

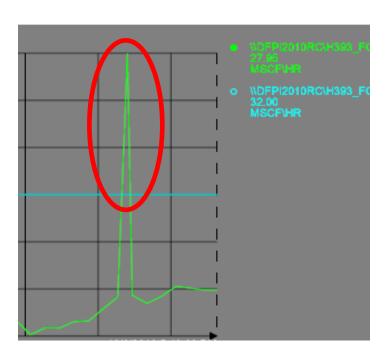
PI Notifications and PI Asset Framework

Presented by

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Not Always Watching Your Data









Receive Information about Key Events









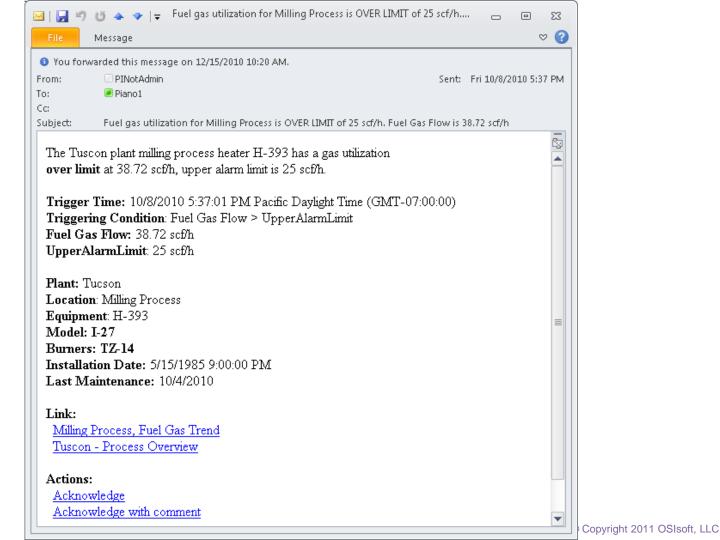


Web Services

Other Applications

PI Notifications – identify insight that requires action

- Configure trigger condition(s)
 - Comparisons, Performance Equations, Statistical Quality Control
- Specify information to be delivered
 - Customized for the recipient



PI Notifications – identify insight that requires action

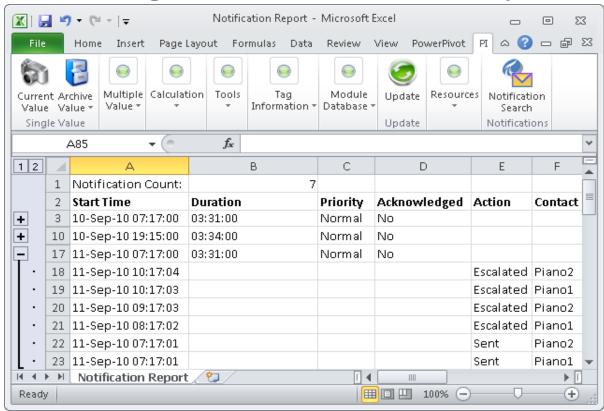
- Configure trigger condition(s)
 - Comparisons, Performance Equations, Statistical Quality Control
- Specify information to be delivered
 - Customized for the recipient
- Deliver to recipients, applications or systems when key events occur
 - Contacts or Windows users Escalate if necessary
 - Email, web service, Office Communicator





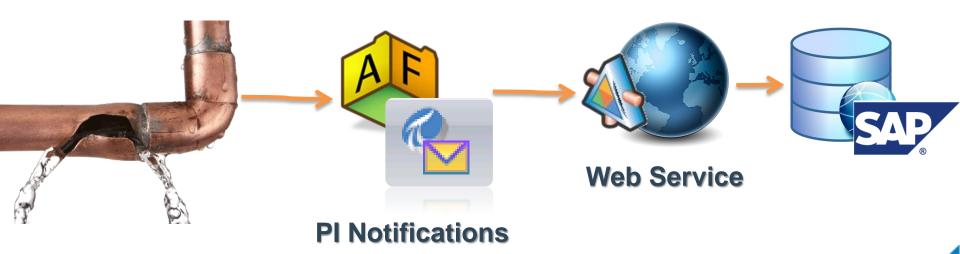
PI Notifications – Investigate notification history

- Clients for
 PI ProcessBook
 PI DataLink
 Desktop App
- Investigate problem assets



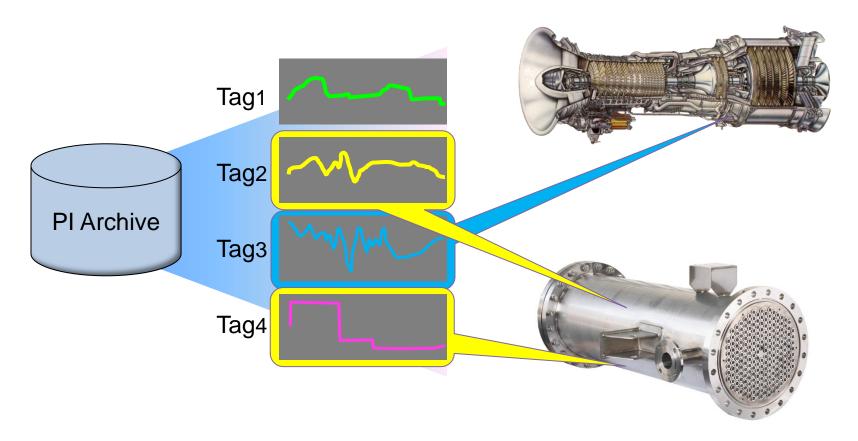
User scenario – PI Notifications to SAP

 Automatically feed a measurement point to SAP PM using PI Notifications for plant maintenance





PI Days geolerally atmparentes datasand Tags



Asset information

Monitored values

- Inlet pressure
- Inlet flow
- Ambient temperature

Event Frames

- Downtime
- Excursions



Monitored values

- Exhaust temperature
- Exhaust flow
- Measured MW output

Notifications

High temperature

Asset details

- Name
- Make
- Model

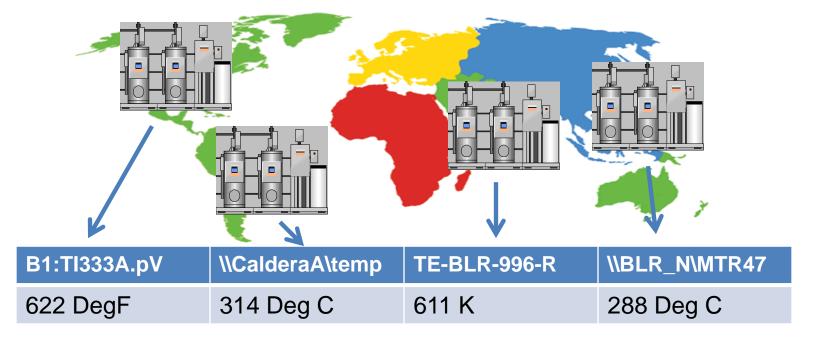
External Databases

- Performance curves
- Last service date
- Design documents
- Inspection best practice

Calculations

- Performance calculations
- KPI's

Standards and naming between sites are not always the same



- Difficult to find the same data at different sites
- Tag names may change
- Differences in units of measure

PI Asset Framework – View asset information together

- Static values
 - Name of asset
- Reference PI Tags from multiple PI Servers
- Static or external database references
 - Asset information
- Custom data references to other data sources
 - Web Services
- Configure formulas on an asset



Asset

PI Asset Framework – Standardize naming

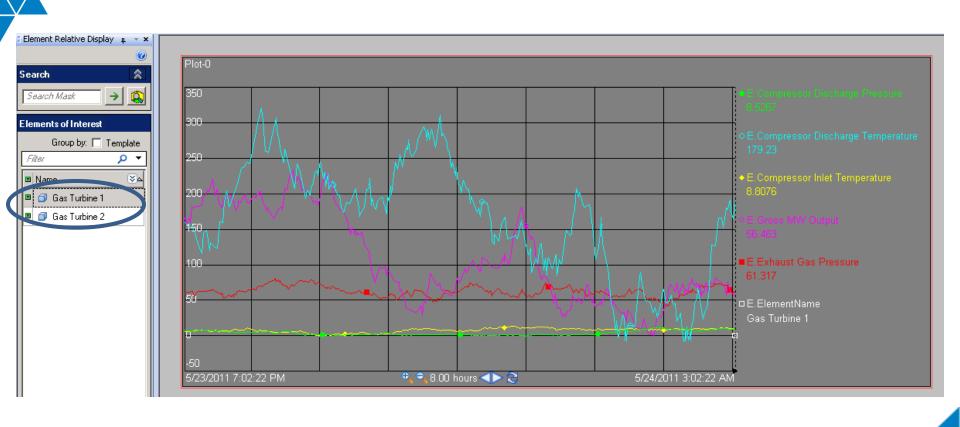
• Users reference generic names

 Gas Turbine Speed references PI Tag B1:TI333A.pV

Last Service Date
 references remote asset database

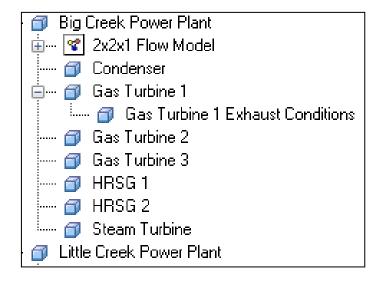
T	🍼 Gas Turbine Speed	3006.95288085938 rpm
T		260.528656005859 hp
■	🔳 In Service Date	2/25/2009 12:00:00 AM
■	🍼 Inlet Guide Vane Angle	95.78909 %
■	🍼 Inlet Pressure Loss	1.71932423114777 mbar(g)
■	Last Service Date	2/25/2011 12:00:00 AM
□	■ Manufacturer	Acme GT
T	■ Rated Power	270 MW

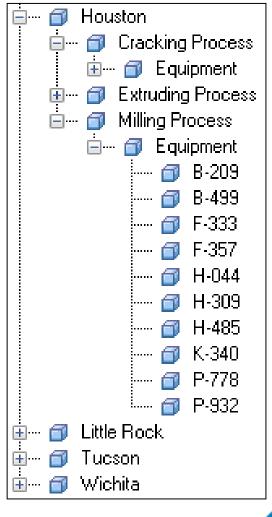
Build Once and Reuse for Similar Assets



PI Asset Framework – Organize

- Establish structure and relationships between your assets and data
- Capture domain expertise and share





Templates - Common View for Similar Assets

Configure an asset type once

Apply for new assets

Standardize and Simplify deployment





Benefits of an Asset Centric PI System

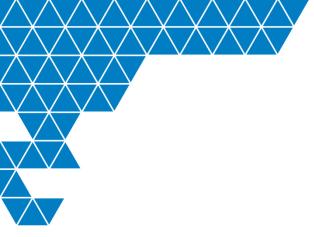
- Common asset models and relationships
 - Standardization across your entire enterprise
 - Deploy from configured templates
- Work with your assets and not points/tags
 - No need to memorize point/tag names
- Quickly and efficiently find the data you need
 - Reference asset properties to different data sources
 - Search and find information across all your data sources

Benefits of an Asset Centric PI System

- Combine disparate data in analyses and reports
 - Calculate KPI
 - Compare actual versus estimate
- Build your solution once and reuse on all similar assets
 - Element Relative Display in PI ProcessBook and PI WebParts
- Empower other PI System components
 - PI Notifications
 - Event Frames

Add value to your PI System

- PI Notifications
 - identify insight that requires action
- PI Asset Framework
 - information model to organize and structure all your data with context



Thank you