

# PI Coresight 2014: Put PI ProcessBook in Your Pocket

Presented by **Hans Otto Weinhold**



OSIsoft.

# USERS 2014 CONFERENCE

The **Power** of **Data**

DECISION READY IN REAL-TIME

# What is PI Coresight?

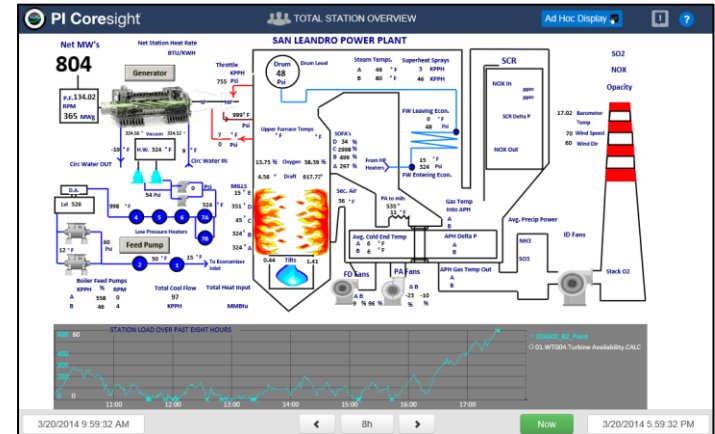
A web-based product for:

- Ad-hoc analysis
- Quick investigation
- Collaboration
- Rapid deployment



# PI Coresight 2014

## Ad hoc analysis + authored displays



# PI Coresight 2014

## Transitional release with Big New Features

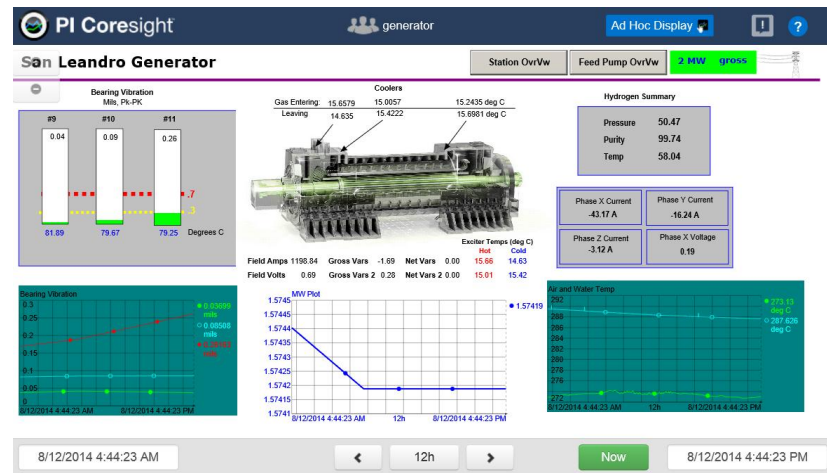
- Moving from desktop browser only to phone, tablet, and desktop
- Making PI ProcessBook (PI PB) displays available on new devices and combine them with new visualization tools
- Improving performance and scalability

# PI Coresight 2014

*I need to access my graphic displays and real-time data using any modern browser so that I can trouble shoot problems without special software installed.*

## PI ProcessBook Display Viewing

- Viewable on any modern browser
- Displays organized by import folder
- No special software needed on the client machine





# DEMO

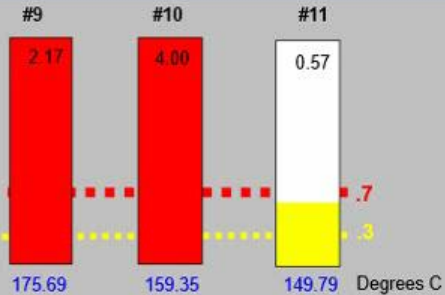


## San Leandro Generator

Station OvrVw

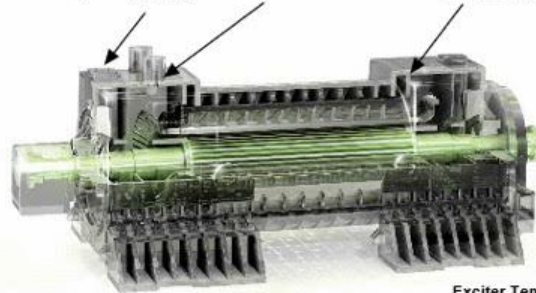
Feed Pump OvrVw

415 MW gross

Bearing Vibration  
Mils, Pk-PK

Coolers

Gas Entering:	41.0442	43.2864	47.163 deg C
Leaving	33.1197	30.7904	30.815 deg C



Hydrogen Summary

Pressure	58.45
Purity	99.74
Temp	100.25

Phase X Current	10004.75 A
-----------------	------------

Phase Y Current	10120.26 A
-----------------	------------

Phase Z Current	9837.21 A
-----------------	-----------

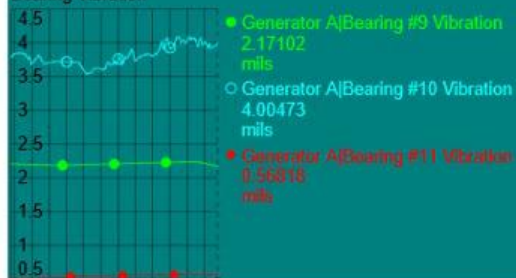
Phase X Voltage	114.22
-----------------	--------

Exciter Temps (deg C)

Hot Cold

Field Amps	2927.26	Gross Vars	89.45	Net Vars	84.24	41.04	33.12
Field Volts	225.75	Gross Vars 2	89.77	Net Vars 2	82.82	43.29	30.79

Bearing Vibration



MW Plot



Air and Water Temp



3/21/2014 5:46:16 AM



12h



Now

3/21/2014 5:46:16 PM



# Difference between web and native viewing

## Not supportable on the web:

- VBA script
- ActiveX Controls

## Different interaction:

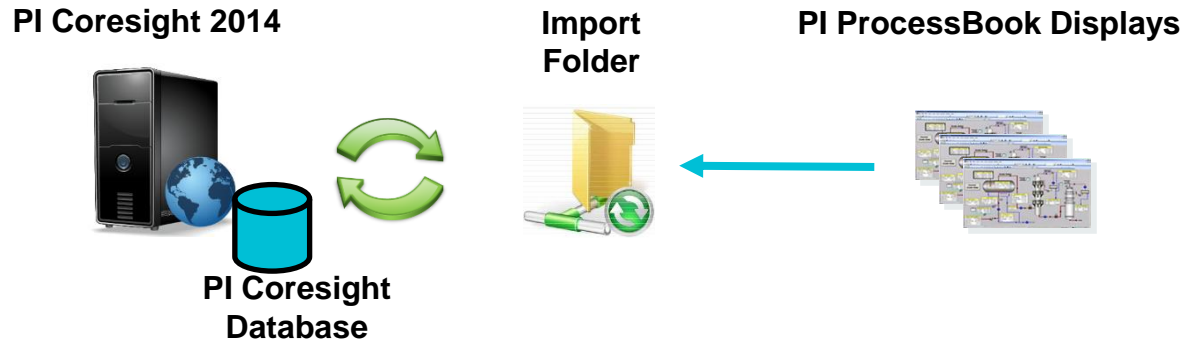
- One time range
- Element Relative Displays with URL

## Not in PI Coresight 2014:

- Trend Cursor, Trend Zoom
- Unsupported Symbols
  - Batch View
  - SQC Chart
  - XY Plot
  - Logarithmic scale
  - Regression line on a trend
- ODBC datasets

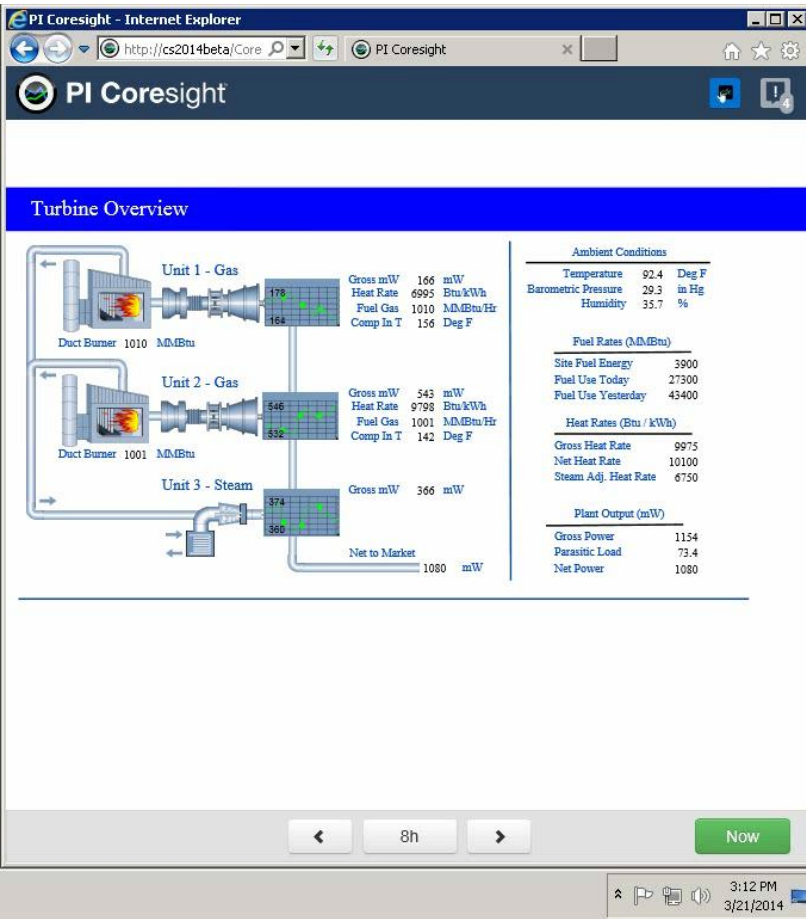
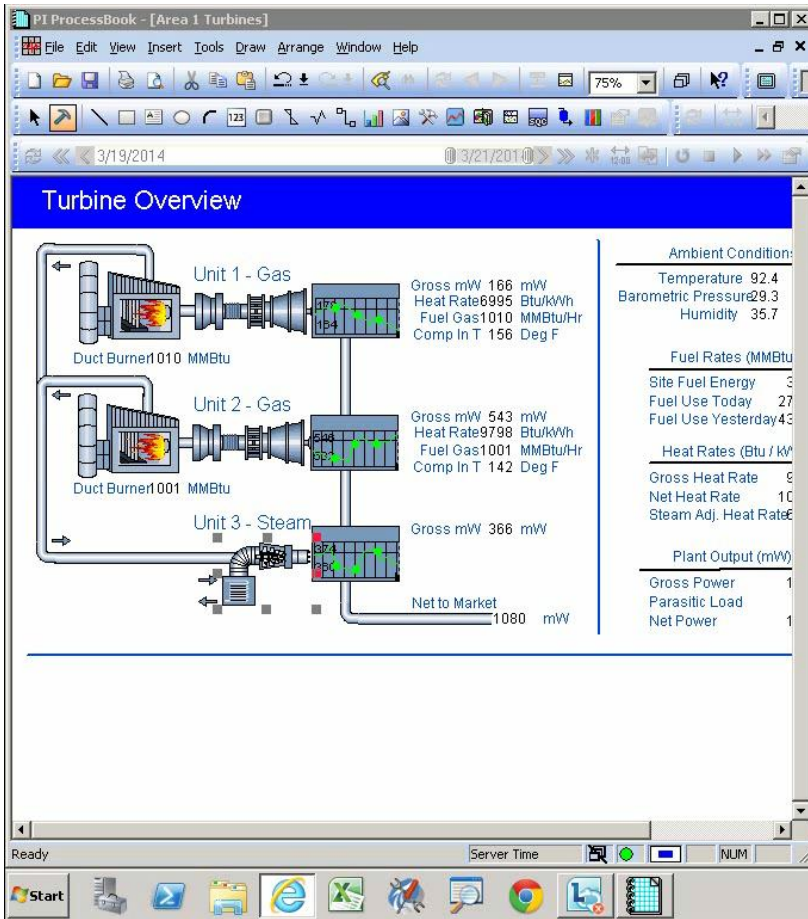
# Easily Make Displays Available

- Save PI ProcessBook file in PDI or SVG format
- Automatically organized by folder structure
- Displays are automatically imported and/or updated





# DEMO





Wichita Cracking

Wichita Distilling

Wichita Extruding

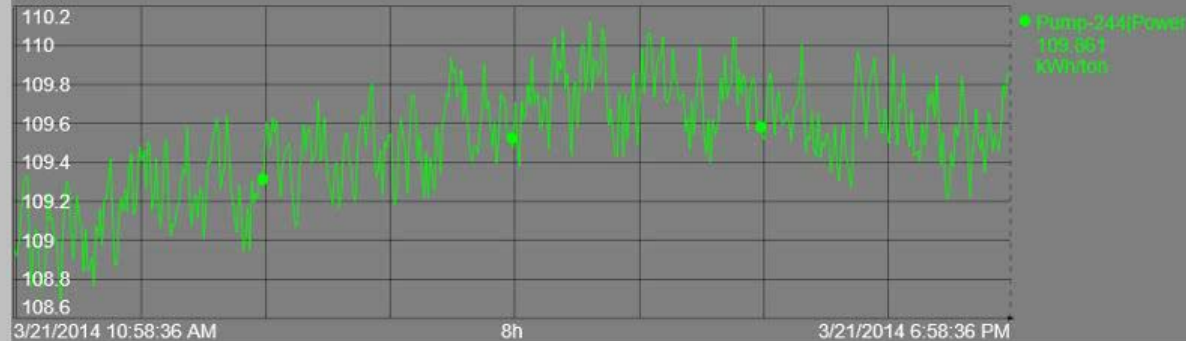
Element Path  
\\DFPIAF\OS\soft Enterprises CS\Wichita\Extruding Process\Pump-244  
3/21/2014 6:58:36 PM

Element Name  
Pump-244

Pump-244|motor amps  
29.0779 A

Pump-244|power  
109.861 kWh/ton

Plot-0



<http://74.217.101.218/coresight/#/P8Displays/19?CurrentElement=\\DFPIAF\OS\soft Enterprises CS\Wichita\Extruding Proce...>

3/21/2014 10:58:36 AM



8h



Now

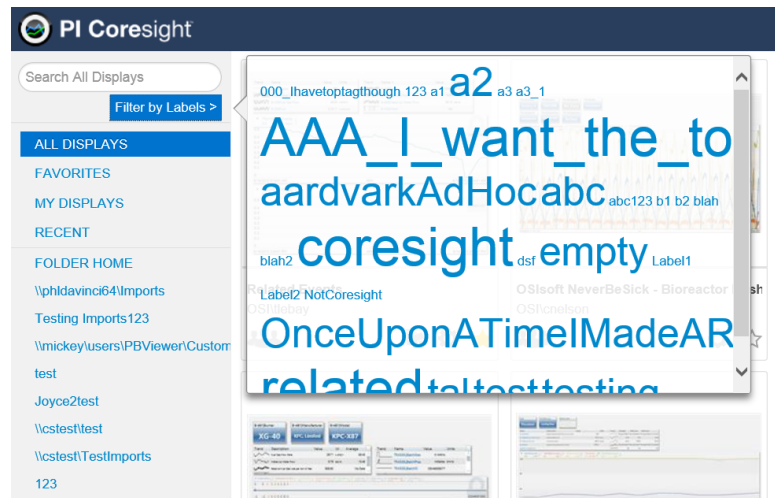
3/21/2014 6:58:36 PM

# PI Coresight 2014

*I need to quickly filter the list of displays to see only the ones I am interested in so I don't waste time hunting for what I want.*

## New Home Page

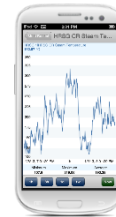
- Available using any modern browser
- Find and open native PI Coresight or PI PB displays
- Organize displays with folders or labels
- Administrator can manage any display



# PI Coresight on mobile devices

*Quickly Find and Use PI System Data using Small Form Factor Devices*

- Fast and easy access to PI System data
- View PI ProcessBook displays
- Designed for small screens
- Viewable on any device

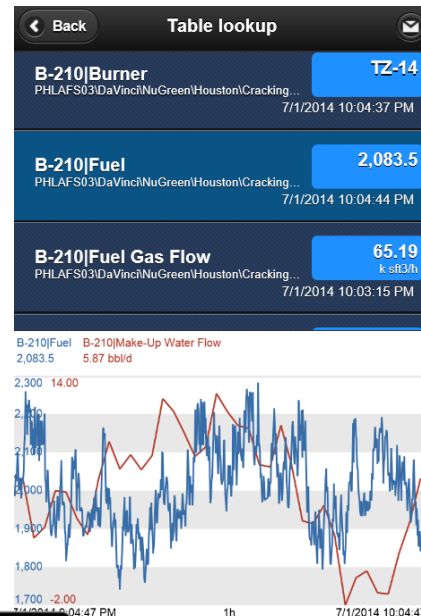


# PI Coresight 2014

*I need access to my data and displays from anywhere and with any device, so I can solve problems even before I get there.*

## Mobile site

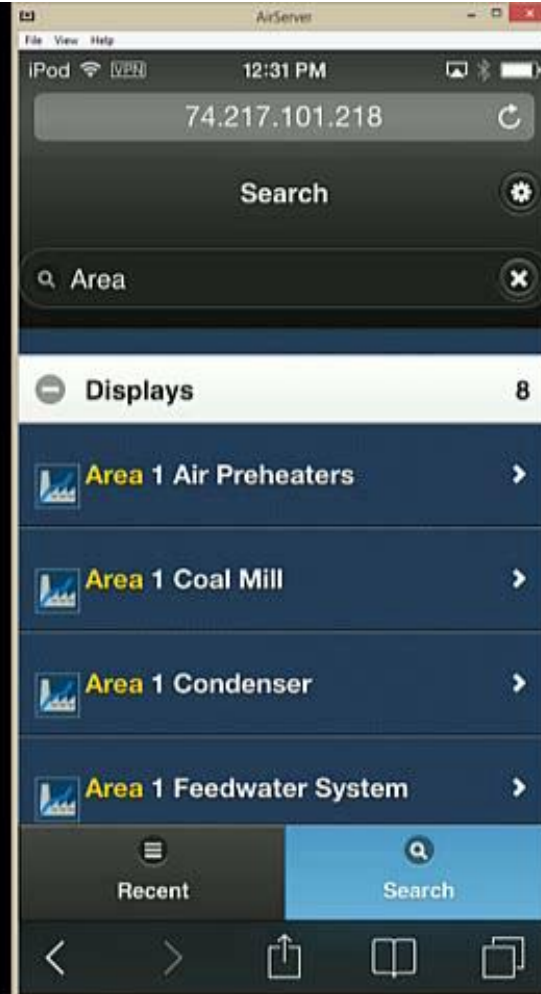
- Automatically displayed on small screen devices
- Find and display native PI Coresight and PI PB displays
- Full display, data item, and asset search







# DEMO

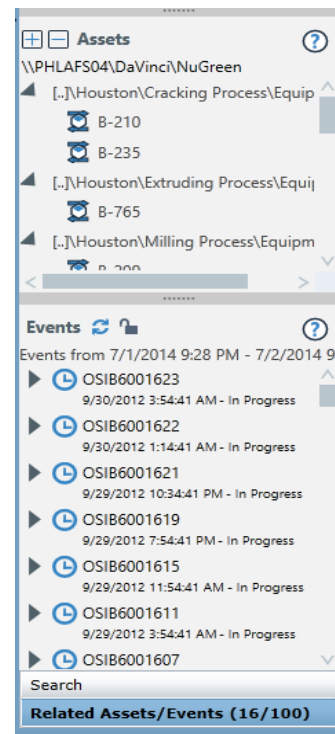


# PI Coresight 2014

*I need to search against millions of assets or events and return search results within seconds so I can solve problems in a timely manner.*

## Search service

- Returns search results in a fraction of the time compared to previous versions
- Functional with larger PI AF and PI EF databases
- Infrastructure to deliver new abilities

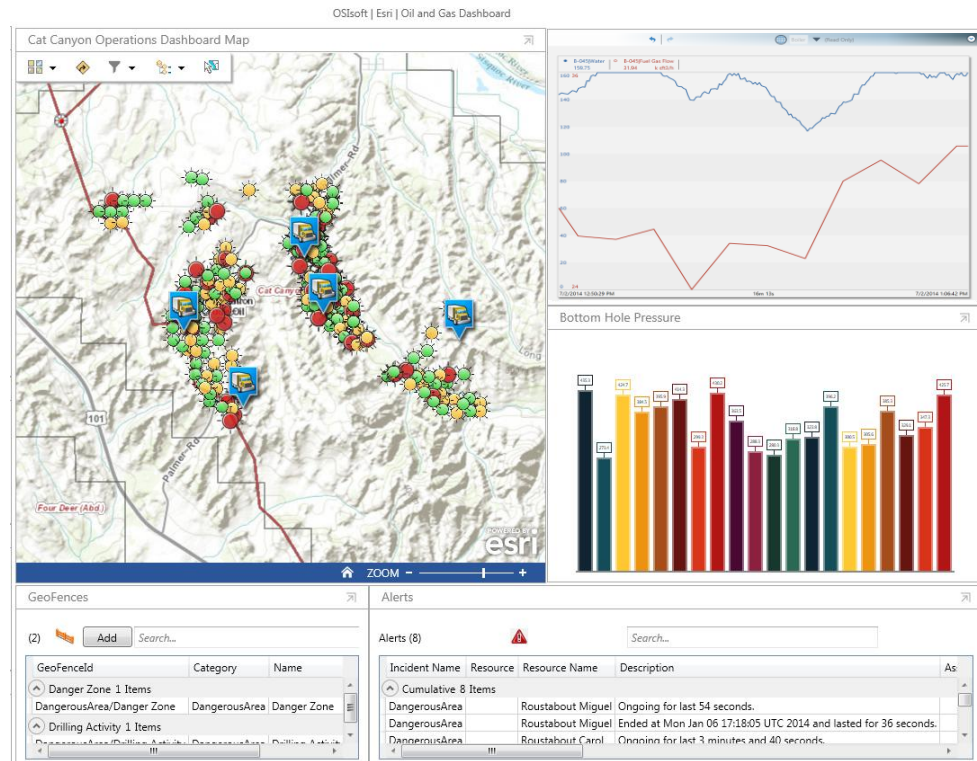


# PI Coresight 2014

*I need to integrating PI Coresight with business applications and portal sites to get a complete view of operations.*

## New URI parameters

- Hide Toolbar, Timebar
- Set element of interest for PB displays
- Set time zone for the current display



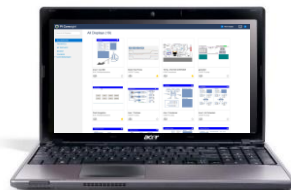
# What works where?

Desktop browser  
only



Displays built  
in PI Coresight

Any modern browser



Homepage



Mobile site






PI PB Displays

Native Apps



iPad  
iPhone

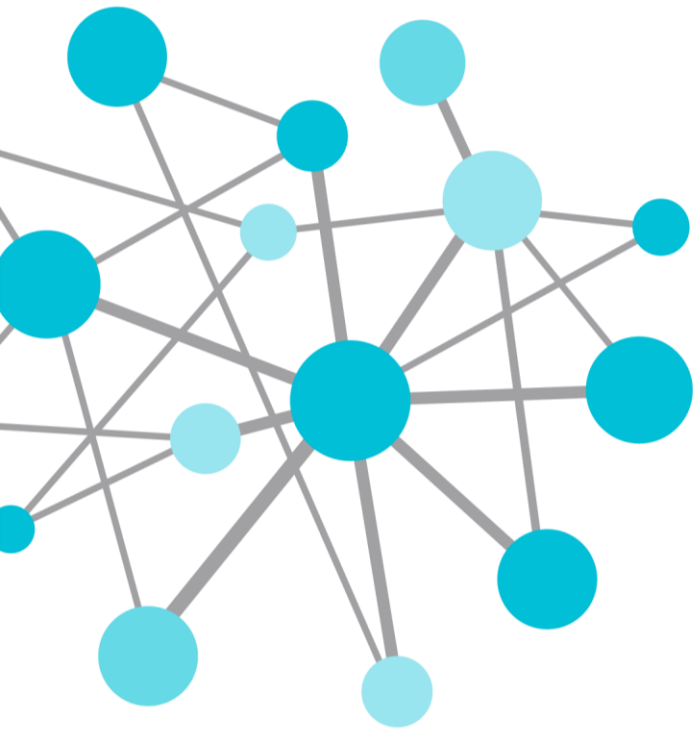
2013	2014		2015		FUTURE
	1H	2H	1H	2H	See PI System Roadmap on Tech Support site for updates
 <b>PI Coresight 2013</b> <i>Related Events</i>		 <b>PI Coresight 2014</b> <i>PI ProcessBook</i> <i>Display Viewing</i> <i>Mobile web site</i>		 <b>PI Coresight 2015</b> <i>Future Data support</i> <i>Overlay trend and asset</i> <i>comparison table</i>	

**NOTE: Future dates & plans are subject to change. Last Updated: 09-20-2014**

# Hans Otto Weinhold

[Hans-otto@osisoft.com](mailto:Hans-otto@osisoft.com)

Senior System Engineer  
OSIsoft Europe GmbH



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