

OSIsoft®

REGIONAL 8 SEMINARS 5

The Power of Data

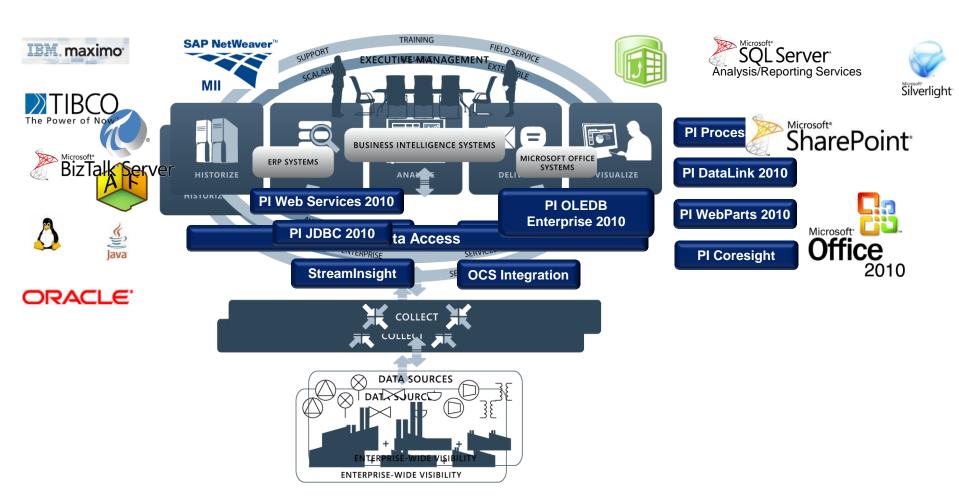


PI Asset Framework, PI Notifications

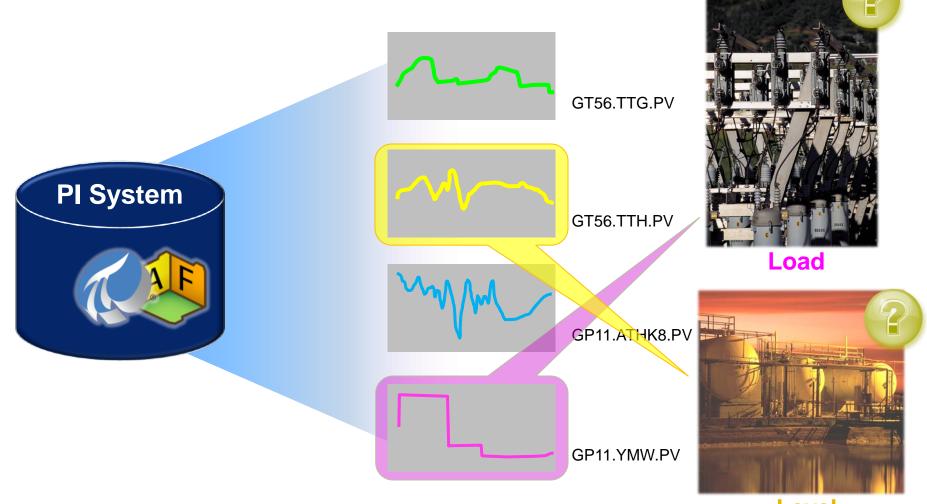
Presented by

Tadeas Marciniak, Field Service and Customer Support EMEA, OSIsoft

The PI System



Asset Framework = your vocabulary



Level

spans all your data

Data structured and organized by asset Spans multiple PI Systems
Non Time Series Data Sources
Incorporates non time series data Vendor Specific In Hon PIAF Inte Asset-Equipment Centric access to the Data **SCM MES** Honeywe

Asset Centric PI System

- PI AF provides an asset centric view of your plant
- Establish relationships
 - Build hierarchies, categories and connectivity models
 - Relate asset properties to your disparate data
- Standardize, common view
 - Templates for similar assets
- Apply domain knowledge via PI Notifications and analyzes
- Access your data via PI Data Access products

Build a Complete Picture of Your Asset

PI Tags

- Inlet pressure
- Inlet flow
- Ambient temperature



PI Tags

- Exhaust temperature
- Exhaust flow
- Measured MW output

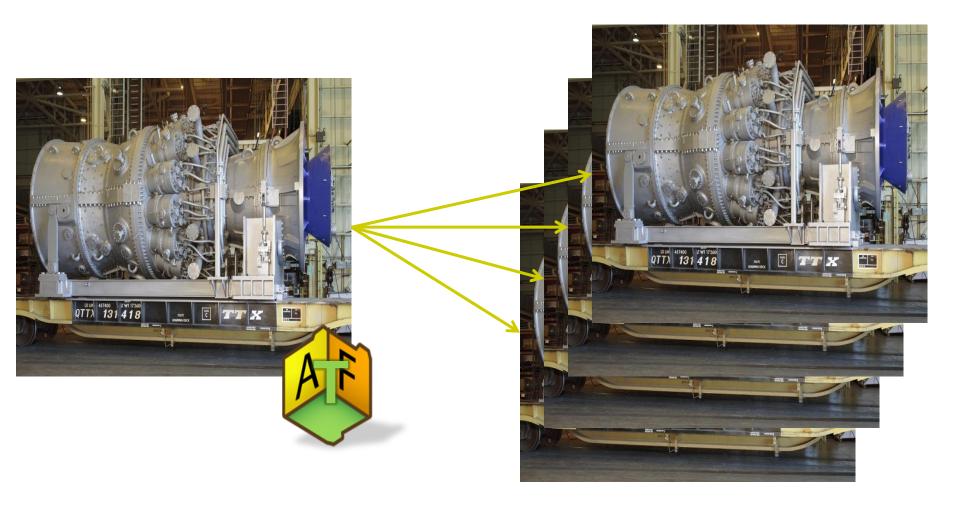
External Databases

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

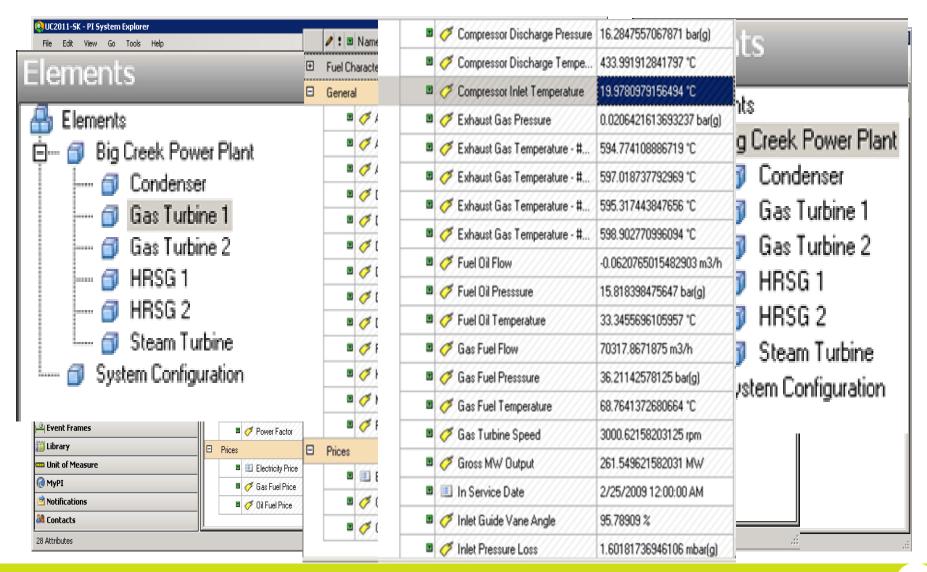
Calculations

- Performance calculations
- KPI's

Common View for Similar Assets



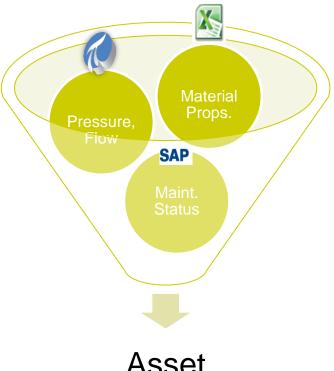
Add Value to your PI System



Add Value to your PI System

Tie asset properties to your data

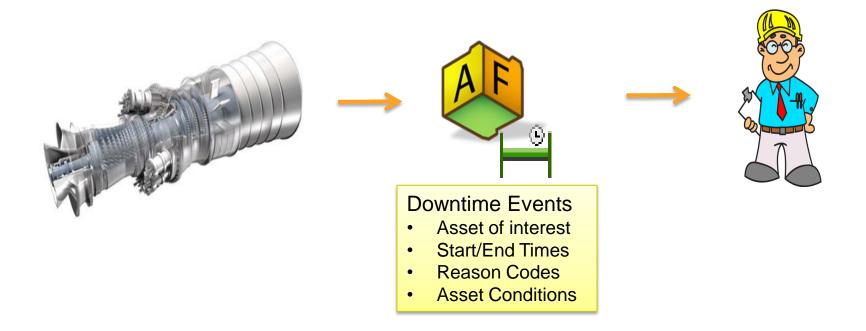
- Static values, PI Tags from multiple PI Servers, static or linked Tables
- Custom data references to other data sources



Asset

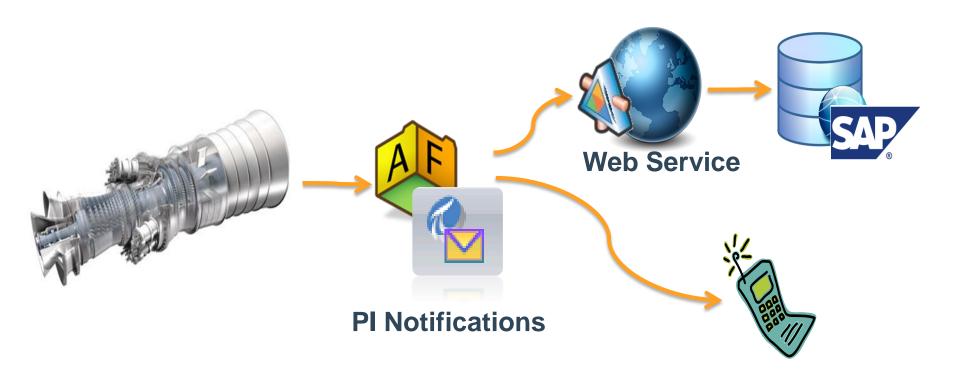
Add Value to your PI System Event Frames Are Part of Asset Framework

- GT #2 tripped again last night!!
- How many times has this happened in the last year?
- What were the operating conditions when it tripped?
- Let's find and gather all these events and analyze them.



Add Value to your PI System

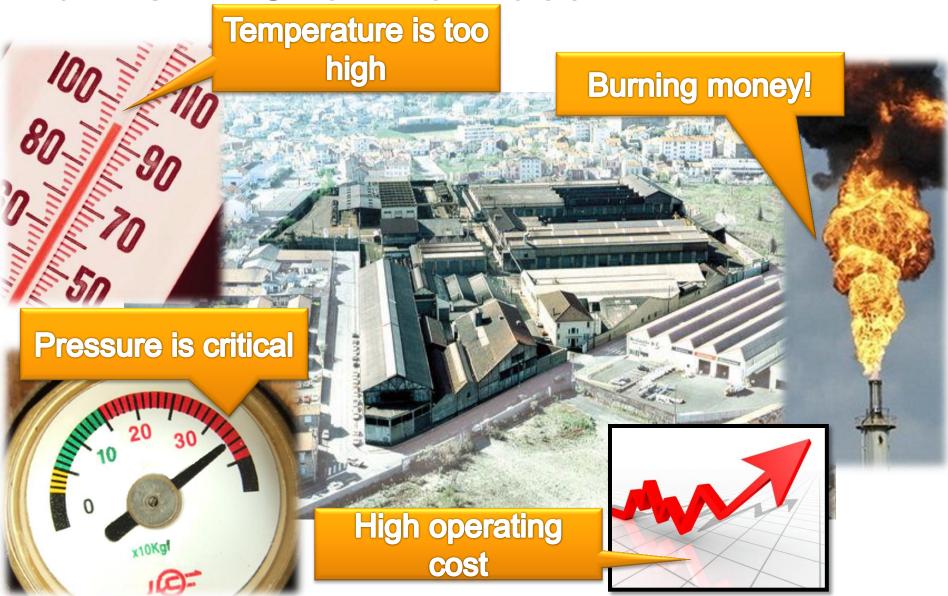
"One of GT exhaust thermocouples has been acting up... Let's keep an eye on it and create a work order for maintenance if it fluctuates more than 5% in 5 seconds. Make sure Bob is notified of this also."





PI Notifications

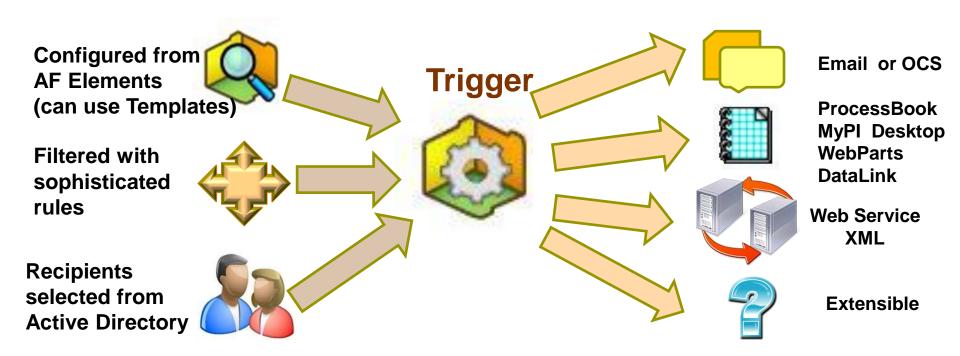
Alarms All Over the Place



Overview of PI Notifications

- Filter and analyze the ever increasing data streams in realtime
- Communicate important events to applications, systems and targeted audiences
- Leverage these events in PI Client Tools for further analysis

PI Notifications



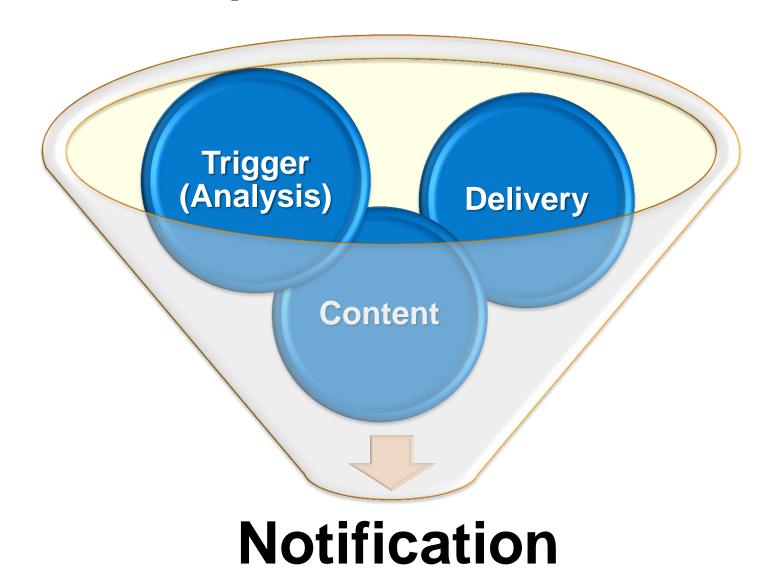
Features

- Templates
- Custom Content
- Acknowledgement and Escalation

Delivery Channels

- User can create their own
- OSIsoft vCampus XML & Skype

Base Concept of a Notification



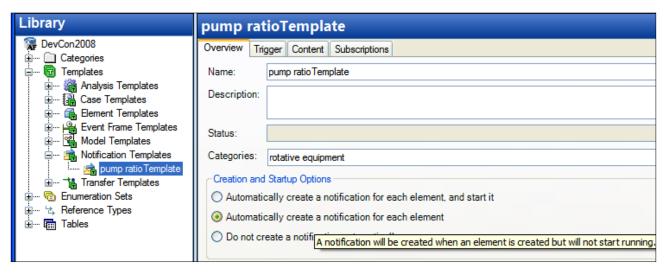
Delivery Methods

- Provide the content...
 - ...To the right applications and other systems...
 - ...To the right audience...
 - Individual person
 - Group
 - Escalation team
 - ...At the right time
- Delivery channels
 - Web service
 - E-mail
 - Office Communication Server (OCS)
 - Custom delivery channel



Within PI Notifications

Notification Templates



Notifications Rules



Office Communication Server 2007 R2

Native Delivery Channel

Supports presence and Instant

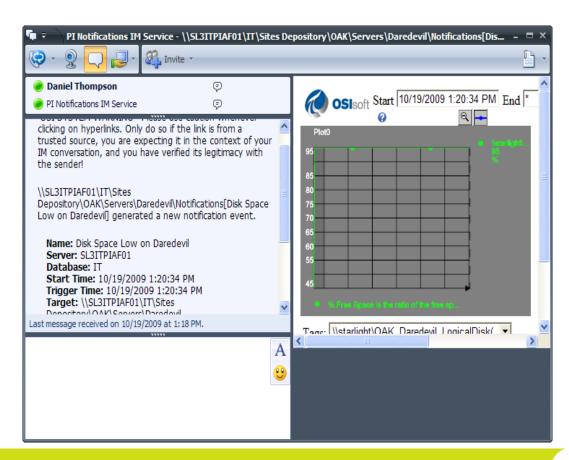
Messaging (IM)

 Applications for phones

Windows Mobile

BlackBerry

iPhone

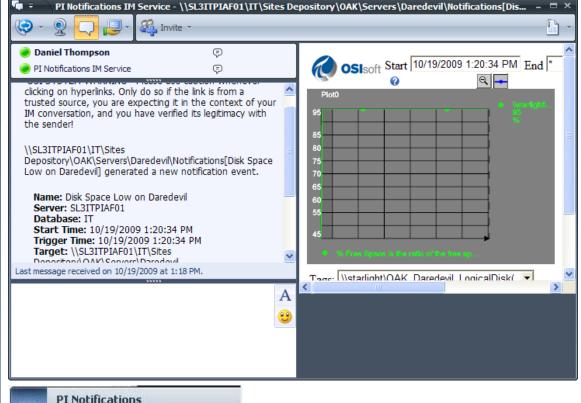


PI for Office 2010 - PI Notifications and OCS

San Jose temperature is Out of Range







Tadeas Marciniak

- tadeas.marciniak@osisoft.com
- Field Service and Customer Support EMEA
- OSIsoft Czech Republic, s.r.o.



THANK

