

OSIsoft®

USERS²⁰¹¹ CONFERENCE



Turning **insight** into **action**.

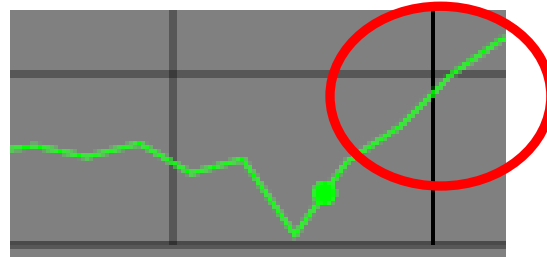
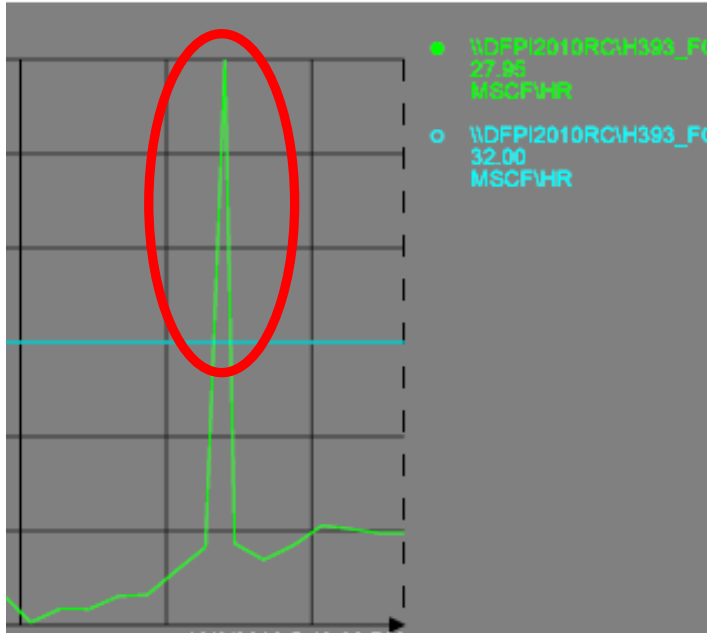


Customizing Content and Delivering Information

PI Notifications 2010 R2

Presented by **Beth McNeill and Glenn Moffett**

Not always watching your data



Receive information about key events



Web Services

Other
Applications



PI Notifications - Purpose

- Identify insight that requires action
- Specify information to be delivered
- Deliver to recipients, applications or systems

PI Notifications by Example



MyAFDB - PI System Explorer

File Edit View Go Tools Help

Database Query Date Back Check In New Element Search

Elements

- Big Creek Power Plant
 - Condenser
 - Gas Turbine 1
 - Gas Turbine 2
 - HRSG 1
 - HRSG 2
 - Steam Turbine

6 Elements

Big Creek Power Plant

General Child Elements Attributes Ports Version

Group by: ☐ Category ☐ Reference Type ☐ Template

Search

Name	Description	Template
Condenser	A generic condenser template	Condenser Template
Gas Turbine 1	A generic gas turbine template	Gas Turbine Template
Gas Turbine 2	A generic gas turbine template	Gas Turbine Template
HRSG 1	A generic HRGS template	HRSG Template
HRSG 2	A generic HRGS template	HRSG Template
Steam Turbine	A generic steam turbine template	Steam Turbine Template

PowerCo - PI System Explorer

File Edit View Go Tools Help

Database Query Date Back Check In New Element New Attribute Search

Elements

- Elements
 - Big Creek Power Plant
 - Condenser
 - Gas Turbine 1
 - Gas Turbine 2
 - HRSG 1
 - HRSG 2
 - Steam Turbine
 - System Configuration

Elements

Event Frames

Library

Unit of Measure

MyPI

Notifications

Contacts

Gas Turbine 1

General Child Elements Attributes Ports Version

Filter

Name	Value
Exhaust Gas Temperature - #4 Probe	598.9381103...
Fuel Oil Flow	-0.01655164...
Fuel Oil Pressure	15.82056903...
Fuel Oil Temperature	29.88592147...
Gas Fuel Flow	70192.64062...
Gas Fuel Pressure	36.16168975...
Gas Fuel Temperature	68.79710388...
Gas Turbine Speed	2999.187744...
Gross MW Output	260.6136779...
Humidity	-2.42124700...
In Service Date	2/25/2009 1...

Group by: ☐ Category

Name: Humidity

Description: Humidity

Configuration Item: ☐

Categories: General

Default UOM: percent

Value Type: Double

Value: -2.42124700546265 %

Data Reference: PI Point

Settings...

\\SBPI\HUMEDITY

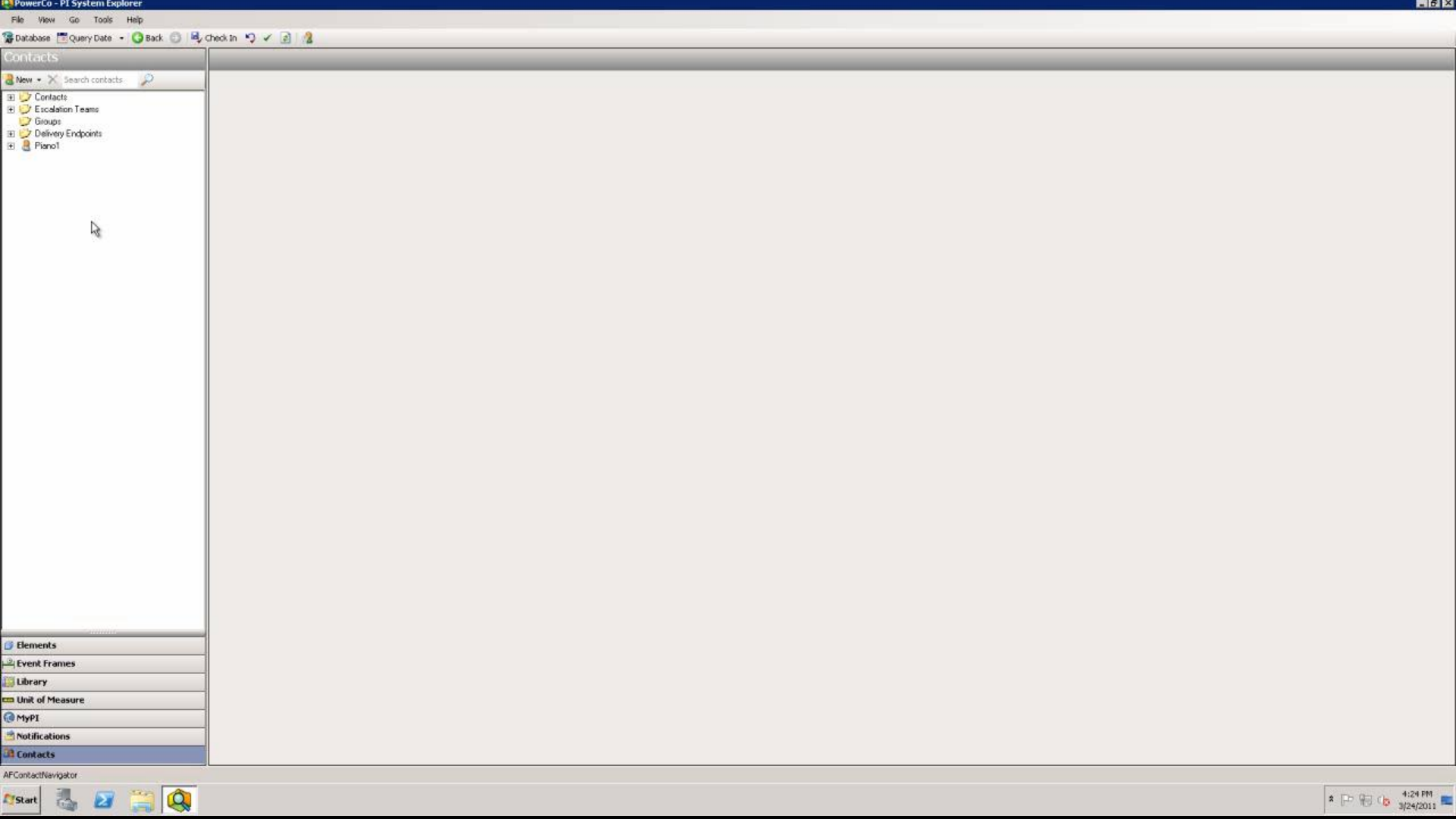
Humidity

89403068-63de-0528-3f8e-bf25998a597b

Demo



- Create a new notification
- Monitor and alert on data quality of suspect sensor



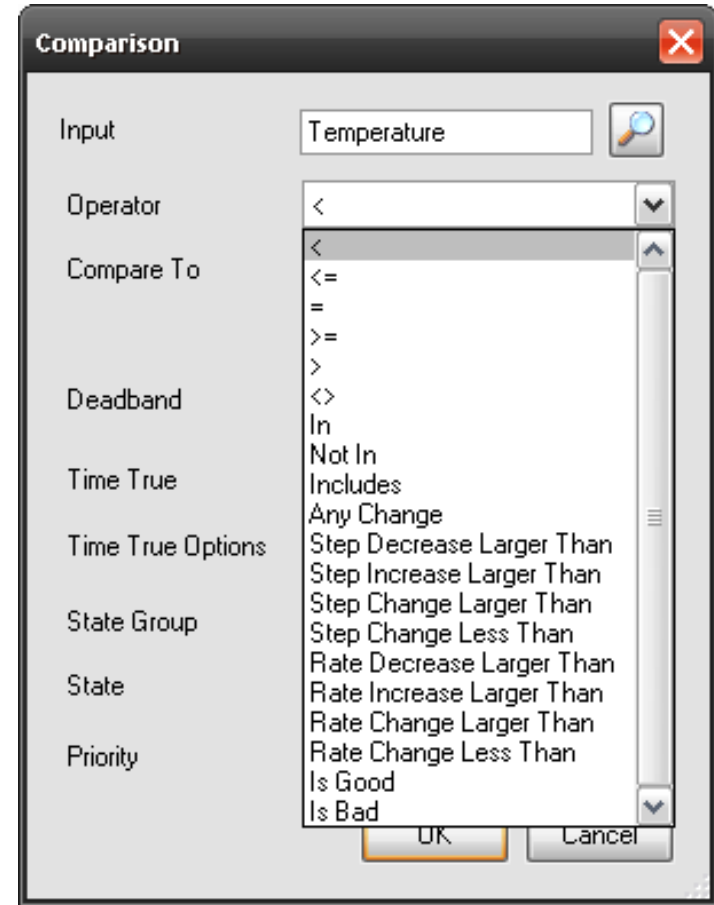
Demo



- Create a new notification
- Monitor and alert on data quality of suspect sensor

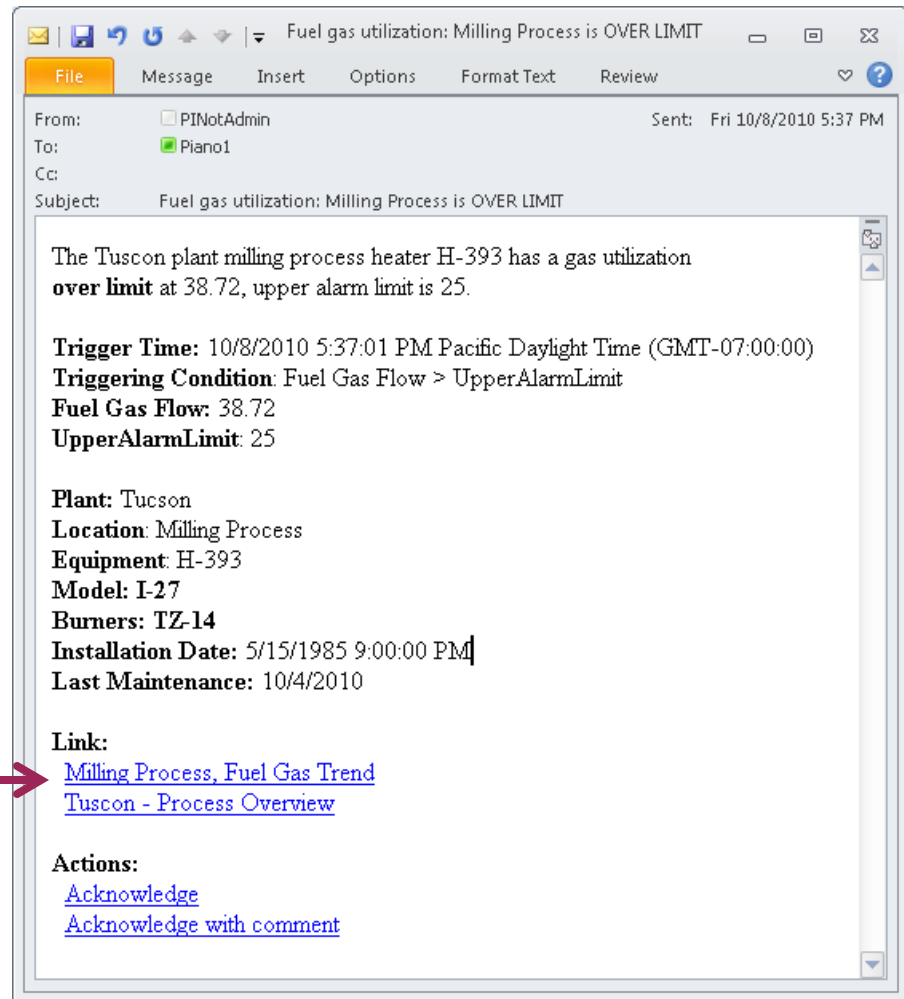
Define key events

- Comparisons
- Performance Equations
- Statistical Quality Control



Provide information

- Customize for the recipient
 - Email, phone, pager
- Provide links to content



Deliver the notification



- Specify Contacts from PI AF contacts or
- Support for email, web service and Microsoft Office Communicator



- Extensible with custom delivery channels
 - OSIsoft vCampus XML delivery channel example

Ensure key events are acted upon

- Acknowledge

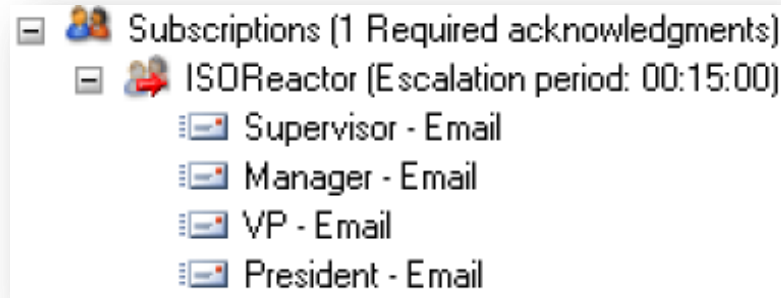
Actions:

[Acknowledge](#)

[Acknowledge with comment](#)

If no response

- Escalate

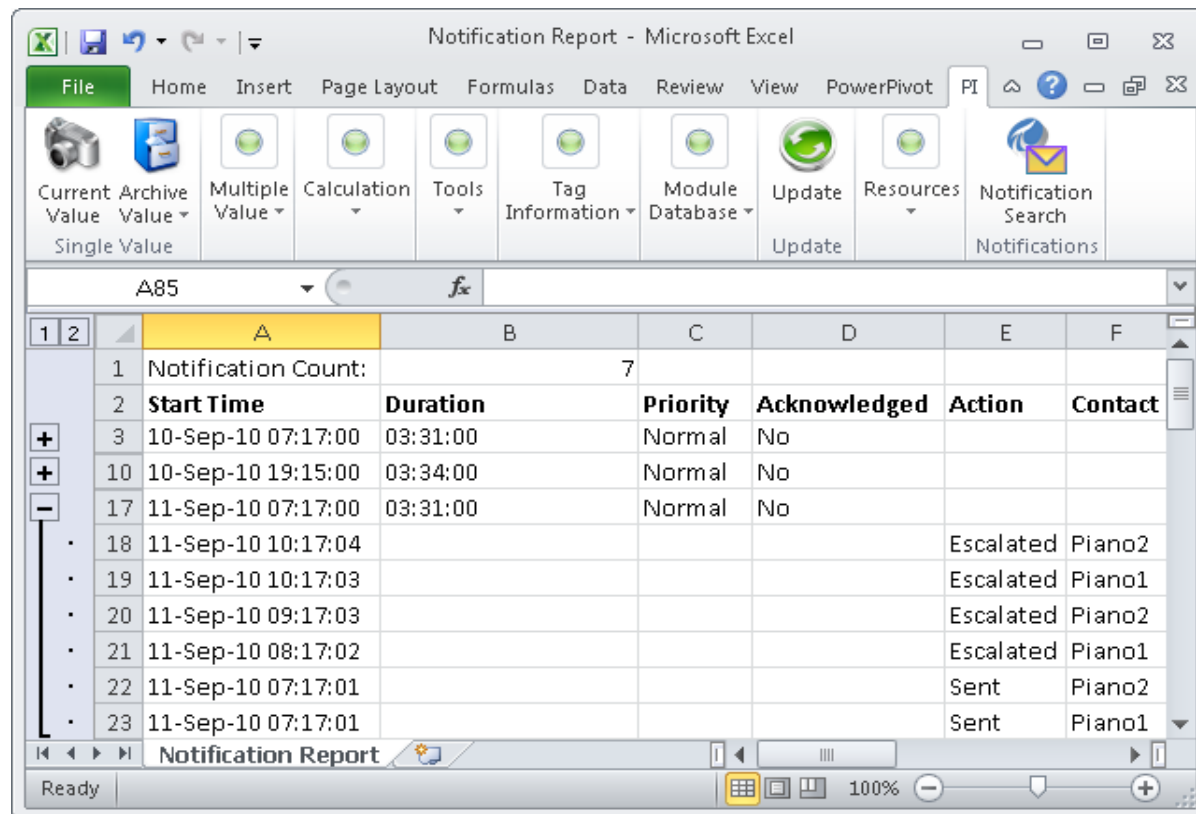


Review notifications

- PI ProcessBook
- PI DataLink
- Desktop App

**Simplify
deployment**

- Templates



The screenshot shows a Microsoft Excel spreadsheet titled 'Notification Report'. The ribbon includes 'File', 'Home', 'Insert', 'Page Layout', 'Formulas', 'Data', 'Review', 'View', 'PowerPivot', and 'PI'. The 'PI' tab is active, showing options like 'Current Value', 'Archive Value', 'Multiple Value', 'Calculation', 'Tools', 'Tag Information', 'Module Database', 'Update', 'Resources', 'Notification Search', and 'Notifications'. The spreadsheet displays a table of notification data with columns for 'Start Time', 'Duration', 'Priority', 'Acknowledged', 'Action', and 'Contact'. The first row shows a 'Notification Count' of 7. Subsequent rows list individual notifications with their start times, durations, priorities, and actions taken.

	A	B	C	D	E	F
1	Notification Count:	7				
2	Start Time	Duration	Priority	Acknowledged	Action	Contact
3	10-Sep-10 07:17:00	03:31:00	Normal	No		
10	10-Sep-10 19:15:00	03:34:00	Normal	No		
17	11-Sep-10 07:17:00	03:31:00	Normal	No		
18	11-Sep-10 10:17:04				Escalated	Piano2
19	11-Sep-10 10:17:03				Escalated	Piano1
20	11-Sep-10 09:17:03				Escalated	Piano2
21	11-Sep-10 08:17:02				Escalated	Piano1
22	11-Sep-10 07:17:01				Sent	Piano2
23	11-Sep-10 07:17:01				Sent	Piano1

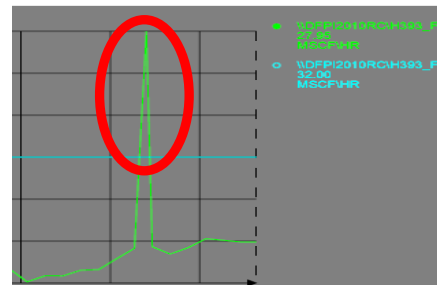
PI Notification 2010 R2

- Customize formatting for recipients and devices
- Improved history retrieval performance
- Native 64-bit Operating System support



PI Notifications

- Identify insight that requires action
- Specify information to be delivered
- Deliver key events to users and systems



More!

- 10:40am – Plaza

Using SQC & PI Notifications in Manufacturing, and
the Value of OSIsoft vCampus
- *US Steel*



Thank you

© Copyright 2011 OSIssoft, LLC.

Turning **insight**
into **action.**