

REAL-TIME PERFORMANCE MANAGEMENT FOR THE ENTERPRISE

RtPM



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Deploying an embedded Historian at Cascades



- Cascades is a leader in the production, and conversion of packaging products, fine papers and tissue paper.
- 15,000 people, 150 plant locations in Canada, United States and Europe.
- Currently consumes over \$300MM in energy annually.
- Two years ago Cascades began an effort to reduce energy cost by 2% per year.



Project Goals

- Currently in the second phase of deployment.
- Extending the visibility to individual production machines and locations where server based RtPM tools are not available
- **Goals**
 - Easily integrate into existing control systems
 - Provide local reporting
 - Synchronize data with Enterprise RtPM servers



Project Solution

- Cascades selected Prosoft Technology's AppSrvCE Historian to meet the goals of the project.
 - AppSrvCE uses OSIsoft's ECHO Historian



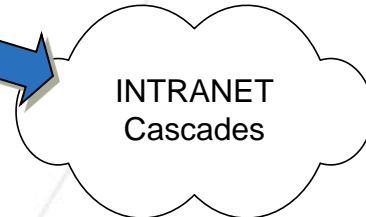
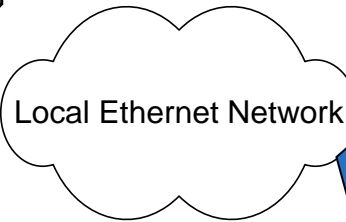
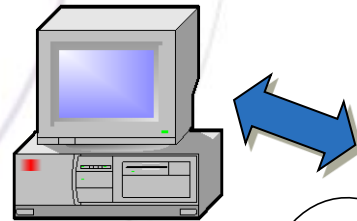
Why use an Embedded Historian?

- Remote locations that are inaccessible
- High value equipment or process
- Data needed locally for decision making or optimization
- Ability to deliver a “product” with historian built in

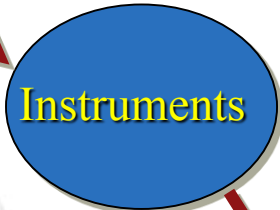
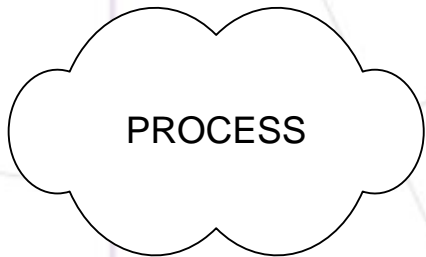


Energy consumption monitoring

Data is available locally
With an Excel Spreadsheet
(direct communication using
a VBA application)



PI Server
Energy Group



AppSrvCE Historian

- Synchronization with the PI server using Echo SDK and PISDK
- Some instruments are only for monitoring, other signals are in parallel with the controller.



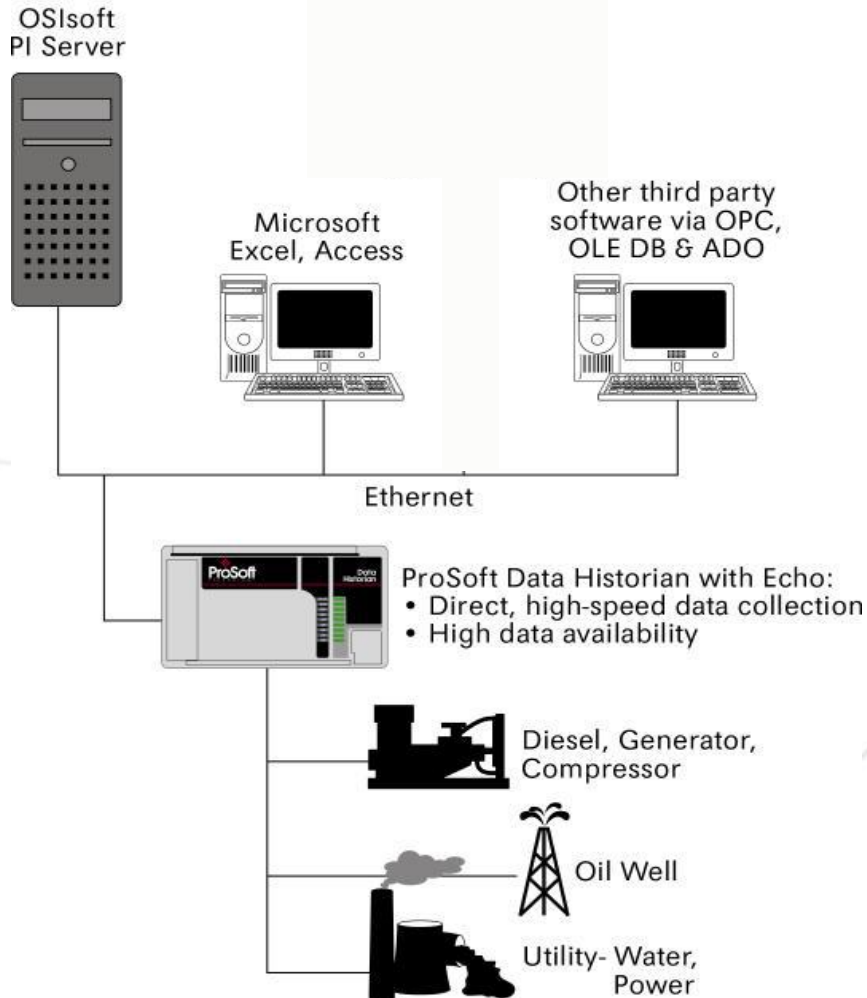
AppSrvCE Historian at Cascades

Results

- Remote management, configuration, and programming
 - Remote Desktop, FTP/Telnet, IEC-1131 programming tools
- Integration using AB 1794 Flex I/O
- Local reporting using Microsoft Excel (VBA)
- Synchronization with Corporate PI server
 - Ethernet communication directly between AppSrvCE and remote PI server
- Process optimization
 - **Energy saving: \$20K/month per machine**



Where are Embedded Historians being used?



- Remote or mobile assets
- Slow or intermittently connected devices
- OEM equipment
- Electronic documentation and regulatory compliance
- Predictive maintenance, asset management, error analysis, process optimization

Prosoft AppSrvCE Historian

- Powered by a 300MHz x86
- Windows CE .NET
 - Provides Telnet, FTP, and Web server
 - Remote Desktop Support
- 2 Ethernet ports, 2 USB ports
- Up to 6 serial ports
- Compact Flash slot
- Direct Connection to AB 1769 and 1794 I/O



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