

Lawrence Kravets

Overview

What are we covering?

- Introduction and bio
- Public Works Technology
- On-going discussions
- Q&A





Lawrence Kravets

IT Director

My story:

- University of Illinois at Chicago, 94
- Certified Information Systems Security Professional (CISSP)
 - Global Industrial Cyber Security Professional (GICSP)
 - 25+ years in Information Technology
 - 12 years in IT / OT @ Concentric Integration





SCADA

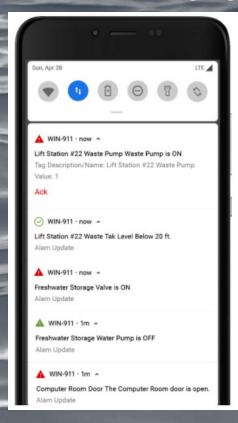
- Many of you may have SCADA
 - Maybe its just viewing operations from the SCADA computer
- Provide secure remote access to review operations in the field (and off hours)
- Alarming on the smartphone
 - Not just phone calls but interactive alarm management
- Historical access with trending of data

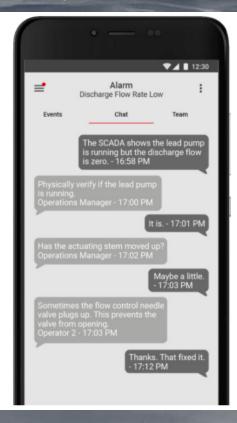


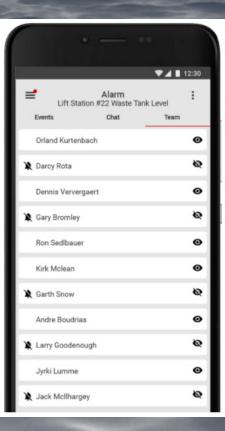


Smartphone alarm management

- Cloud based
- Acknowledge right on the phone no more calls











- Review sparklines for abnormalities
- Review the level trend and maybe you are expecting a certain pattern
 - Lift station ramping up fast could mean that a pump needs maintenance or longer ramps might mean its not as efficient now





Fleet Management

- Fleet Vehicles
 - All types: service trucks / plows / building inspectors
- Installation of cellular routers with GPS locator
 - Very much like Police vehicles
 - Automated Vehicle Location (AVL) systems location / speed / stops
- Dashboard / Live tracking safety when vehicles are on the road
 - Share data on website to the community
 - As a resident you can see where plows are on the map
- Install front facing cameras see what is going on
 - Snowplows
 - Live weather / snow on the roads post online
- Sometimes integrated with Asset Management to track service history on the vehicle





Asset Management / Computerize Management System (CM)

- Track the assets that you are responsible to manage and maintain
- Creation of maintenance records and service reminders (work order management)
- Transfer of institutional knowledge into a maintenance management system
 - Some assets are unique in their installation and operation
 - Photos
- Assistance in budget planning
 - You know if things are just too old or should be replaced due to maintenance issues

laintenance

- Reports can help tell the story
- Coordination of resources and planning
 - Resource planning
 - Time and money savings by creating efficiencies
- QA/QC
 - Maybe you need to document your QA/QC



Drones

- Small unmanned aircraft piloted externally
- Damage inspection
 - Infrared cameras used to inspect for corrosion.
- Bridge inspections faster and safer
 - Get underneath, even over water
- Keep workers safe by using a device to record and then review from the office
 - Keep images to track aging over time
- Specialized drones can even go into confined spaces











Q&A

Questions and answers

- Open discussion what are others doing?
- Additional topics?
 - Water meters and usage reports





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