

City West Water Enterprise SCADA and Data Platform

Presented by

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City West Water
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Enterprise Data Platform

"The Enterprise SCADA and Data Platform is the first stage in our 2020 vision for City West Water."

David Maple

Manager Network Operations







Business Challenge

- Apply standards across the business
- Upgrade legacy plant control and bespoke systems to a single platform
- Single, secure source of truth for operational data
- Proactive visualisation, reporting and data access

Solution

- ClearSCADA for WAN and plant control
- PI System as the single source of truth for all field operational data
- Geographically diverse, fault tolerant, highly available deployment

Results and Benefits

East Kellor

- Successful system cutover
- All historical data migrated
- Broader, secure access to operational data throughout the business
- Platform for future growth and expansion of network control

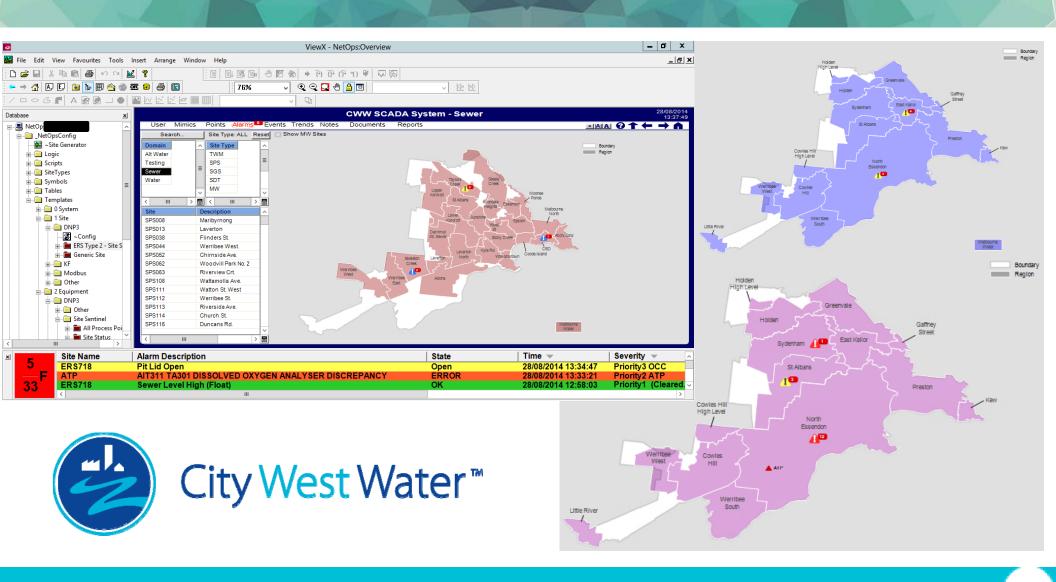
About

- 580 km² service area
- Population 850,000
- 320,000 res' customers
- 35,000 non-res' customers
- 90 GL water supplied
- 70 GL sewage collected





Project Overview



Agenda



- About
- Legacy Systems
- SCADA
- PI System
- ClearSCADA to PI Synchronisation Tool
- Project Benefits
- Future Plans and Next Steps
- Summary
- Questions

About









Service





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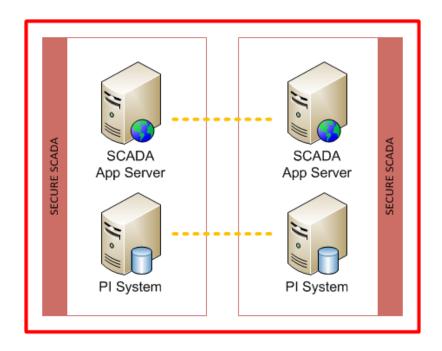
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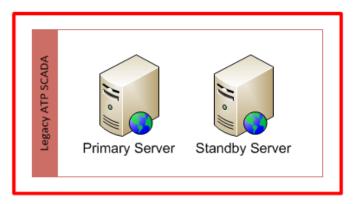




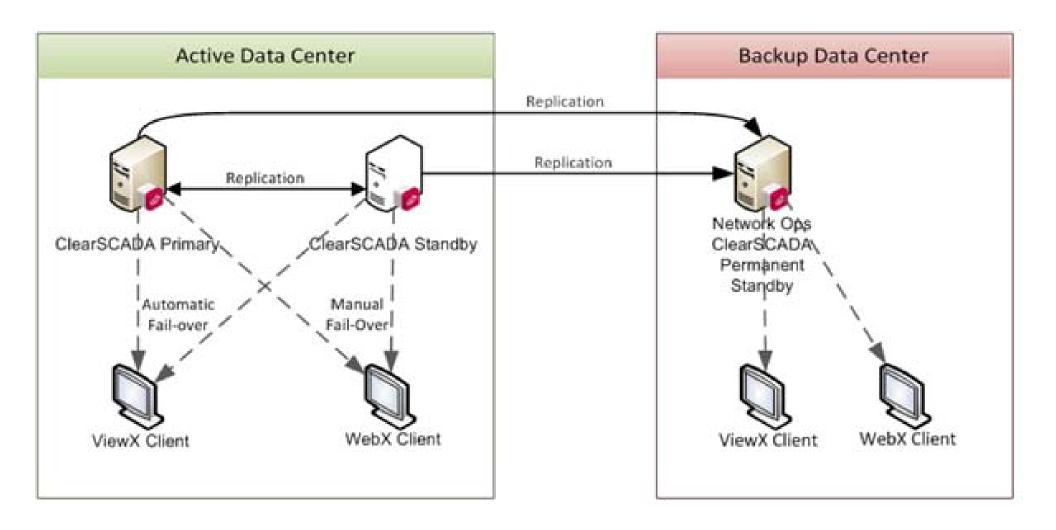
CWW Legacy Systems

- Bespoke
- Security
- Control
- Scalability
- Cost
- Access to data
- Remote Only

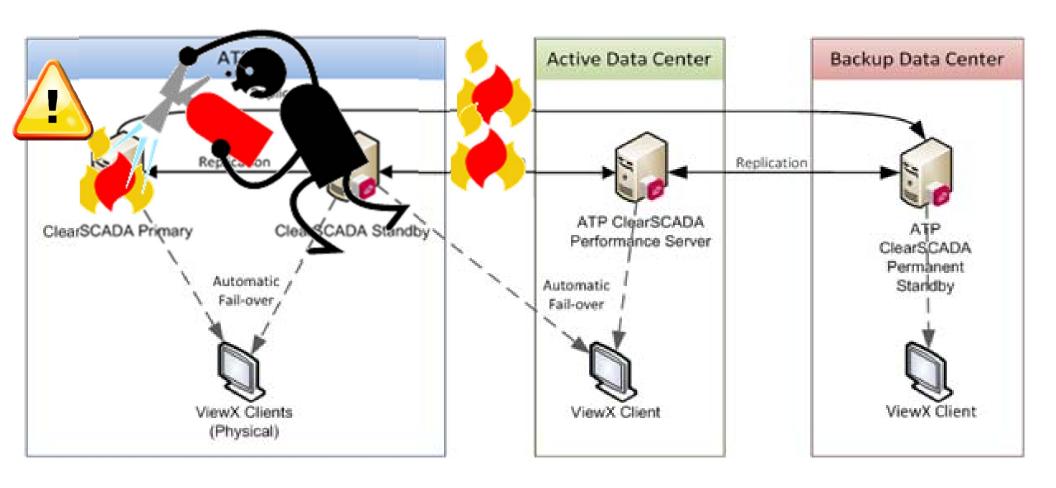




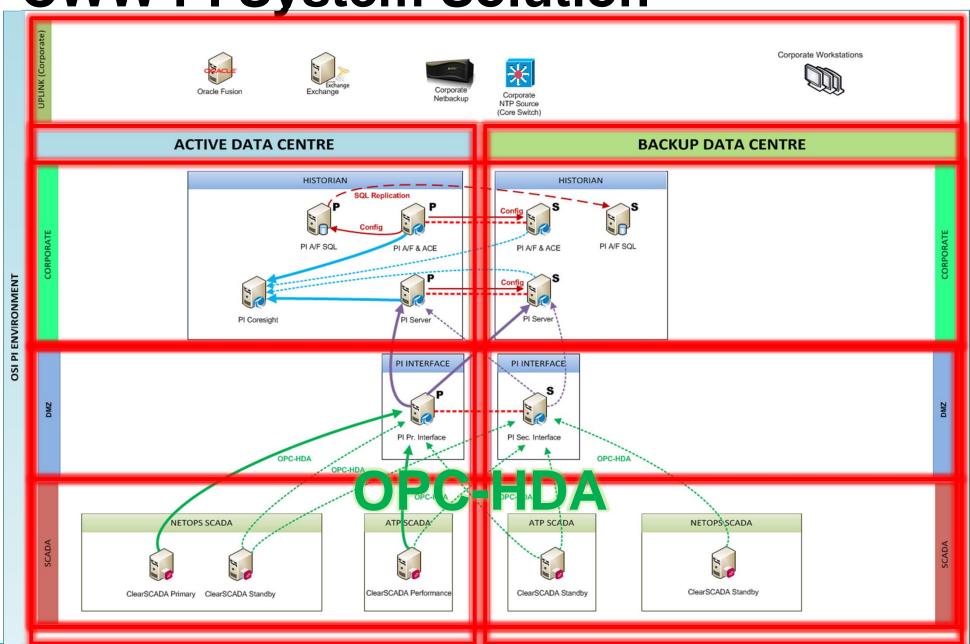
CWW ClearSCADA Solution Network Operations



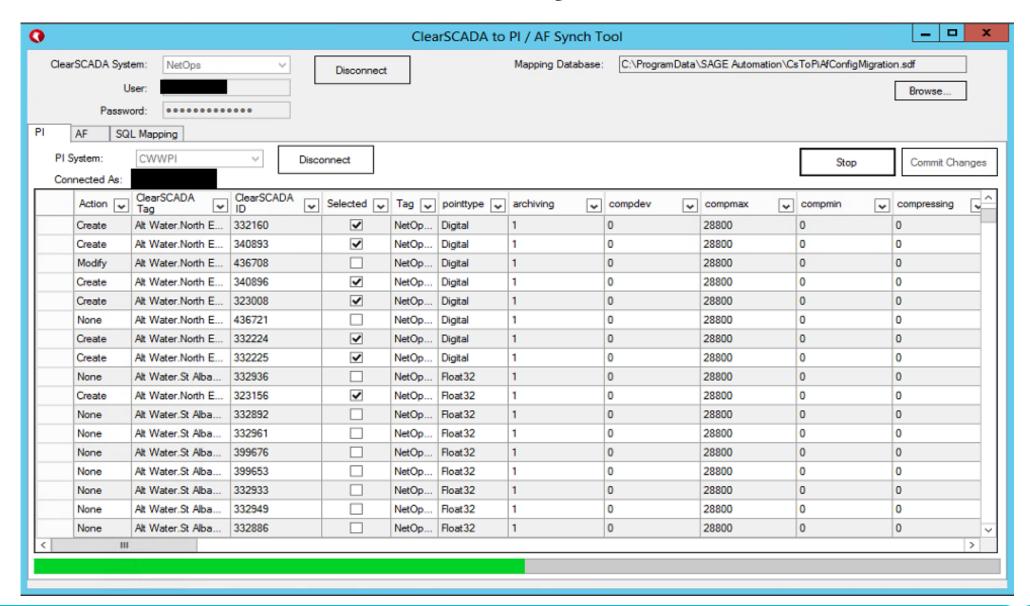
CWW ClearSCADA Solution Altona Treatment Plant (ATP)



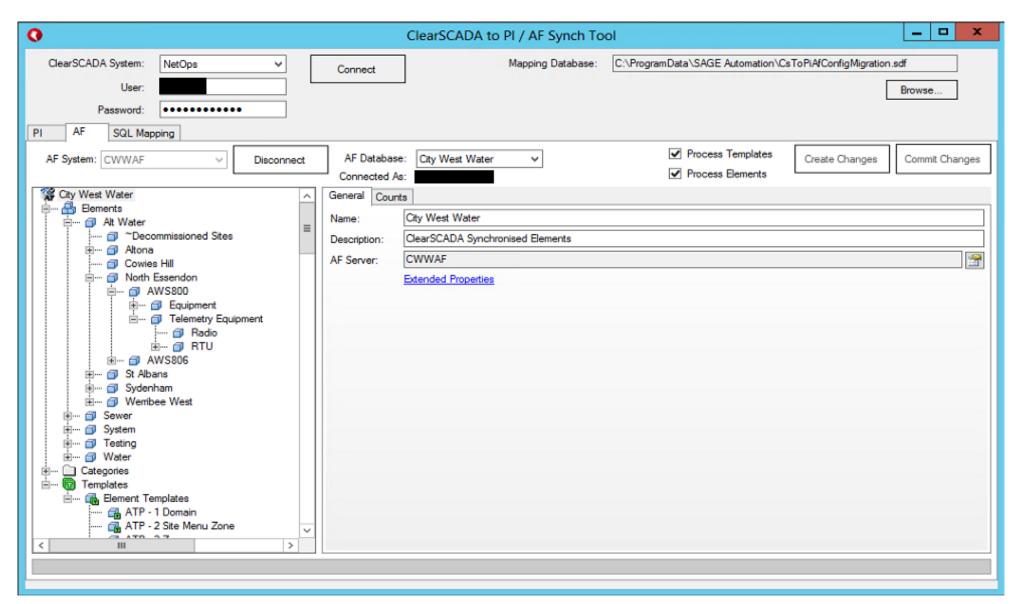
CWW PI System Solution



ClearSCADA to PI Synchronisation



ClearSCADA to AF Synchronisation



Project Benefits

- Independent and open
- Secure, fault tolerant and highly available
- Improved visibility and reporting
- Superior control
- Faster troubleshooting and site deployment
- Proactive monitoring
- Lower commissioning costs
- Templates
- Fully integrated and scalable
- Aggregation of data

Future Plans and Next Steps

- Extend the system to include:
 - New field instruments and devices (unconstrained)
 - New sites
 - New treatment plants
- Integrate with Oracle business systems
- Share data more efficiently
- Analysis and predictive modelling
- Reduce reactive elements of the business

Summary

- Fully integrated business platform
- Widely and easily expandable
- Enabler for future development
- Secure, fault tolerant and highly-available
- SecureDNP capable
- 30,000 PI points and growing
- 240+ sites connected
- 1400+ devices connected
- Projected to grow to 3000 devices by 2020

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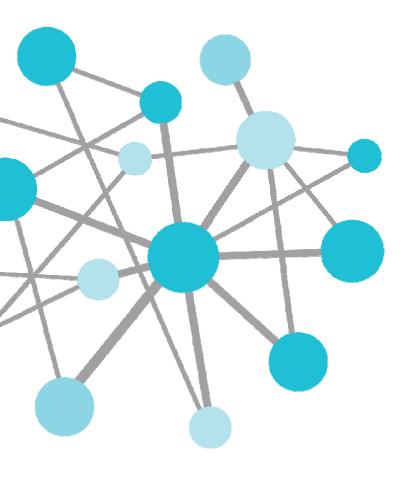


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THANK YOU

