PI Vision 2020

through the looking glass

Rohan Vettiankal & Sasha Krivonosova



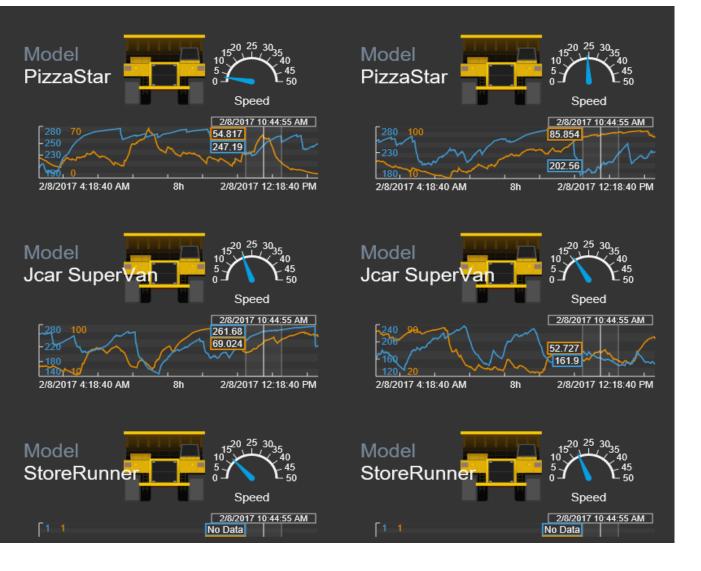
PI Vision

The fastest, easiest way to visualize PI Server data

- An easy to use, selfservice, scalable solution
- Access data from any web browser, including mobile device browsers
- Organize and share displays across your organization



Collections: Auto-populate monitoring displays



Group one or more symbols as a "collection"



Screen auto-populates that same grouping for all assets

- New assets are added automatically
- Add filter criteria to quickly see troubled assets

Ad Hoc Trending Dive into a real-time investigation of your operations

Select relevant data

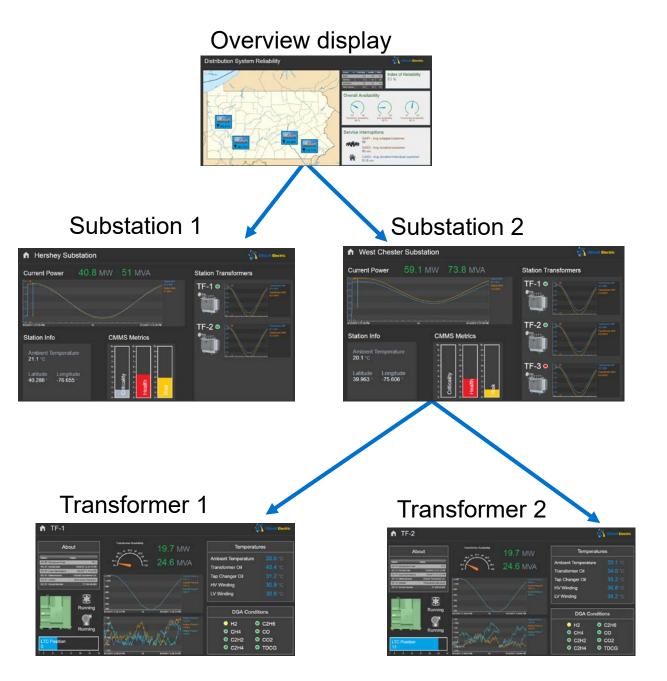
Trend and Explore

Discover insights



Drill-in Navigation

- Configure a URL link on any symbol
 - Link to another display or another website
 - Pass context (time/asset) when linking to another display





PI Vision 2020







Multiple Time Contexts



Display Usage Monitoring





Additional PI ProcessBook Migration

PI Vision Calculations

Quickly create calculations for PI Tags to analyze data on the fly

Pump P-24/09A is not instrumented with a flow meter

Using PI Vision Calculations its <u>output</u> <u>can be calculated by</u> totalizing downstream **Flow Control Valves measurements**





Multiple Time Contexts

Compare data over different time ranges within the same display

Henergy Utilization (kWh)





PI Vision Usage Reports

Taking the guesswork out of whether displays are still being used

Available Reports:

Detailed Display Content Information

Display Usage Information

User access within time range

User Count by License type

Display usage information Year to date View Export Details		
Display	Total views	Unique users
Petrolux DS FCC Pump	10	2
discrete manufacturing_SL_bottling_LineOverview	5	4
OG-PRD-RL	5	2
Display1	4	1
MultiState with Collection	4	1
JR_PI_Vision_Calculations	3	1
multistate	3	1
Pulp and Paper - Kappa Inc - Paper Machine	3	1



Collaborative Displays

Giving your team the power to build out displays together

New capabilities:

Grant **Write access** to display to multiple users or AD groups (through AF Identities mapping)

Users with Write access can **make changes** and **save** the display without need to edit display name or change the display owner

IG-PRD-RL eywords: eywords must be separated by semicolons. touston; OilandGas; PlungerLift; Production; Read-only If checked, changes you make to the display must be saved under a different name. isplay Owner: OSI\u00ffak Isplay Access: Unassigned AF Identities Filter Identities Administrators Admins Asset Analytics Asset Analytics Asset Analytics Recalculat Asset Based PI Builders		Display Settings		×
eywords must be separated by semicolons. Read-only If checked, changes you make to the display must be saved under a different name. isplay Owner: OSI\u0374 Splay Access: Unassigned AF Identities Filter Identities Administrators Adminis Asset Analytics Asset Analytics Recalculat	G-PRD-RL			
Investor; OilandGas; PlungerLift; Production; Read-only If checked, changes you make to the display must be saved under a different name. isplay Owner: OSI\ak Solvak Unassigned AF Identities Filter Identities Administrators Admins Asset Analytics Asset Analytics Recalculat		IS.		
If checked, changes you make to the display must be saved under a different name. isplay Owner: OSI\ak isplay Access: Unassigned AF Identities Filter Identities Administrators Admins Asset Analytics Asset Analytics Recalculat	louston; OilandGas; PlungerLift; Production	on;		
Unassigned AF Identities Identity Read Write Filter Identities HoustonOperators World V Masset Analytics Asset Analytics Recalculat World Kead World World Identity Read Write World World Identity Read Write World Identity Identity Identity Identity 	If checked, changes you make to the c isplay Owner:	lisplay must be saved under a differ	ent name.	
Filter Identities Administrators Admins Admins Asset Analytics Asset Analytics Recalculat		Identity	Read	Write
Administrators Vorld ✓				
Asset based FT builders	Admins Asset Analytics Asset Analytics Recalculat			
BI Integrator Administrators				

PI ProcessBook Migration Utility

Bring more of the PI ProcessBook features you love to PI Vision

MIGRATE ANALYZE O PI Vision Source And Antipation States Antipation States States Antipation States Antipatio 0 SLTC - Asset Displays - AC RTU Disp. Asset AC Unit 2 V P Proceedings - ISITC - AC #TUDisplays - ACL edit Ele Edit Vew Incent Joch Daw Arange Window Help AC - 2 🔹 🕰 👘 🗔 📴 😴 🐨 🗑 🗑 😨 🗶 🙀 🥪 – Crithophyriatte Buildwyraitte - Ad 10400 88 Unit Mode: FB (K < 4/3/2019 8 452018>》* 品品 0 = > * 3 Outdoor Air Temp: 61 *F Occupancy Status: Occupied AC - 2 Outdoor Airflow: 15637 ft3/m Mode Status: Cooling OA Airflow SP: 8700 ft3/m Outdoor Air Temp: Outdoor Airflow: Exhaust Fan Status: ON Unit Specifications: OA Airflow SP: Exhaust Fan Cmd: ON haust Damper Fdbk: 26 Exhaust Fan Status ON Cooling AMB 83 *F Exhaust Fan Cmd: ON Cooling Coll Face Area 43 Exhaust Damper Fobk: 26 % 480 v Electrical Voltage Discharge Air Temp: 57 -120 v Electronic Filter Power Discharge Air Temp: Discharge Air SP: 55 °F Fan CFM 27000 ft3/m Discharge Air SP: Active OA Lockout: 70 * Filters Type Cosatron Active OA Lockout: 70 °I Economizer Status: Active Fan ESP Economizer Status: Active - 3 Economizer Fdbk: 100 % Economizer Fdbk: 100 % Location Roof Economizer Min Pos: 10 % nomizer Min Pos: 10 % Cooling Load: 21 % Manufacturer Trane Cooling Load: 21 % #1 Compressor: On #1 Compressor: On Nom. Tons 75 ton #2 Compressor: Off SA Fan Run Status: ON #2 Compressor: Off SA Fan Run Status: ON Total Weight 10526 lb #3 Compressor: Off SA Fan Run Cmd: ON #4 Compressor: Off SA Speed Cmd: 48 Average Floor Temp: #3 Compressor: Off SA Fan Run Cmd: ON #4 Compressor: Off SA Speed Cmd: 48 Average Floor Temp: 73 deg F SLTC IN LEADERS TEEN CHIEFES SLTC **OSI**soft 4/5/2019 10:50:52 AM 4/5/2019 6:50 52 PM

New Migration Capabilities for:

PI ProcessBook calculation **data sets**

Trends with multiple time ranges

Additional trend symbol functionality

Enhanced multi-state functionality

OSIsoft.

PI Vision 2020 Demo



© 2020 OSIsoft, LLC 13