



Building an Asset-Centric PI System

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What's an Asset Centric PI System?

- Organize your data based on logical or physical objects
- Add structure and relationship to your assets and data
- Find and use your data using familiar terms, not obscure tag names
- Apply domain expertise to your assets and data



Asset Centric PI System

- PI Server with PI Asset Framework (PI AF) provide an asset centric representation of your assets
- Establish relationships
 - Hierarchies, categories, references
- Standardize, common view
 - Templates for similar assets
- Provide asset relative context for PI Clients

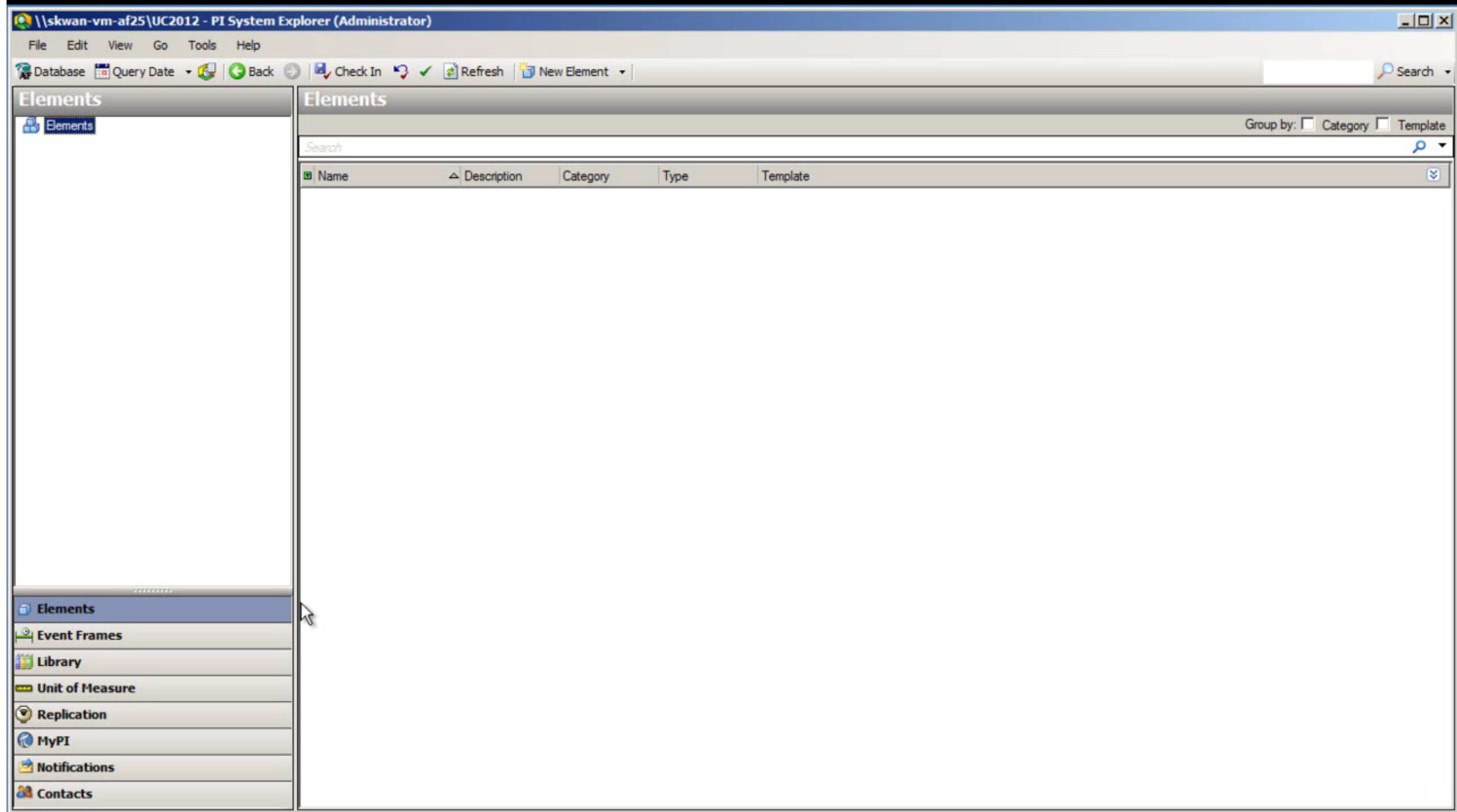
New PI System Usage Scenario

- You want to create an asset structure of several pumps in your plant
- These pumps have measurements that you want to collect and archive into your brand new PI Server
- You have installed PI Interfaces to collect data





PLEASE PAUSE FOR DEMO



Migration Usage Scenario

- You have one or more existing PI Servers
- You want to implement PI AF
- You want to reuse what you've already done and not have to redo everything
- You want to start small and build it up over time



PLEASE
PAUSE
FOR
DEMO

UC2012-Builder.xlsx - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Add-Ins PI PI AF Builder

Current PI AF Connection
AF Server: skwan-vm-af25
Database: UC2012

Database

Select All
Deselect All
Reset to Template

Delete Export

Library Elements Event Frames Refresh

Referenced Data
Transposed Data

Headers
Settings
Errors

About
Help

Export to PI AF
Import from PI AF
Resources

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Sheet1 Fan Tags

Ready

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External Data Usage Scenario

- You have other data besides time series data from PI Servers
- You want to create references to these data from PI AF
- Have everything in one place – more global view of your data
- Allows you to get more value out of your data



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\\skwan-vm-af25\NuGreen - PI System Explorer (Administrator)

File Edit View Go Tools Help

Database Query Date Back Check In Refresh New Element Search

Elements

Elements
NuGreen

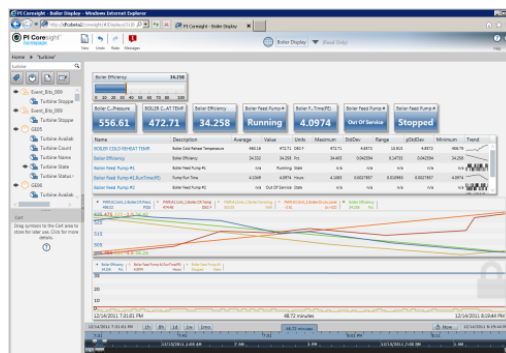
Elements

Group by: ☐ Category ☐ Template

Search

Name	Description	Category	Type	Template
NuGreen	Our Company E...	Locations	None	Enterprise

Elements
Event Frames
Library
Unit of Measure
Replication
MyPI
Notifications
Contacts
Model Analyses

[illegible]

Building an Asset Centric PI System

- Start small and get immediate value
- Expand your asset model with every use
- Use templates to ensure uniformity and enforce standards
- Use data from disparate sources to build a complete picture of your assets
- Reuse your investment in other OSIsoft products

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THANK YOU

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