Information on the Spot- PI data on my device

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What is PI Coresight?

A web-based product for:

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

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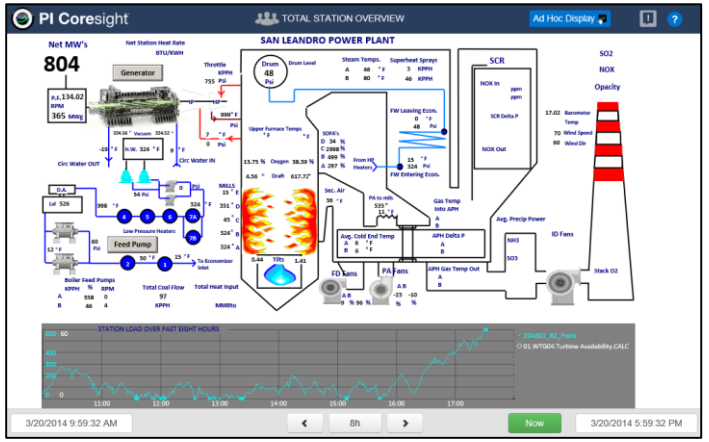
PI Coresight 2014

Ad hoc analysis + authored displays



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PI Coresight 2014

Transitional release with Big New Features

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

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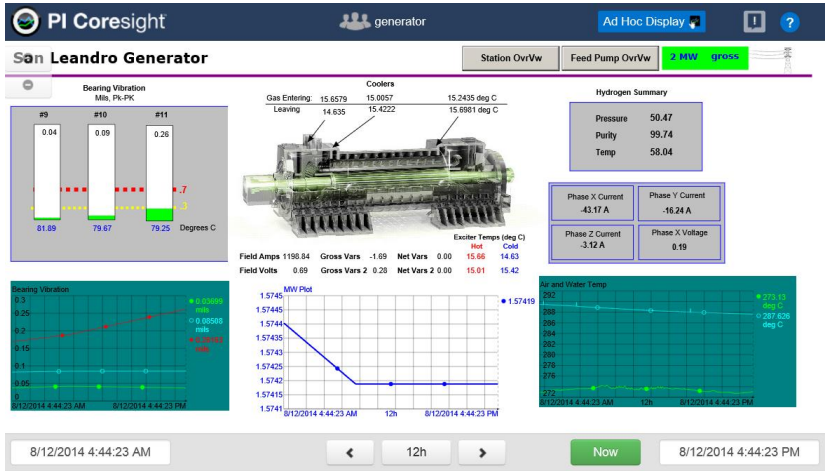
PI Coresight 2014

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



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DEMO

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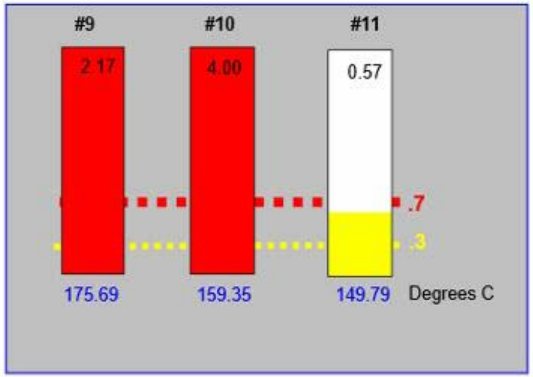
San Leandro Generator

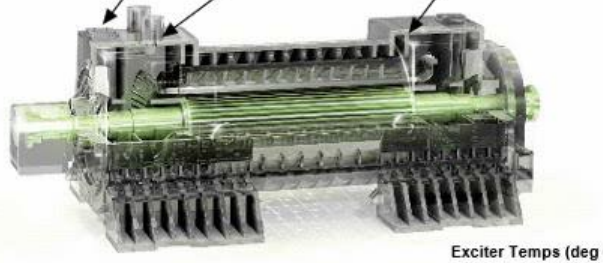
Station OvrVw | Feed Pump OvrVw | 415 MW gross

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

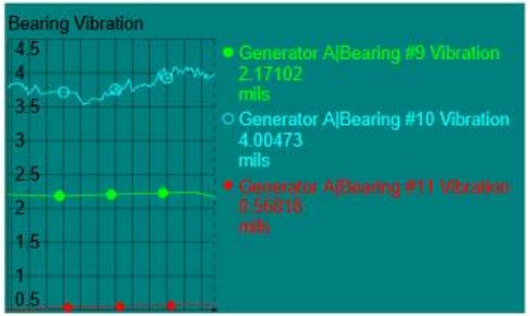


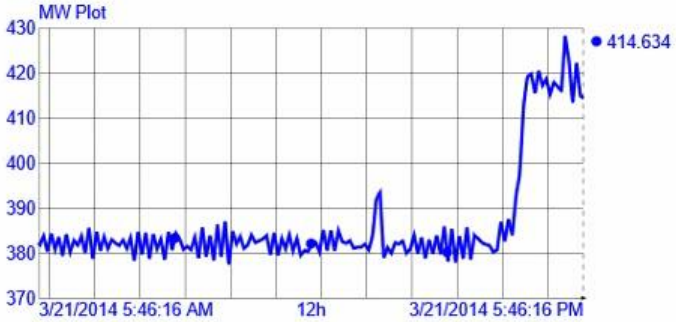
Hydrogen Summary

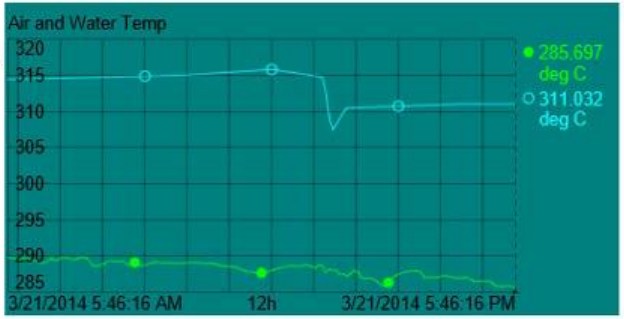
Pressure	58.45
Purity	99.74
Temp	100.25

				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

Phase X Current	Phase Y Current
10004.75 A	10120.26 A
Phase Z Current	Phase X Voltage
9837.21 A	114.22







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

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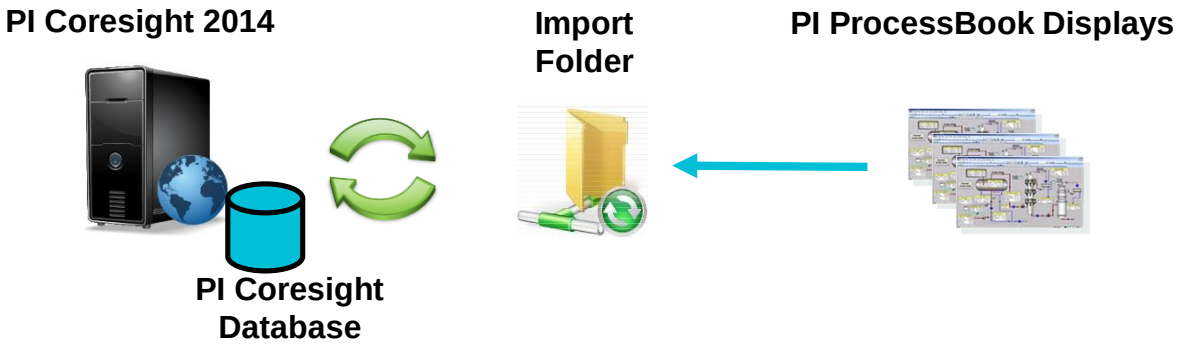
Easily Make Displays Available

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



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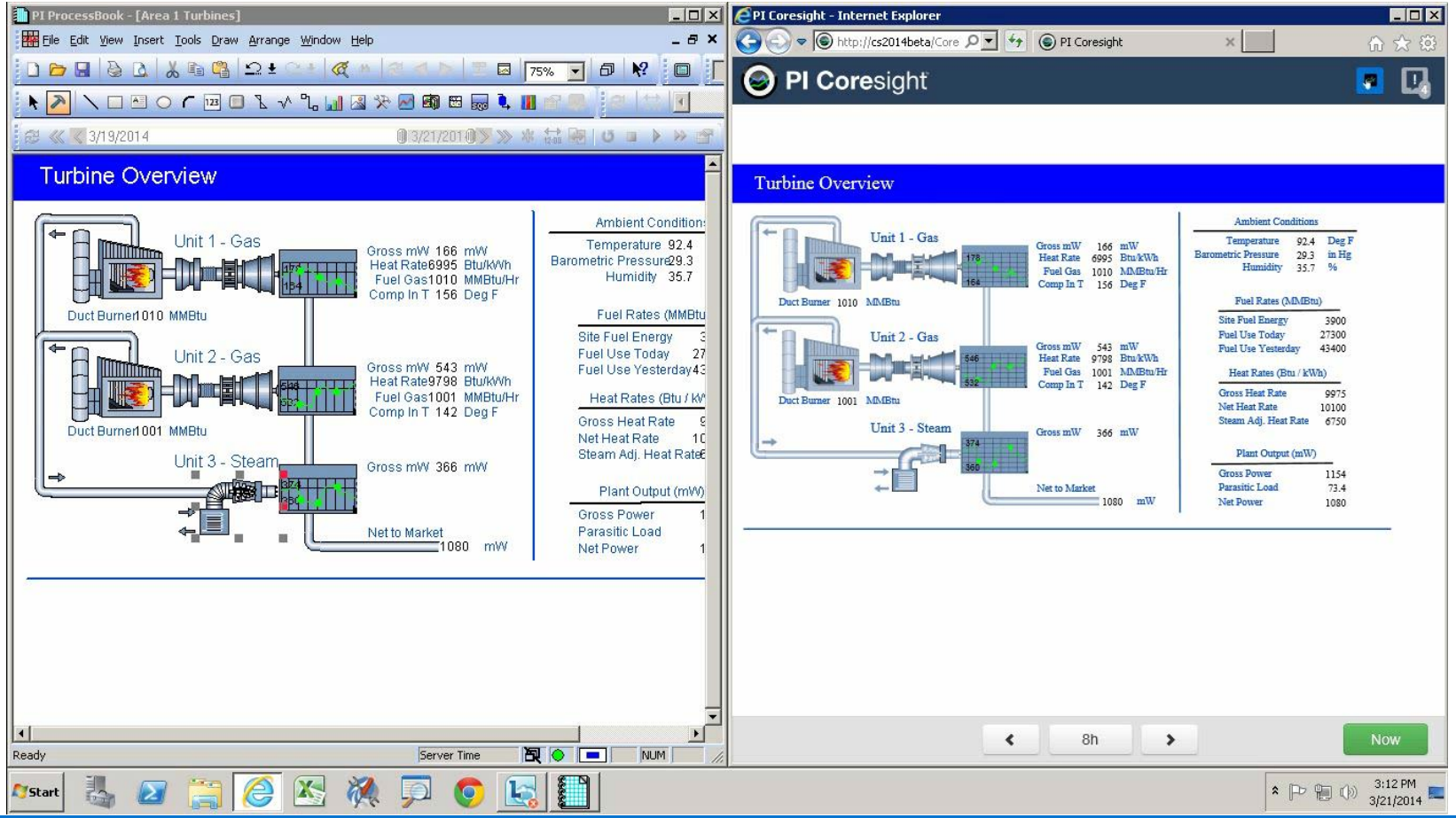

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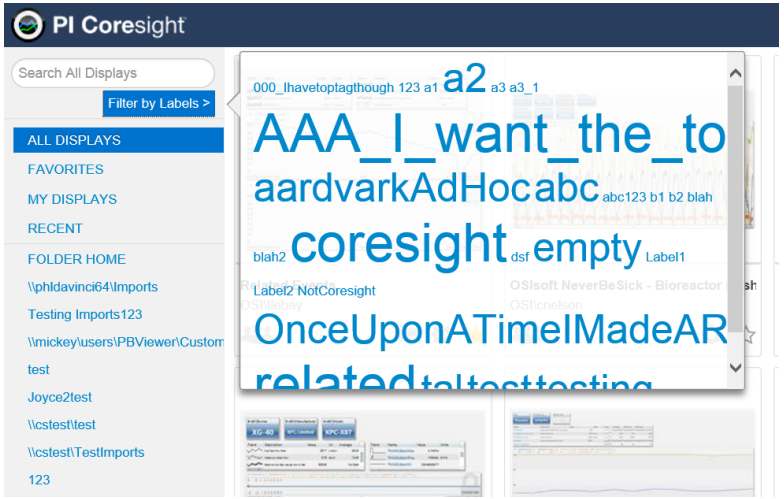
PI Coresight 2014

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 Coresight or PB displays
- Organize displays with folders or labels
- Administrator can manage any display



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PI Coresight on mobile devices

Quickly Find and Use PI 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

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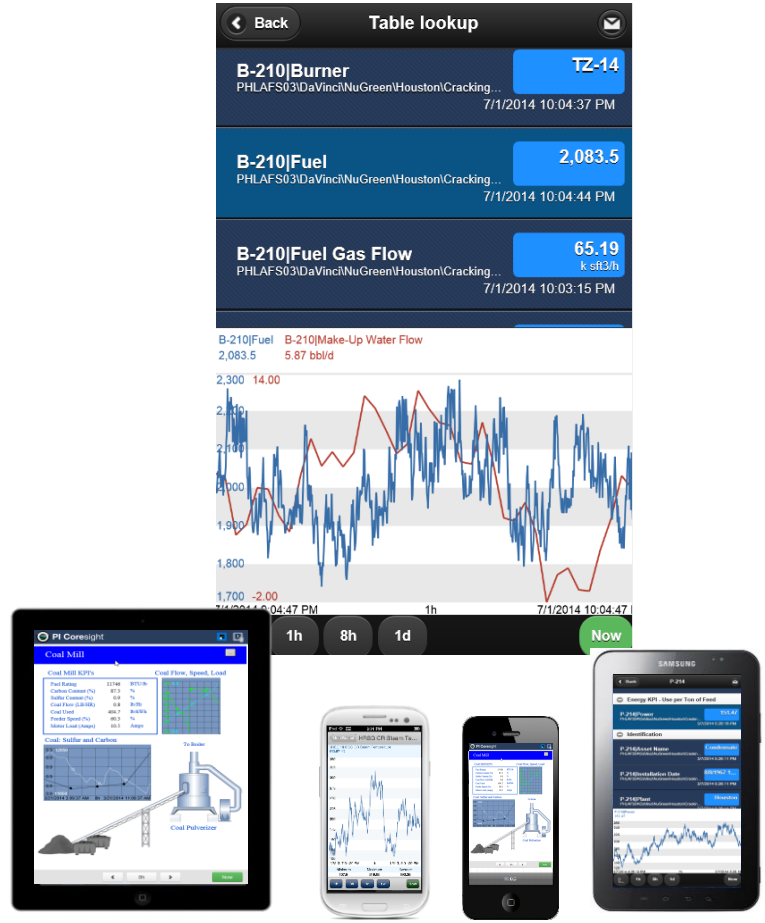
PI Coresight 2014

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 Coresight and PB displays
- Full display, data item, and asset search



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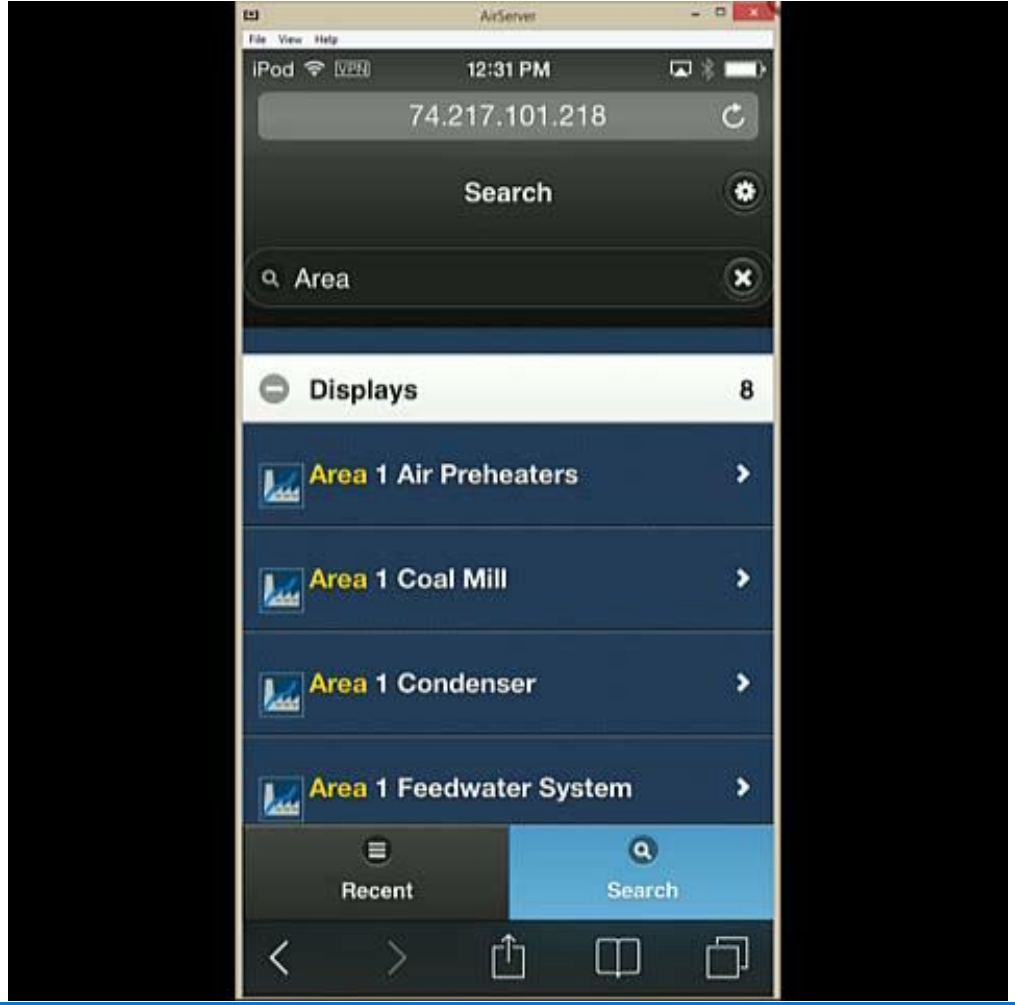

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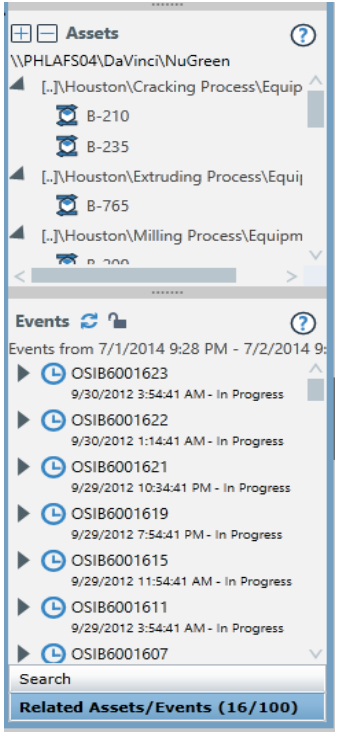
PI Coresight 2014

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 AF and EF databases
- Infrastructure to deliver new abilities



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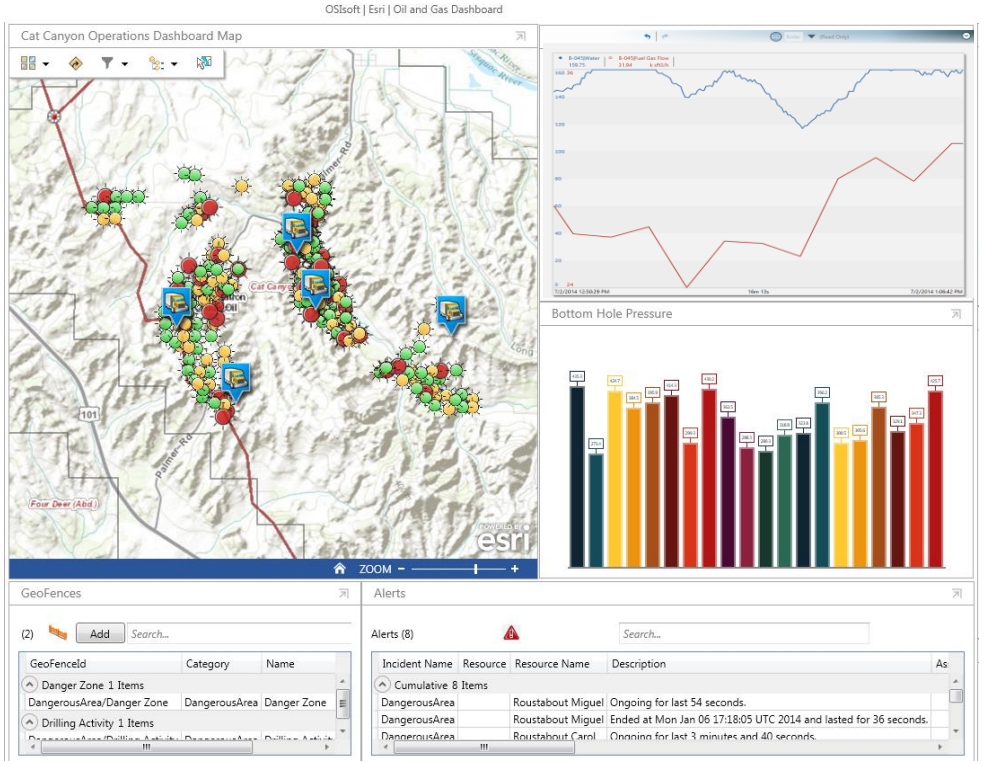
PI Coresight 2014

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



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What works where?

Desktop browser only

Displays built in PI Coresight

Any modern browser

Homepage

Mobile site

PB Displays

Native Apps

iPad
iPhone

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What‘s next?
PI Coresight 2015 and beyond

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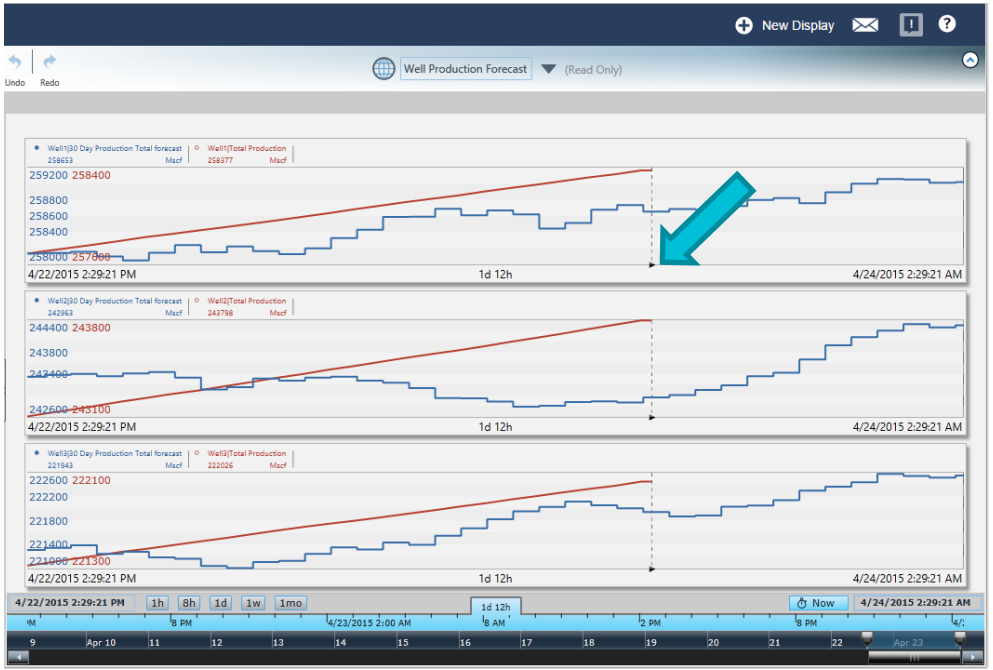
Future Data in PI Coresight 2015

1. Current Time indicator
2. Actual vs. Forecast- everything updates!



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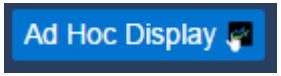
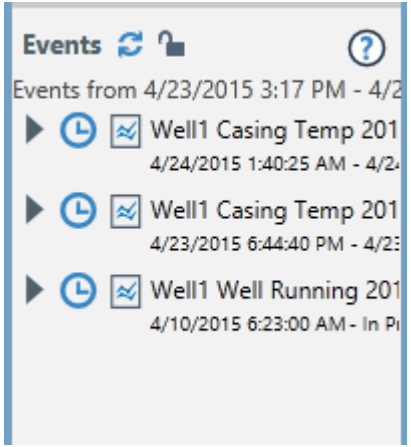
Just Future Data?

- Ad hoc display- all visible data items moved to a table
- Related Events- based on data items and time range
- Email link- using local mail client





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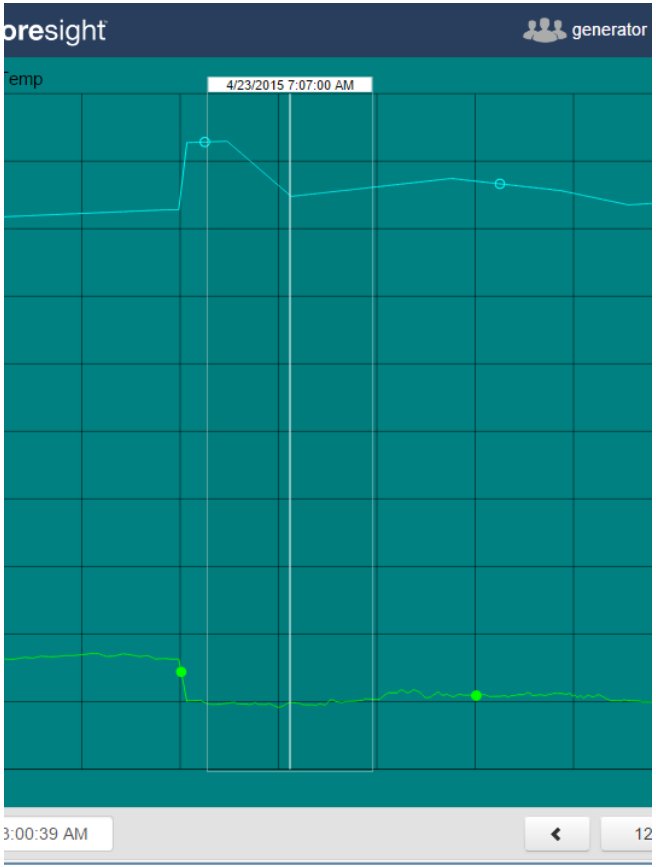
PB Trend Cursor in PI Coresight

- PI ProcessBook trend cursor
  - Available on pop-up trend
  - Click/tap to place
  - Drag to move or delete



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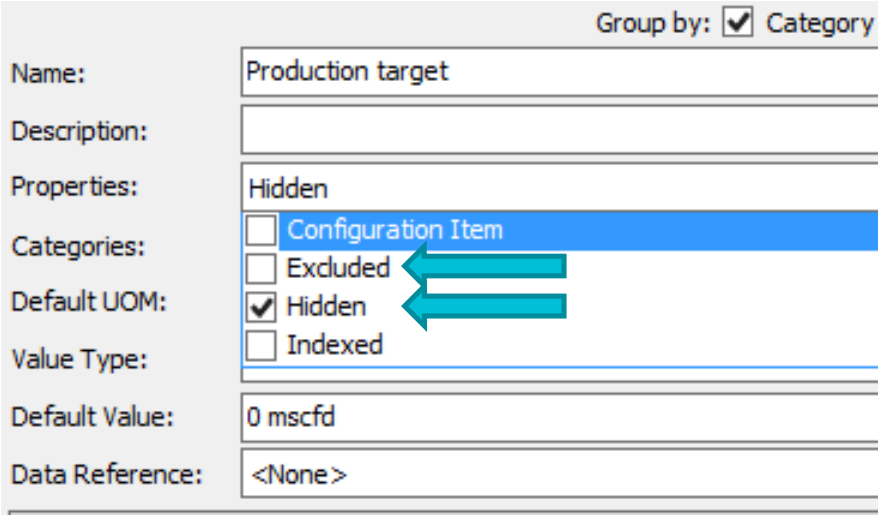
Show only important data items – PI AF 2015

- Hidden property
  - Not returned by PI Coresight search
  - Still returns a value if already on a display
- Excluded property
  - Not returned by PI Coresight search
  - Does not return a value if already on a display



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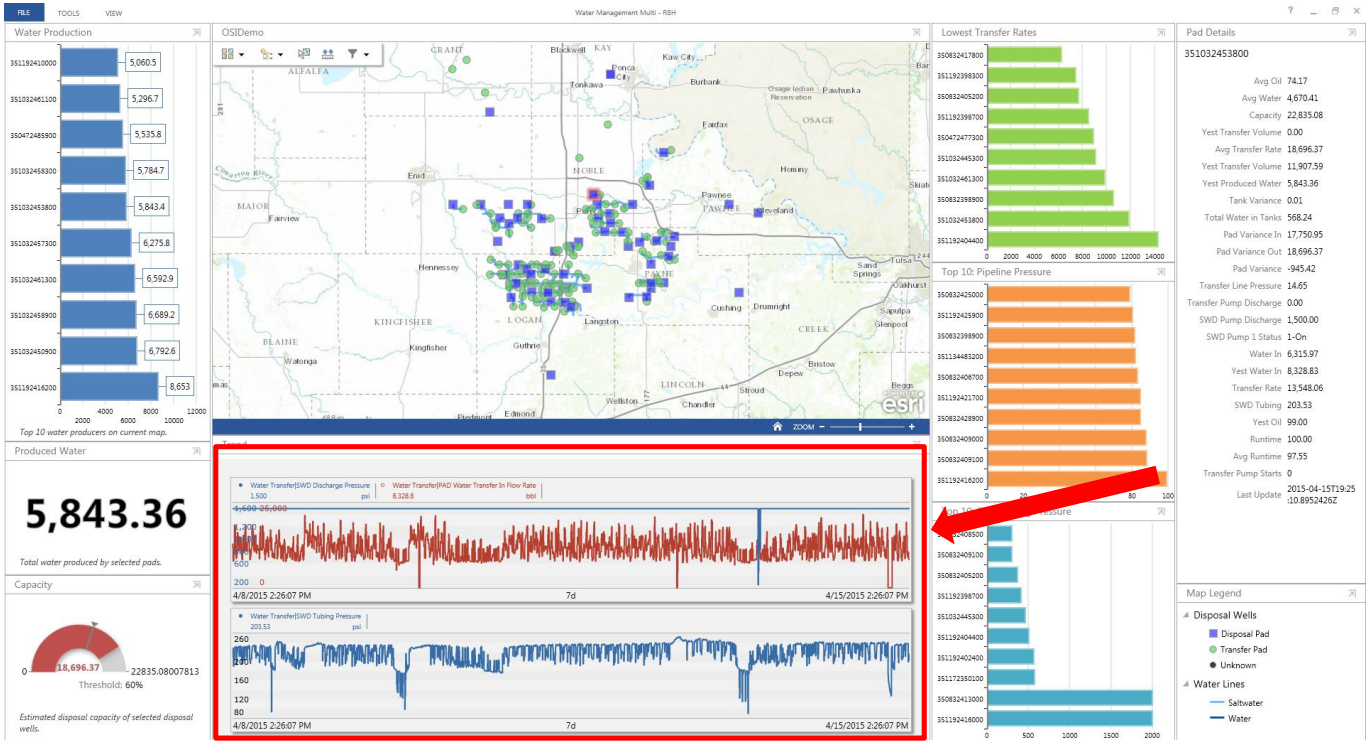
The power of integration

Esri Operations dashboard at Devon Energy



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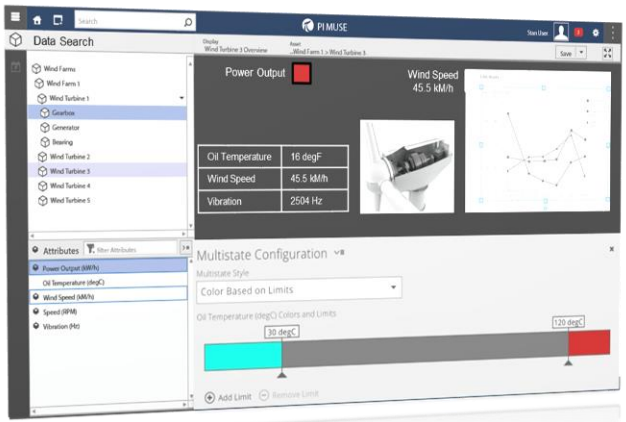
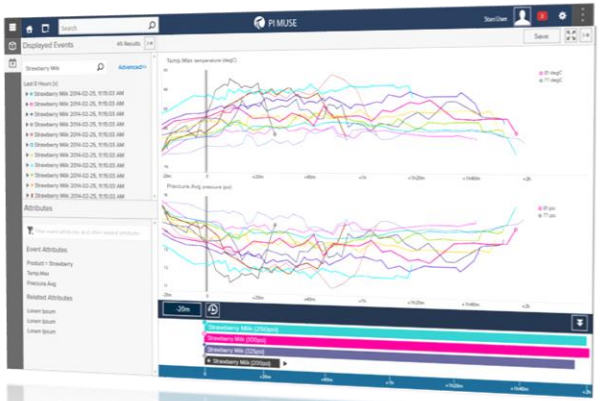
Visualization for today's PI System

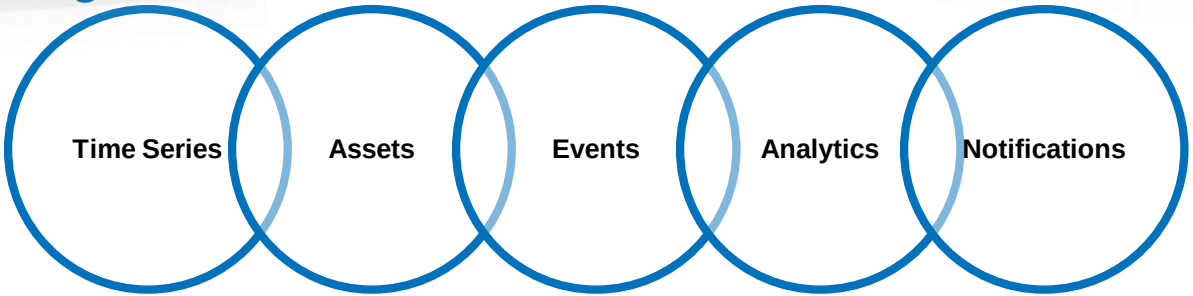


Authoring

Monitoring



Ad Hoc Analysis



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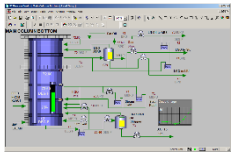
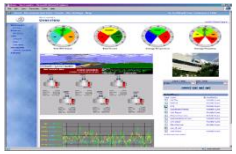


PI ProcessBook

Display Editor
Process Monitoring

PI Coresight 2.x

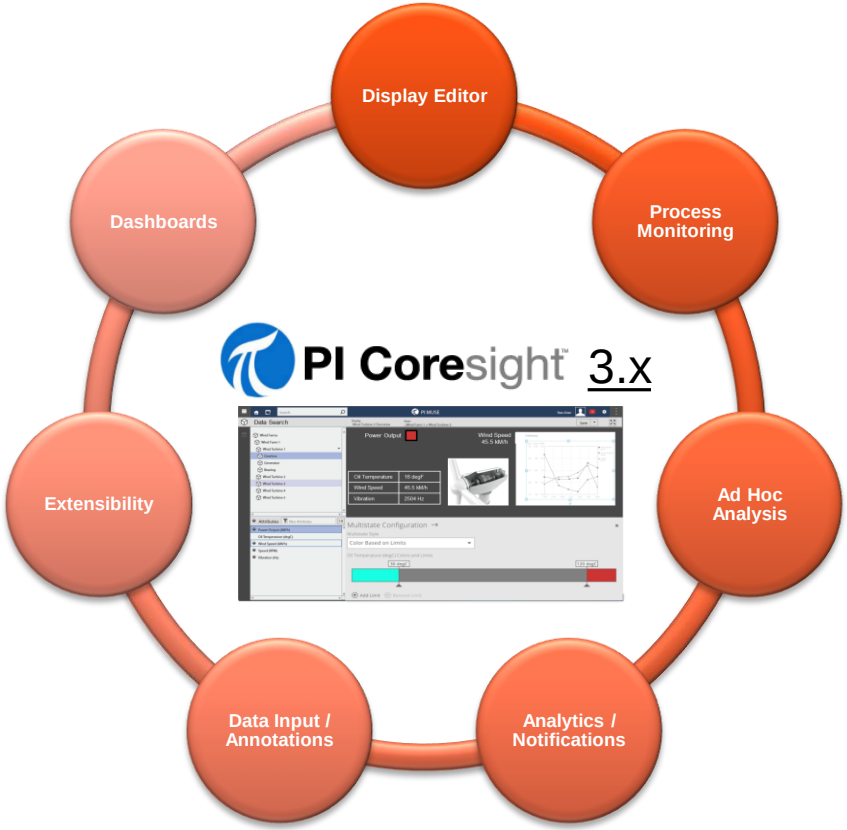
Ad Hoc Analysis
PB Display Viewer



PI WebParts

Dashboards

TODAY (2015)



FUTURE (2016+)

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PI Coresight™ 3.x

The following is a glimpse of what the development team is working on in support of the PI Coresight 3.x vision.

The functionality displayed is subject to change.

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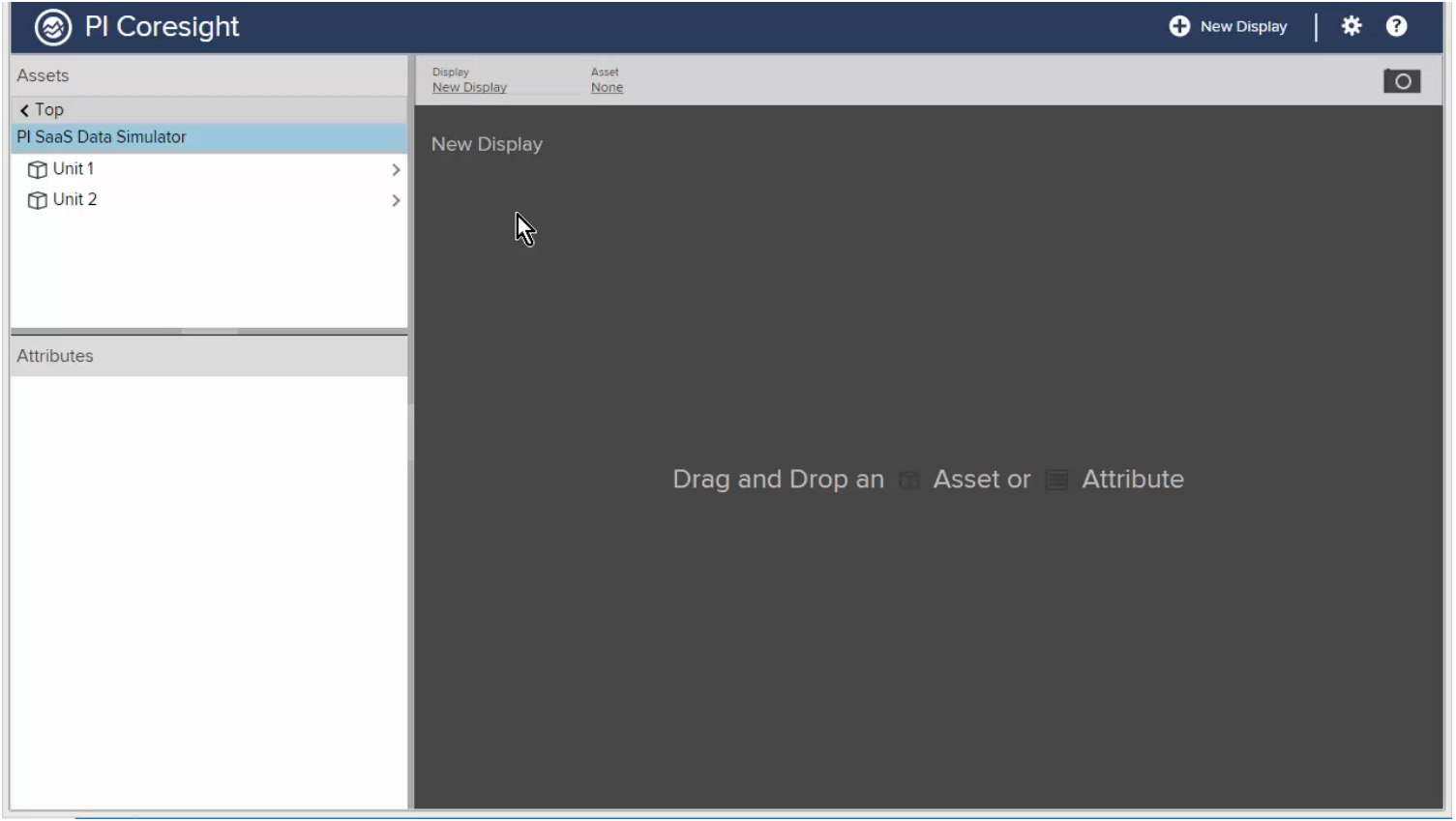
Draw me a picture

Prototype Development



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