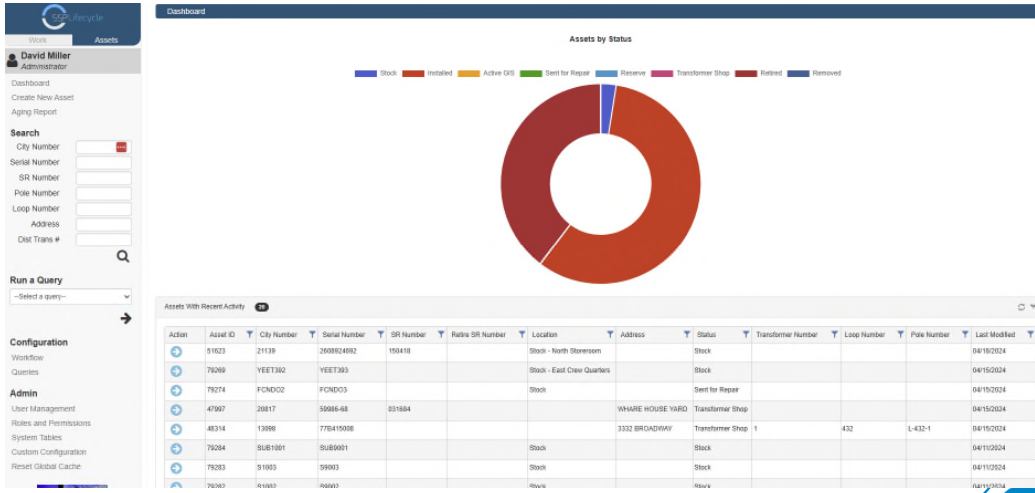
Miscellaneous Items - \$3,500.00

Action	Category	Description	Unit Cost
Install	Contract Labor	Clean and remove debris	\$2,000.00
Install	Contract Labor	Curb cut	\$1,500.00

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Use Case Examples: Workflow Mgmt



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Considerations

What to do next

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Define Your Vision

What do you want to do?

- Make maps
 - This should be step one!
- Feed Operational systems
- Feed analysis & planning systems
- Engineering Design integration
- Asset of record
- Digital twin (scenario analysis)
- Field tool
- Operational analytics & dashboards
- Engineering analytics & dashboards



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Define a Strategy / Roadmap

Have a plan for achieving goals

The plan includes (but not limited to):

- Education
- Decisions that need to be made
- Prototype / pilot
- Business requirements
- Identify/mitigate risk
- Do you want to workshare
 - Example: Consortium to do inventory, build and populate database
- Budget / schedule
- Data analysis & remediation
- Change management approach
- Training approach



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Design Slow

Take the time to design, study, and learn

- Standardized data model
 - Talk to other utilities and consultants about this!
- New business processes
- User interfaces
- Configurations
- Pilots
- Symbology & maps
- Any customizations
- Integrations
- Reporting needs
- Training plans
- Change management plans



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Questions

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