RTU Data Logging - InSQL Integration
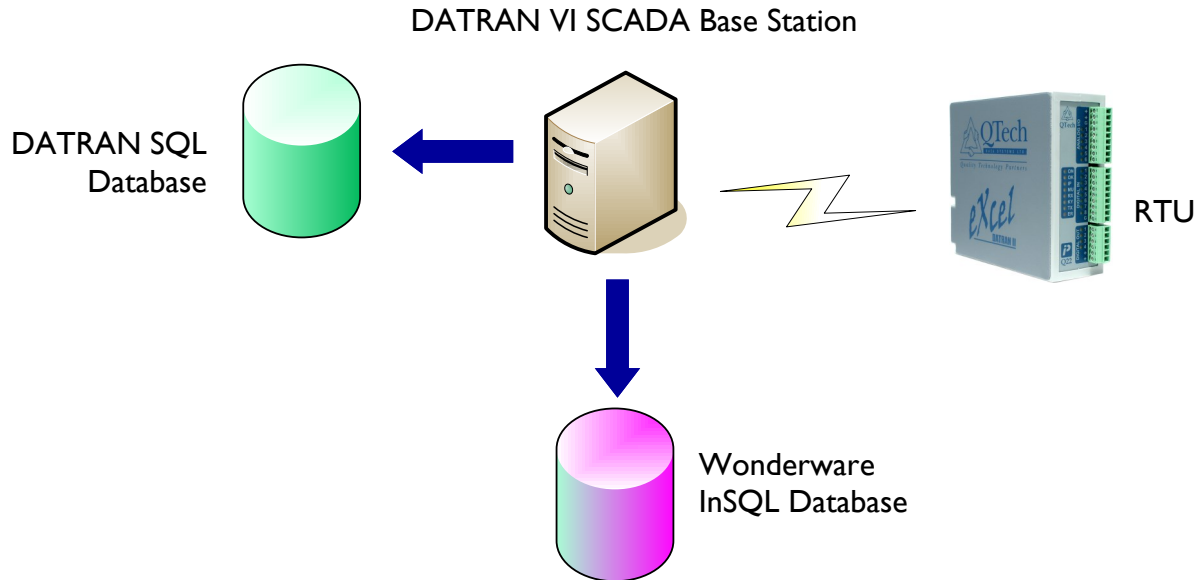
DATRAN VI SCADA Base Station

DATRAN SQL Database

Wonderware InSQL Database

RTU

DATRAN VI SCADA Base Stations have traditionally logged historic data to the DATRAN database, which is a generic Microsoft® SQL database.

The DATRAN software packages, Historical Trending and Reporting, have then been used to display and manipulate this data.

DATRAN RTU Data Logging is a powerful feature that allows RTUs in the field to log data which is then periodically retrieved over the existing communication channels.

This logged data is easily integrated into the DATRAN database via the Historic Data Interface software.

This data is not in chronological order with respect to existing data in the database, and is sometimes referred to as "late data". This can cause problems for databases other than the standard DATRAN database.

Wonderware's Industrial SQL (InSQL) is a proprietary type of database with extensions over Microsoft® SQL Server.

With the deployment of InSQL, the integration of non chronological "late data" requires an alternative approach.

A new DATRAN service called "InSQL Connectivity Module" (InSQLCM) provides the mechanism to stream data into the "Fast Load Folder" of InSQL.

Integrating DATRAN RTU Data Logging into InSQL allows the Active Factory suite of products to be utilised for the display, manipulation and reporting of the data.
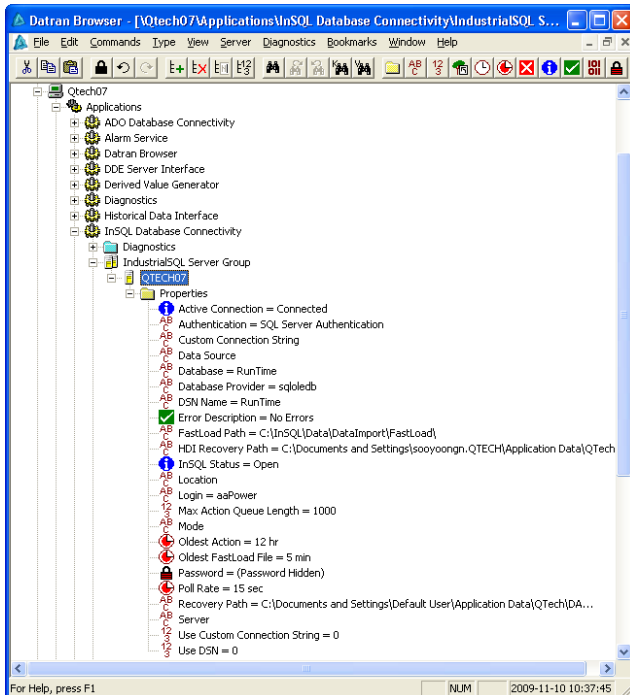
Key Advantages Include:

- Ability to Log non chronological data to InSQL and/or the DATRAN database
- Integrate DATRAN RTU Data Logging into Wonderware as extensions to the existing system
- Native DATRAN InSQL configuration provides a seamless and elegant solution
- Enables a common repository for multiple sources of system data

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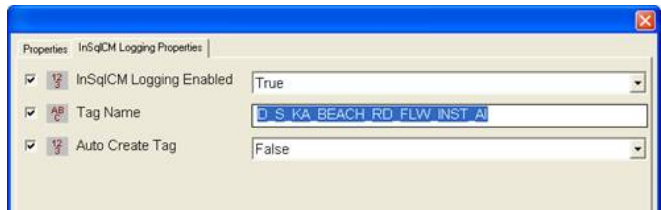
DATRAN InSQLCM Configuration

The following screen shots demonstrate the sequence to get analogue DATRAN RTU logged data into InSQL via the DATRAN base station.
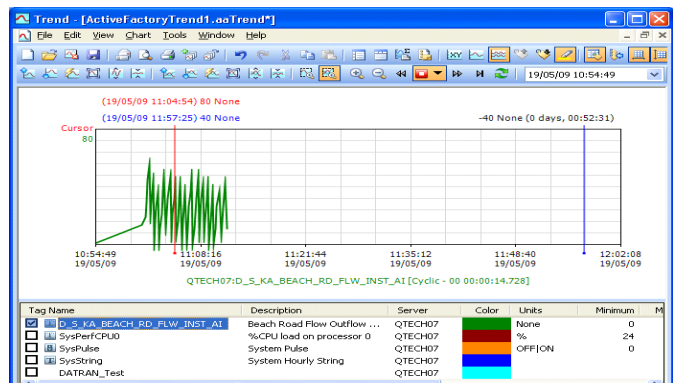
Step 1. Connect InSQLCM to InSQL

Step 2. Configure DATRAN HDI

Finally, simply configure DATRAN Historical Data Interface (HDI) to log to the Wonderware InSQL Server

Step 3. Example Output

This is a typical trend of the DATRAN VI analogue point being logged to InSQL when viewed in Active Factory Trend

DATRAN VI Software Compatibility

• Version 6.64 and above

QTech offer a complete solution including installation and configuration.

Please contact QTech for a system implementation proposal.

12 Midas Place
Middleton
Christchurch 8024
New Zealand

Phone: +64 3 3663713
Fax: +64 3 3652815
E-mail: sales@qtech.co.nz
Web: www.qtech.co.nz