

Transitioning to a Cloud-Based Utility System: Easton Utilities Case Study



Cloud-Based Utility Systems: Where the Journey Began

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About Easton Utilities

- Easton Utilities is responsible for the operation, management and maintenance of the electric, water, wastewater, natural gas, cable television and internet utility services for the Town of Easton and portions of the surrounding area. Easton Utilities provides service to 15,000 accounts across the service area.
- In 1923, Easton became the first municipality in the state to own all of its utilities and is the only microgrid in the state of Maryland owning two power plants that can generate more than its peak load.

Cloud-Based Utility Systems: Where the Journey Began

EUC provides many utility services

- Electric, Gas, Water, Wastewater, Cable, Internet, Phone
- **Guiding principles for Customer Information System**
 - Provide excellent customer service
 - Stability
 - Interoperability (must integrate!)
 - Maintenance free

2013 Cloud was on the cutting edge for utilities

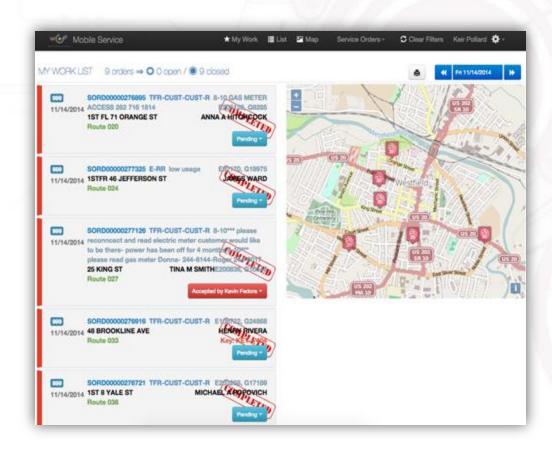
- New model promised to deploy new functionality faster, more efficient
- Less IT footprint to manage, allow focus on core value of IT
- Pain points of upgrades, interoperability
- Salesforce was in its early days of disruption

Cloud was not a distinct strategy choice

- It was potentially a benefit, but not a strategy
- Was not a "revolution" but became part of the "evolution"

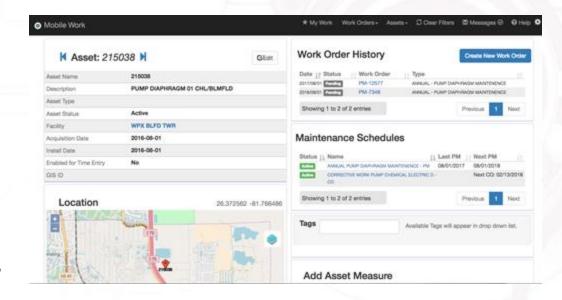
2013 Chose SpryMobile

- Perfect application to test out the SaaS waters; all users outside the firewall
 - First adopters Cable, Internet, Phone
- Browser based application for Field Service staff
- API based application made integrations with systems a reality
- Real time updates to other applications and users



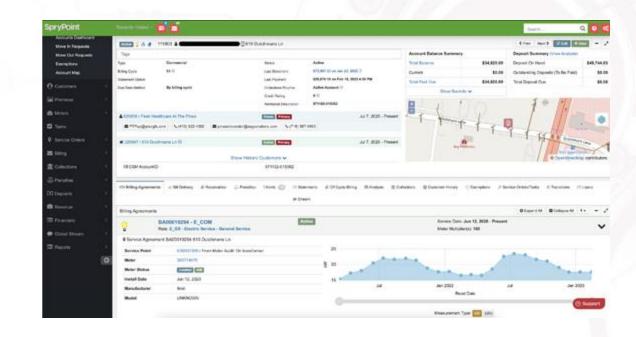
2015 Expanded SpryMobile

- Work Orders, Asset Management
 - Pole inspections
 - Vegetation management
 - Vehicle maintenance
- More departments adopted
 - Started fielding requests from departments left out of original rollout
- Integrations
 - OMS
 - Vehicle Maintenance App
 - Utility Business Portal



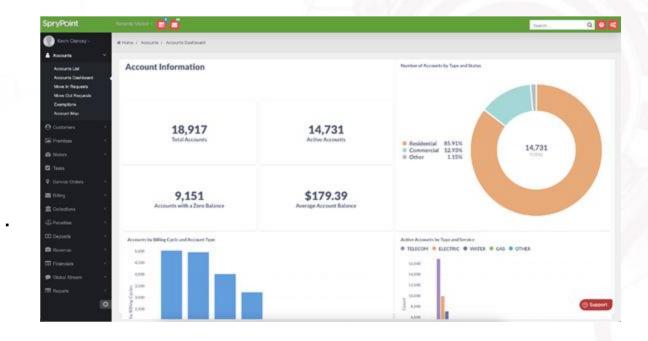
2020 Pilot SpryCIS

- Proof of Concept
- SpryPoint converted data and configured solution
- Stakeholders were able to see, feel and touch system
- 3 months
- Successfully buoyed our case to achieve project approval



2021 SpryCIS Go-Live

- Unanimous approval
- Go-Live November (9 months)
- Despite Covid complications, achieved on time on budget
- Integrations across EUC including...
 - OMS
 - Electronic Meter Card
 - SpryMobile
 - ESRI GIS
 - Phone System
 - Customer Page
 - Customer Portal
 - Collections Manager





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Lessons Learned

Lessons Learned

Does not need to be a complete revolution

- Early adopters' successes breed EAGER future adopters

Agile based implementation

- Configurations, testing, releases, SPRINTS

API-first applications

- Vendor managed integrations
- Expandable integrations

Speed and scalability – true cloud applications

- AWS infrastructure / backbone



True SaaS







On-Premise

Hosted

SaaS

Services	Responsibility	Responsibility	Responsibility
Platform	Utility	Vendor	Vendor
Business Continuity & Disaster Recovery	Utility	Vendor/Utility	Vendor
Database	Utility	Vendor/Utility	Vendor
System Software	Utility	Vendor/Utility	Vendor
Additional Services (Single Sign-On, Reporting, Containers, etc)	Utility	Vendor/Utility	Vendor
Business Applications	Utility	Utility	Vendor
Cybersecurity	Utility	Vendor	Vendor/Utility

True SaaS







On-Premise Hosted SaaS

Services	Responsibility	Responsibility	Responsibility
Upgrade Cost	High	Moderate	Low
Upgrade Frequency	Low	Moderate	High
Customization	High	Moderate	Low
Configuration	Moderate	Moderate	High
Scalability	Low	Moderate	High
Integrability	Moderate	Low	High
Cost Reduction Opportunities	Low	Moderate	High

SaaS Support Differences

✓ User Support

- Unlimited (Phone Calls, Email, Case logging) -
- Dedicated Support Contact
- Customer Portal
- Knowledge Base & Customer Community
- User Groups
- Webinars
- Embedded Documentation
- Product Feedback

✓ Application Support

- Uptime Monitoring
- Performance Monitoring
- Alerts & Error Notifications
- Logging & Developer Support
- Hot updates
- No upgrade cycles
- No infrastructure depreciation
- Built-in disaster recovery & business continuity
- Scalability / AWS limitless resources



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Integration Demonstration





Application Programming Interface: API-First Principles

YOUR API IS THE
FIRST USER
INTERFACE OF
YOUR APPLICATION





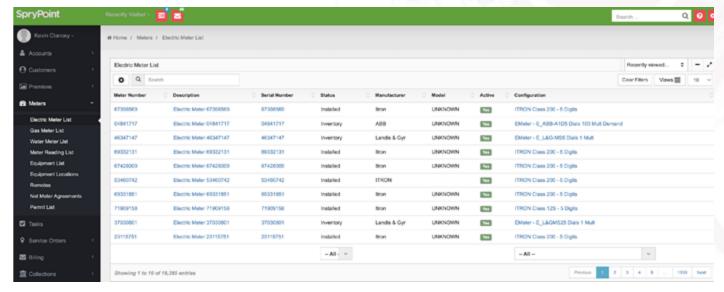


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Cloud CIS Results

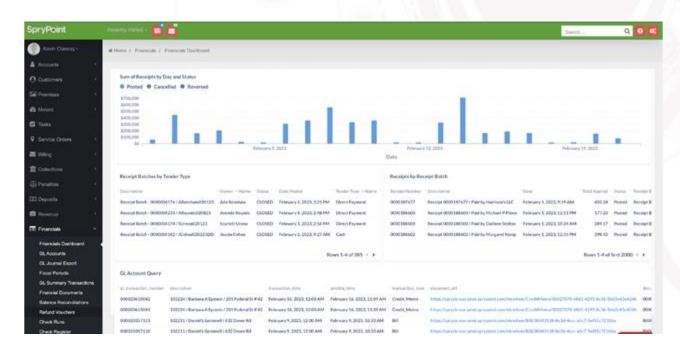
Speed and Scalability

Rich searching and filtering **Sub-second responses** Horizontal processing



Reporting, Security, Accessibility

Reporting database, high availability Live dashboards



Connections Summit Breakout Session #3 Feedback





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