

# Intergraph Process, Power & Marine 2008 Annual Conference

## Nordic Templated SmartPlant Foundation Solutions

Jean-Raphael Vieille  
Paul Means  
Kjell Solem

Intergraph Norway



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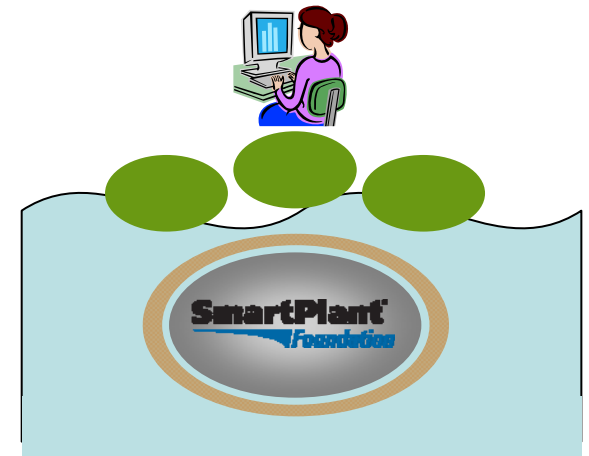


## Nordic Templated SmartPlant Foundation Solutions

- What is it?
- Why? Goals and Benefits
- Main Principles
- Modules and Status
- Demonstrations

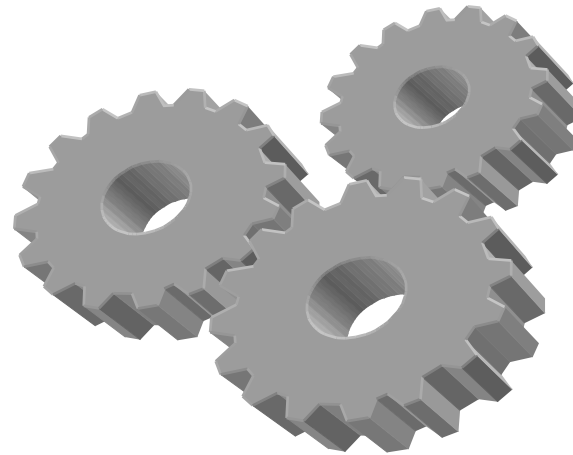
## What it is...

- Purchasable configurations (modules) for SPF targeting the regional oil & gas market.
  - “Startup kits”
  - Schema (the datamodel - what you like to manage) – SO model
  - User interfaces (forms etc)
  - Access (methods, user groups)



## What it is...

- SPF software extensions
  - General (Server & DTC)
  - As modules



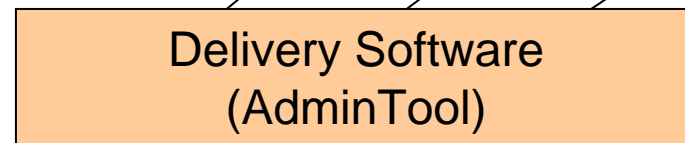
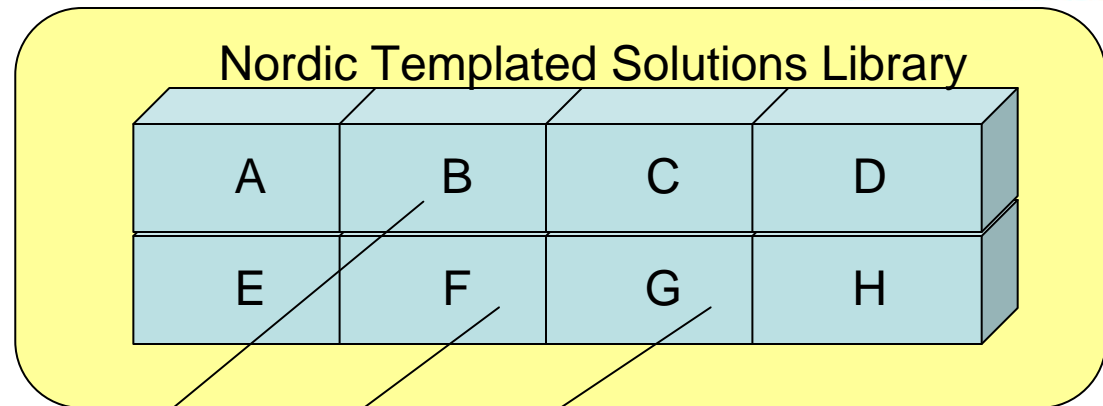


## A la Carte

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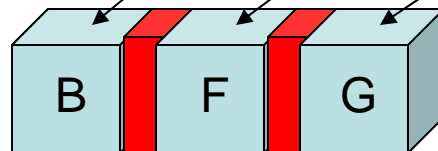
- Document Management
- Document Transmittal Management
- Tag Management
- Engineering Document Plan and Workflows
- Project Collaboration Management
- Model and Asset Management
- NORSOK Datasheets
- Contractor and Supplier Webservices
- Contractor and Supplier Web Portal
- User Manuals

### SPF Admin Database



Online or Offline  
"No Schema files"

Project/Customer  
SPF Admin Database



(Total) Customer need

Gap specifications and implementations

## Reasons why...

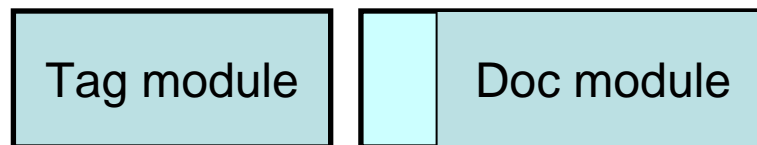
- Bring down SPF implementation time and cost significantly.
- More unified customer implementations
- Improve customer – implementation team communications
- Is a working solution at day 1 – sandboxing possible.

## Main principles...

- Module Documentation
  - Schema
  - Central for further requirements and implementation work
- A module is “least common denominator” regarding the target market
  - To suit the mainstream of customers
  - No nice-to-haves or niche-orientation
  - It is less costly to add than change
  - Graspable, and don't pay for something not needed.

## Main principles...

- Modules designed as components
  - To work together or in isolation
  - Better with more “slim” components than a few “fat” ones



- Based on EFSchema (Interfaces, props etc)
  - Compatibility
  - But only the fraction needed (for performance, for maintainability)

# SPF Utilities and Software extensions...



- Dynamic forms
  - Less configuration work
  - End-User more in driving seat
- “Outsource” configuration work to customer
  - By making it easier
  - Ex. enum definitions can be done by end user at run time
- List oriented capabilities
- Admin Tool

## Current Modules

- PBS (Central for ENS)
- Tag Management
- Document Management
- NORSOK Datasheets
- Design Tools Integration (in work)
- Model and Asset (startup next week)
  
- ...plus project tools

## Usage status

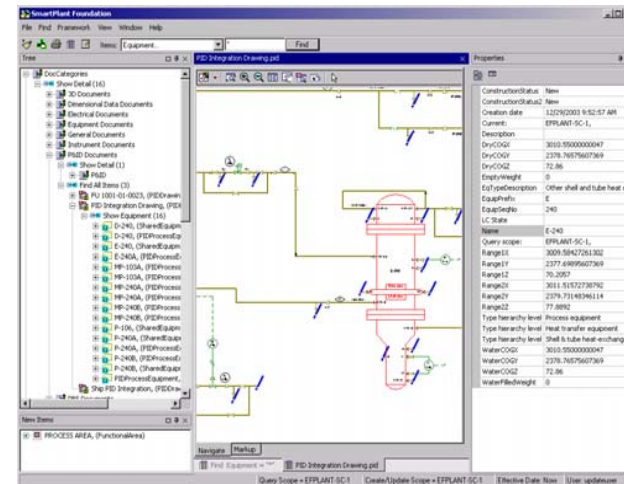
- 2 projects so far
- Definition time and Implementation time greatly reduced



# Demonstration time

# Design Tools Integration module

- TEF:
  - Tool/Tool integration
  - Tag sourced by tool, starts its life in tool
  - Tag and document deliverables made broader available by SPF



## With Integration module

- Tag can start its life in SPF
- And be updated by tool
- New tags from tools conform to schema defined by the Tag and Document Module
  - Interfaces not published by tool are added
  - Relations are upgraded
  - So tool-tags and none-tool-tags can be managed by the Tag module functionality in SPF
  - Same find, same forms etc



# Demonstration time



# Q & A