

Strathcona County Utilities SCADA system upgrade

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SUBMISSION TYPE

30 minute presentation

6-12 page paper plus 30-minute presentation

3 foot wide x 4 foot high large format poster

KEYWORDS

SCADA, Upgrade, Issues, Operations, Investigation

ABSTRACT

This presentation is to provide what occurred during the beginning, intermediate and final stages of our SCADA system upgrade that occurred in 2016-2017. I will open with background of who I am as well as the County of Strathcona to provide an overview of the area of our responsibilities. I will discuss where the existing software system was operationally and the problems that we had with it. I will then discuss my investigation to find a replacement software package. This included looking at various vendors and decisions on whether to move to a different system or stay with the one we had. From there I will discuss how we proceeded with the project, operational involvement at the beginning, and our RFP (request for Proposal) for procuring a vendor for this work. I will also discuss a significant operational issue with our radio system that occurred during this same time and what we did to rectify it. I will discuss how we proceeded with the project, involving operations in on the ground floor to try to capture as much of their input as possible into the design. I will also discuss our relationship with our vendor and stress the importance of good communications.

I will then discuss how the system is operating now, with the improvements over the old system, and comparisons of some screens. I will discuss how operations transitioned over from the old system to the new one and how we managed the process. I will then end the presentation with an overview of what the future possibilities of the system could entail.

ABOUT THE AUTHORS

Mark Williams is the Supervisor of Electrical and Instrumentation Engineering for Strathcona County Utilities. Mark has worked for the county since 2005. Mark is a Journeyman Instrument Technician and Electrician and is a CCST with ISA. In his spare time, Mark enjoys riding his motorcycle and travelling with his family.