



SmartPlant Enterprise Schema Unification

Systems implementation and integration

Customer Benefits

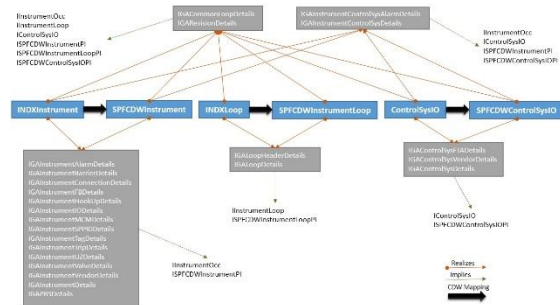
Standardised company-wide engineering information management model, and enabled consolidation of project-based deliverables.

The Client

Our client is a natural gas producing company based in Abu Dhabi, UAE. The company was established in 1975.

Our Services

Analysed multiple existing custom SmartPlant Enterprise tool schemas, from different versions, and designed and implemented a consolidated, unified company schema, including mappings.



Typical schema design diagram

Project Challenge

Our client faced a significant challenge common to many owner/operators, who have executed multiple major projects over a long period of time. Standardising on the Hexagon PPM SmartPlant Enterprise platform, mandating initial configurations and reference data, and requiring contractors to hand over complete digital records of project deliverables ensured an excellent information resource was available.

Unfortunately, the passage of time meant that many different versions of the design applications are in use. In addition, unique, project-specific demands require that each project make unavoidable and sometimes incompatible additions to the application configuration. This resulted in a situation plant information was contained in more than 50 different source application databases, with a range of software versions spanning nearly 10 years, and many variations from the standard client reference schema.

Our client's challenge was to streamline and consolidate access to this valuable plant information, and provide a pathway for future project execution to integrate into a common platform.

Our Solution

TecSurge proposed a solution based on our expertise with the SmartPlant Enterprise application portfolio, consisting of the following primary steps:

1. Capture and compare all existing input application schema.
2. Propose a unified and consolidated schema, and submit for review.
3. Develop, map and test the unified schema.
4. Install and execute acceptance testing on site.

Successful completion of the project reinforced the value of frequent and clear technical communication and collaboration with the client team.

Capturing Inputs

The first step involved restoring, recovering and extracting the input application schema from the various design tool databases. In some cases, an existing SmartPlant Foundation (SPF) tool map schema provided an excellent starting point, while in others application-specific inputs such as data dictionaries and DDL files were processed.

Challenges addressed during this stage included working with very old application software, and in some cases working around defects in the data quality.



Facts and Figures

- Scope: implement unified schema covering 50+ input databases from multiple applications and versions
- Expertise: SmartPlant Foundation with input from SmartPlant design tool specialists
- Duration: 3 months
- Target: SmartPlant Enterprise for Owner/Operators (SPO) 2016

If you are interested in increasing your return on investment in SmartPlant Foundation via schema unification, please [contact us](#) today to discuss your options. Let's talk.

Contact us

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