

A bulk gas distributor needed their Honeywell Uniformance® Historian migrated and upgraded.

THE ISSUES

Uniformance PHD was being used to centralise data capture and provide long term storage for the customer. Information pertinent to gas usage collected by Uniformance was automatically 'pushed' to the customer's billing system. Therefore a smooth transition was critical to maintain the integrity of the overall system and the dependant connections and services.

THE PROJECT

We were able to resolve existing issues with the old platform and then successfully migrate away from the old Oracle™ based R210 Uniformance® to the newer MSSQL based Uniformance R321. The existing point configuration and data archives were maintained and data collection interface updated to use ExperionLink, a link utilising OPC-HDA connectivity to Experion®.



With the addition of Matrikon OPC Redundancy Broker (ORB) for server arbitration, Cromarty was able to provide a robust and fully functional upgrade and migration for the customer. The system was fully tested and billing transfer and client access maintained.

WHAT IS A HISTORIAN?

A 'Historian' product is a suite of software tools that assist a business with its data management needs. SCADA systems are more focused towards operator situational awareness and efficient operation of plant and equipment. Storing and presenting the data in intuitive and easily accessed ways is not typically the core focus of SCADA products.

The core focus of a Historian is to store data efficiently and provide the client tools required to reduce barriers that can often frustrate users.

CASE STUDY:

Bulk gas distributor

CHALLENGE

Existing Honeywell Uniformance® Historian needed to be migrated and upgraded from their existing physical servers to a new, virtualised platform.

SOLUTION

Cromarty were engaged to migrate and update the customer's R210 Uniformance PHD historian to a new virtualised hardware platform and upgrade the software to Uniformance® R310.

RESULTS

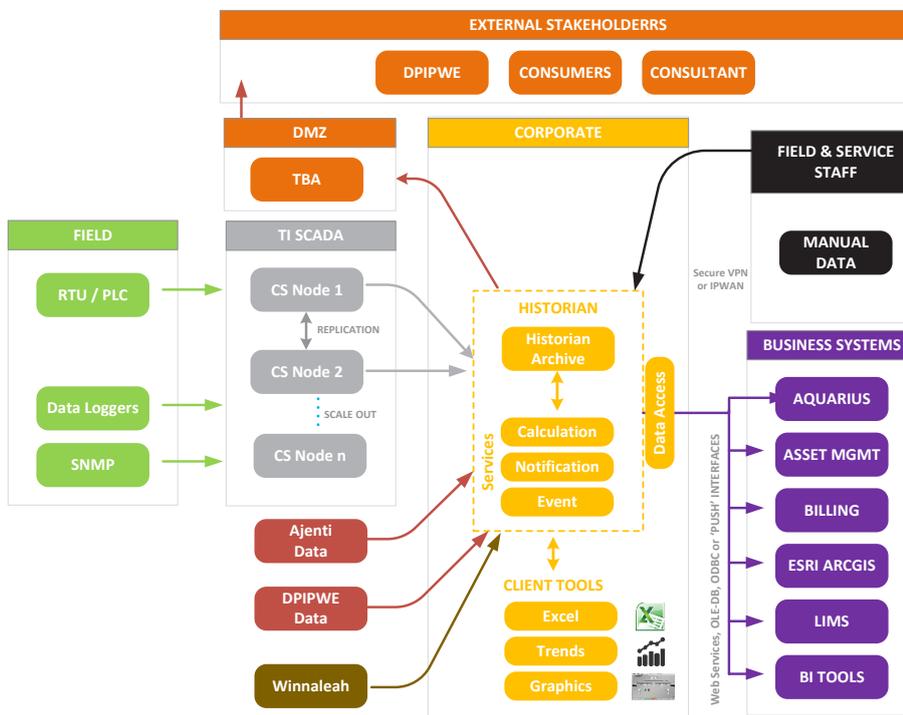
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Historians, in summary, provide the following services:

Data Centralisation	Data from multiple sources can be brought into the one system, or linked and presented as though it exists in the one system.
Data Archive	Historians are highly efficient and scalable data stores. Historians can store data for up to 20 million tags and capture hundreds of thousands of events per second. It can provide up to millions of time-stamped events per second to thousands of concurrent client application connections.
Client Tools	Integration with Excel, HTML5 thin clients, OLE-DB or direct SQL access for reporting, manual data entry tools, SharePoint integrations, custom trending and reporting tools.
Advanced Services	Email notifications based on user entered conditions, event detection, advanced calculations

The Historian is able to ingest data from the various data sources listed below via native interfaces and simple configuration. The Historian may then become the core of a reporting framework where it shall share data with Business Systems and external stakeholders if required (via a secure method).

The Historian may exist in the corporate network and integrate into the existing Active Directory system to provide seamless data access for users.



OUR SERVICES

Cromarty are able to provide services to help improve or implement Historians, including: Uniformance PHD[®], Osisoft PI Server[®] and WonderWare Historian[®].



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