

Visualization: PI Vision 2019

Andrew Nguyen, Product Marketing Manager
Ryan McErlean, Technical Product Manager



Agenda



What is PI Vision?



PI Vision Roadmap



PI Vision 2019: PI ProcessBook Migration



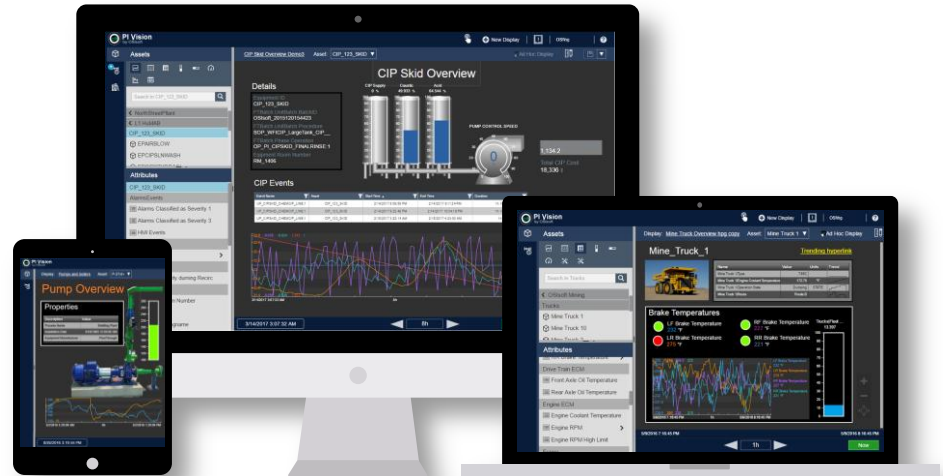
PI Vision 2019: Ad Hoc Trending

The evolving world of data

PI Vision

The fastest, easiest way to visualize PI System data

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



The Journey to PI Vision



PI ProcessBook
Process Monitoring



PI Coresight
Ad Hoc Analysis



PI WebParts
Dashboards



PI Manual Logger
Manual Data Entry

The Journey to PI Vision



PI ProcessBook
Process Monitoring



PI Coresight
Ad Hoc Analysis

Bouncing between four applications
To do four different tasks
To solve one critical business issue



PI WebParts
Dashboards



PI Manual Logger
Manual Data Entry

The Journey to PI Vision



PI ProcessBook
Process Monitoring



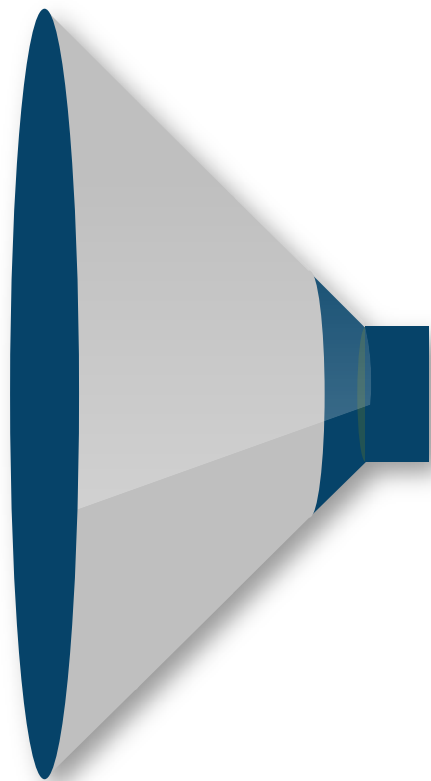
PI Coresight
Ad Hoc Analysis



PI WebParts
Dashboards



PI Manual Logger
Manual Data Entry



The Benefits of PI Vision



Easy to Use

Intuitive Interface

Easy to use interface that shortens the learning curve

Dynamic Displays

Displays automatically populate with relevant asset-centric data

Easy Display Navigation

Easily explore and navigate by simply double clicking on symbols



Self-Service

Quick Access to Data

Contextualized data makes it easy for any operator or engineer to quickly find the data they need

Fast Display Building

Quickly build your own displays without waiting on other business groups

Mobile Capabilities

Create, edit, or view displays in any desktop or mobile device browser



Scalable

Reduce Number of Displays

With related assets, simply build a single display and reuse it for other assets with the click of a button

Display Organization

Easily organize and manage your displays using folders

Rapid Deployment and Roll-Out

Easily organize and manage your displays using folders as your organization

Agenda

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What is PI Vision?

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PI Vision Roadmap

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PI Vision 2019: PI ProcessBook Migration

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PI Vision 2019: Ad Hoc Trending

PI Vision – Roadmap



Developing Now

Ad Hoc Trending

Analyze data across displays and investigate issues on-the-fly in an ad hoc workspace.

PI ProcessBook Migration

Provide a path forward for PI ProcessBook users with migration of displays to PI Vision.



Considering Next

Display Editing Enhancements

- Multiple time contexts
- Role-based edit permission



Researching Future

Streamlined Deployment & Modern Authentication

Ad Hoc Calculations

User Experience Enhancements



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PI Vision 2019



PI ProcessBook Migration



Ad Hoc Trending



Streamlined Security for XY Plot
and Events Table



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PI ProcessBook Migration

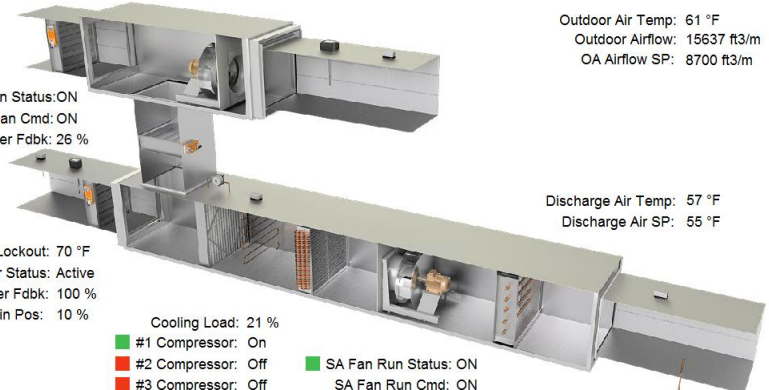
PI ProcessBook - [SLTC - AC RTU Displays - AC2.pdi]

File Edit View Insert Tools Draw Arrange Window Help

C:\Displays\SLTC Building\SLTC - AC RTU Displays - AC2.pdi

4/3/2019 4/5/2019

AC - 2



Exhaust Fan Status: ON
Exhaust Fan Cmd: ON
Exhaust Damper Fdbk: 26 %

Active OA Lockout: 70 °F
Economizer Status: Active
Economizer Fdbk: 100 %
Economizer Min Pos: 10 %

Cooling Load: 21 %

- #1 Compressor: On
- #2 Compressor: Off
- #3 Compressor: Off
- #4 Compressor: Off

- SA Fan Run Status: ON
- SA Fan Run Cmd: ON
- SA Speed Cmd: 48

Outdoor Air Temp: 61 °F
Outdoor Airflow: 15637 ft3/m
OA Airflow SP: 8700 ft3/m


Discharge Air Temp: 57 °F
Discharge Air SP: 55 °F

Unit Mode:
Occupancy Status: Occupied
Mode Status: Cooling


Unit Specifications:

Cooling AMB	83 °F
Cooling Coil Face Area	43
Electrical Voltage	480 V
Electronic Filter Power	120 V
Fan CFM	27000 ft3/m
Filters Type	Cosatron
Fan ESP	3
Location	Roof
Manufacturer	Trane
Nom. Tons	75 ton
Total Weight	10526 lb

Average Floor Temp: 73 deg F



SLTC
SAN LEANDRO TECH CAMPUS



OSIsoft.

Ready Server Time

PI ProcessBook Migration

PI Vision
SLTC - Asset Displays - AC RTU Disp... Asset: AC Unit 2

AC - 2

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Occupancy Status: Occupied
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SLTC SAN LEONORO TECH CAMPUS

OSIsoft.

4/5/2019 10:50:52 AM 8h Now 4/5/2019 6:50:52 PM

Accelerate your path to the latest visualization tool

PI ProcessBook Migration

1 Select

Files and Folders

Path/FileName	Date Modified
C:\Displays	
C:\Displays\Process Monitoring	
C:\Displays\Process Monitoring\Animation #1.PDI	4/5/2019 2:34 PM
C:\Displays\Process Monitoring\Animation #2.PDI	4/5/2019 2:35 PM
C:\Displays\Process Monitoring\Batch Reactor #1.PDI	4/5/2019 2:44 PM
C:\Displays\Process Monitoring\Batch Reactor #2.PDI	4/5/2019 2:44 PM
C:\Displays\Process Monitoring\Kamyr.PDI	4/5/2019 2:28 PM
C:\Displays\Process Monitoring\Main Column Bottom.PDI	4/5/2019 2:18 PM
C:\Displays\Process Monitoring\Paper Machine.PDI	4/5/2019 2:18 PM
C:\Displays\Process Monitoring\Particulate Removal System.PDI	4/5/2019 2:59 PM
C:\Displays\Process Monitoring\PI Expressions.PDI	4/5/2019 2:42 PM
C:\Displays\Process Monitoring\PI Summary.PDI	4/5/2019 2:43 PM
C:\Displays\Process Monitoring\Process Display.PDI	4/5/2019 2:18 PM
C:\Displays\Process Monitoring\Pulp Prep #1.PDI	4/5/2019 2:18 PM
C:\Displays\Process Monitoring\Pulp Prep #2.PDI	4/5/2019 2:18 PM
C:\Displays\Process Monitoring\Trends #1.PDI	4/5/2019 2:28 PM
C:\Displays\Process Monitoring\Trends #2.PDI	4/5/2019 2:28 PM
C:\Displays\Process Monitoring\Trends #3.PDI	4/5/2019 2:21 PM
C:\Displays\SLTC Building	
C:\Displays\SLTC Building\SLTC - AC RTU Displays - AC2.pdi	4/5/2019 1:48 PM
C:\Displays\SLTC Building\SLTC - Device View - VAVCO.pdi	3/18/2019 10:05 AM
C:\Displays\SLTC Building\SLTC - Energy Management Overview.pdi	4/5/2019 2:41 PM

Select All 19 files listed 19 files selected

Remove From List Run Analysis

2 Analyze

Analysis Results

Path/FileName	Issue Tags
Can be Fully Migrated	
Displays\Process Monitoring\Animation #1	
Displays\Process Monitoring\Animation #2	
Displays\Process Monitoring\Batch Reactor #1	
Displays\Process Monitoring\Batch Reactor #2	
Displays\Process Monitoring\Kamyr	
Displays\Process Monitoring\Main Column Bottom	
Displays\Process Monitoring\Paper Machine	
Displays\Process Monitoring\PI Expressions	
Displays\Process Monitoring\PI Summary	
Displays\Process Monitoring\Process Display	
Displays\Process Monitoring\Pulp Prep #1	
Displays\Process Monitoring\Pulp Prep #2	
Displays\Process Monitoring\Trends #1	
Displays\Process Monitoring\Trends #2	
Displays\SLTC Building\SLTC - AC RTU Displays - AC2	
Displays\SLTC Building\SLTC - Device View - VAVCO	
Can be Partially Migrated	
Displays\Process Monitoring\Particulate Removal System	DS
Displays\Process Monitoring\Trends #3	DS
Displays\SLTC Building\SLTC - Energy Management Overview	DS

Select All 19 files listed 19 files selected

View Reports Migrate Displays

3 Migrate

Analysis Results

Path/FileName	Status	Issue Tags	Progress
Displays			
Process Monitoring			
Animation #1	✓		Migrated
Animation #2	✓		Migrated
Batch Reactor #1	✓		Migrated
Batch Reactor #2	✓		Migrated
Kamyr	✓		Migrated
Main Column Bottom	✓		Migrated
Paper Machine	✓		Migrated
Particulate Removal System	⚠	DS	Migrated
PI Expressions	✓		Migrated
PI Summary	✓		Migrated
Process Display	✓		Migrated
Pulp Prep #1	✓		Migrated
Pulp Prep #2	✓		Migrated
Trends #1	✓		Migrated
Trends #2	✓		Migrated
Trends #3	⚠	DS	Migrated
SLTC Building			
SLTC - AC RTU Displays - AC2	✓		Migrated
SLTC - Device View - VAVCO	✓		Migrated
SLTC - Energy Management Overview	⚠	DS	Migrated

Select All 19 files listed 19 files selected

View Reports Migrate Displays

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PI Vision 2019: Ad Hoc Trending

Ad Hoc Trending

Dive into a real-time investigation of your operations

Select relevant data

Trend and Explore

Discover insights



DEMO

Ad Hoc Trending

Summary

- PI Vision is an **easy to use**, **self-service**, **scalable** solution for your real-time operational data visualization needs
- PI Vision 2019 – the next step for visualization
 - Ad hoc trending
 - PI ProcessBook migration
 - Streamlined security configuration
 - Usability enhancements
- Look for more to come as we continue to deliver on our vision for visualization



➔ Product Booth

Visualization


Product Expo –
Golden Gate Ballroom



➔ Other Talks

Visualize: PI Vision 2019 and
ProcessBook Migration
Thursday – 3:30pm
Products Track – Hilton

Leveraging the Power of Extensibility
Wednesday – 10:45am
Tech Talk – Parc 55



➔ And more ...

Building Displays with PI Vision 2019
Thursday – 2:30pm
Friday – 9:00am
Lab

PI Vision: Beyond the Basics
Thursday – 10:30am
Friday – 9:00am
Lab

Your feedback is important to us!

Please take 5 minutes to complete our PI Vision survey to help us learn about your adoption of PI Vision.



https://osisoft.az1.qualtrics.com/jfe/form/SV_a8yRPKQnRmlddTn

Communicate with OSIsoft Product Managers



<https://feedback.osisoft.com>

.....
If it is not shared on the feedback portal, it didn't happen!

Contact Us



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- Ryan McErlean
- Technical Product Manager
- OSIsoft
- rmcerlean@osisoft.com

Questions?

Please wait for
the **microphone**

State your
name & company



Please remember to...

Complete Survey!
Navigate to this session in
mobile agenda for survey

An advertisement for the OSISOFT PI World app. The background is dark blue with a subtle pattern. On the right is a smartphone displaying the app's logo, which consists of a stylized white atom symbol above the text "OSISOFT PI World". To the left of the phone, the text "TO DOWNLOAD APP, SEARCH OSISOFT PI WORLD" is written in white. Below this text are two black buttons: one with the Apple logo and the text "Download on the App Store", and another with the Google Play logo and the text "GET IT ON Google Play".

TO DOWNLOAD APP,
SEARCH OSISOFT
PI WORLD

Download on the
App Store

GET IT ON
Google Play

OSISOFT
PI World

謝謝 KEA LEBOHA
 TAPADH LEIBH 고맙습니다
 БАЯРЛАЛАА MISAOTRA ANAO
 DZIĘKUJĘ CI NGIYABONGA TEŞEKKÜR EDERIM GRACIES OBRIGADO شكرا SALAMAT
 DANKIE TERIMA KASIH DANKON TANK TAPADH LEAT
 KÖSZÖNÖM SPASIBO MULTUMESC
 PAKMET CIZGE OSIssoft. HVALA FAAFETAI
 GO RAIBH MAITH AGAT PIWorld ESKERRIK ASKO
 БЛАГОДАРЯ GRACIAS HVALA ХВАЛА ВАМ
 TI БЛАГОДАРАМ TEŞEKKÜR EDERIM
 TAK DANKE MAHADSANID DANK JE EΥΧΑΡΙΣΤΩ GRATIAS TIBI GRAZIE
 RAHMAT MERCI AČIŮ SALAMAT MAHALO IĀ 'ŌE TAKK SKALDU HA DI OU MÈSI
 HATUR NUHUN GRAZZI ПAKKA PĒR ありがとうございました ǃAKUJEM
 PAXMAT CAĜA SIPAS JI WERE TERIMA KASIH MATUR NUWUN
 CẢM ƠN BẠN UA TSAUG RAU KOJ
 WAZVIITA TI БЛАГОДАРАМ
 СИПОС FALEMINDERIT



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THANK YOU