Batch Users: Batch Migration to Event Frames

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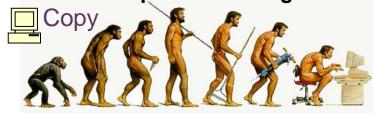
Today's Agenda

- Why PI EF?
- Batch Roadmap Update
- PI Server 2015: Migration
- PI Coresight: Overlay Trending
- RtReports Update
- Call to Action

Why PI Event Frames?

"Homosapien Data Integration"

Copy

Paste

Why PI Event Frames?

Data

Time

Hard to Find Related Data

Increasing Data

Events & Process Data Are Not Integrated

Alarms / Excursions Downtime MES Your Event DB Process Data

Pharma and Life Sciences Industry

BUSINESS PROBLEM

"Increased accessibility to data in multiple manufacturing systems, which will allow us to visualize, analyze, and share our data with global users"

EVENT TYPES

"Batch, build complex Batch models with the ability to have overlapping unit batches"

VALUE

"Ensure we have a consistent process and a quality product. Detect problems before they become a problem"

Batch Roadmap Update

Current State of <u>Batch Capabilities</u> in the PI System

	Database First Released	Supporting Data Structure	Overlapping Events on Unit	Scalability / Performance	High Availability	Data Access Technologies
PI Event Frames	**Nov 2011** PI Server 2010 R3 Data Stored in AF DB (SQL Server)	**Supports Templates & is flexible.** Event attributes can be easily tailored to business needs.	**<u>Yes</u>: Unlimited Events on a Unit at a Time** See a full picture of your asset. Batches, excursions, downtimes.	**Millions of Events** Most types of customer searches will perform better	**<u>Yes</u>: HA Supported** Event Frames can be architected via a HA write AF Architecture	**Newer Technologies** PI AF SDK, PI OLEDB Enterprise, PI Web Services, PI JDBC, PI Web API
PI Batch	**March 2001** PI Server 3.3.361.43 Data Stored in Proprietary Tag Structure in Data Archive	**Fixed & not flexible.** Supports Batch ID, Product, Recipe, Procedure, and nothing else.	**<u>No</u>: 1 Unit Batch on a PI Unit at a time** Customers create 'phantom PI Units' in MDB to get around this.	**Tens of Thousands of Events** Batch customers have complained about performance on systems with many batches.	**<u>No</u>: HA is not supported with PI Batch** Long-standing request from batch customers.	**Older Technologies** PI SDK, PI ODBC Client

Current State of Batch Functionalities in the PI System

BES / MES Interfaces	DB Storage & Audit Trail	Excel Integration	Trend Single Batch	Overlay Trend Batches	Compliance Reporting

PI Event Frames

PI Interfaces

AF/Event Frames

PI DataLink

PI Coresight

PI Coresight

RtReports

Development in Progress! Coming Soon!

PI Batch

PI Interfaces

Batch

PI BatchView

PI BatchView
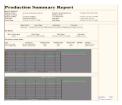
PI BatchView

RtReports

Event Frames & Batch Roadmap Strategy – Wave 3

Batch

Wave 2

Batch Early Adopters

40-60+% of existing Batch Customers

95+% of existing Batch Customers

MIGRATE Data [2015]

Event Frames – Wave 3 [2016]

Additional TBD [TBD]

PI Server 2015
- Satisfied with Existing PI EF Client Support
- Leverage Partner Products
- No Custom Batch Apps
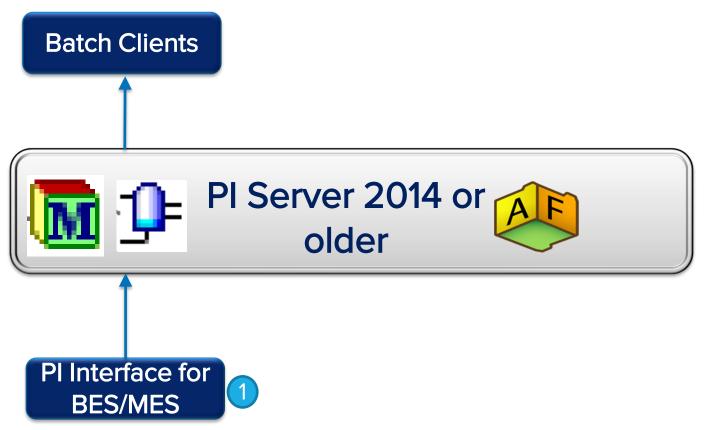
More EF Clients
- Require more Event Comparison

TBD
- RtReports with PI AF & PI EF Support

NOW (*)

PI Server 2015: Batch to Event Frames Migration

Batch to Event Frames Migration Process

Batch Clients

PI Server 2014 or older

PI Interface for BES/MES ①

1 Upgrade Interfaces

2 Upgrade Server

3 Install Event Frames Clients

4 Migrate Batch Data

5 Switch Interfaces

Batch to Event Frames Migration Process

Batch Clients

PI Server 2014 or older

PI Interface for BES/MES 1

1. Upgrade Interfaces
2. Upgrade Server
3. Install Event Frames Clients
4. Migrate Batch Data
5. Switch Interfaces

Batch to Event Frames Migration Process

Batch Clients

3 **Event Frames Clients**

PI Server 2015

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AF
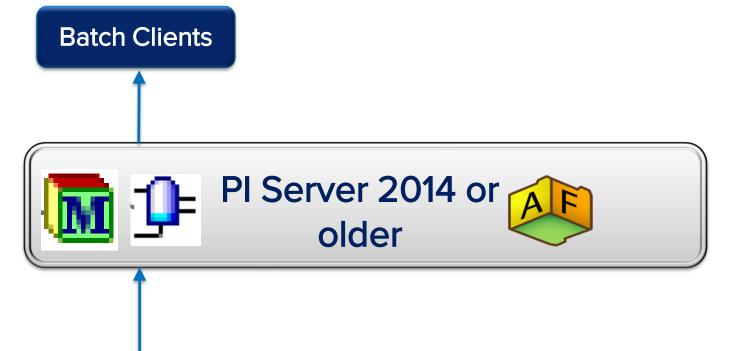
1 Upgrade Interfaces

2 Upgrade Server

3 Install Event Frames Clients

4 Migrate Batch Data

5 Switch Interfaces

1 **PI Interfaces for BES/MES**
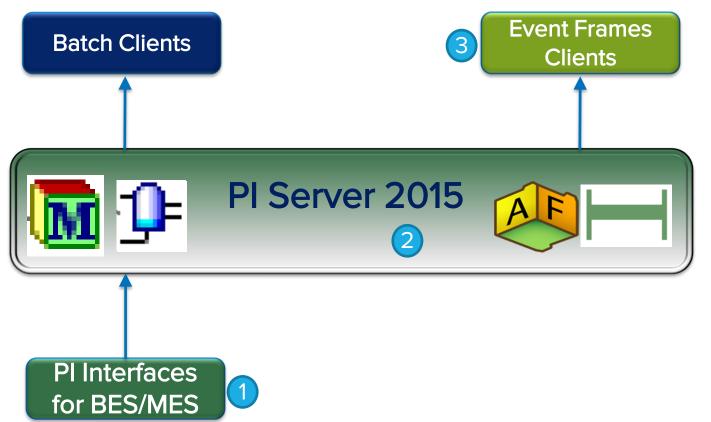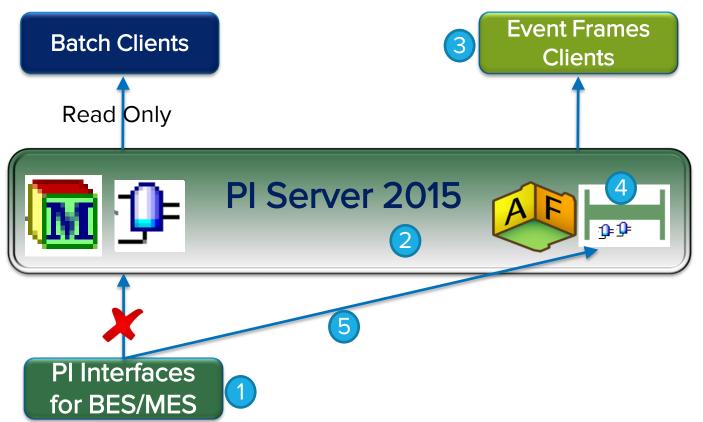
Batch to Event Frames Migration Process

PI Server 2015:
Batch to Event Frames Migration

DEMO

Released Product

This DEMO Covers

- Check AFLink Status
- Check Batch Report pre-Migration
- Perform Migration
- Check PI Event Frames Report post-Migration
- Review PI Event Frames

DEMO Key Takeaways

- TEST environment
- One-time migration
- On Site Workshop

Released Product – Start testing!

PI Coresight:
Overlay Trending

PI Coresight:
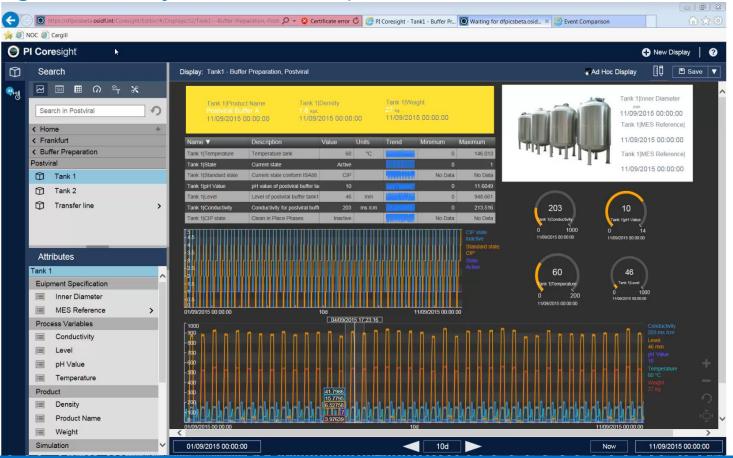## Batch Overlay in Development

DEMO

BETA Product

This DEMO Covers

- PI EF hierarchy visualization

- Overlay Trending

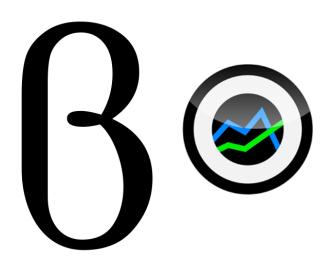- Gantt Chart

- Combine PI EF with PI AF Attributes

PI Coresight Overlay – In Development

DEMO Key Takeaways

- PI BatchView Replacement
- Visualize Overlay Trends
- Visualize Gantt Charts

BETA version available - Release in 2016!

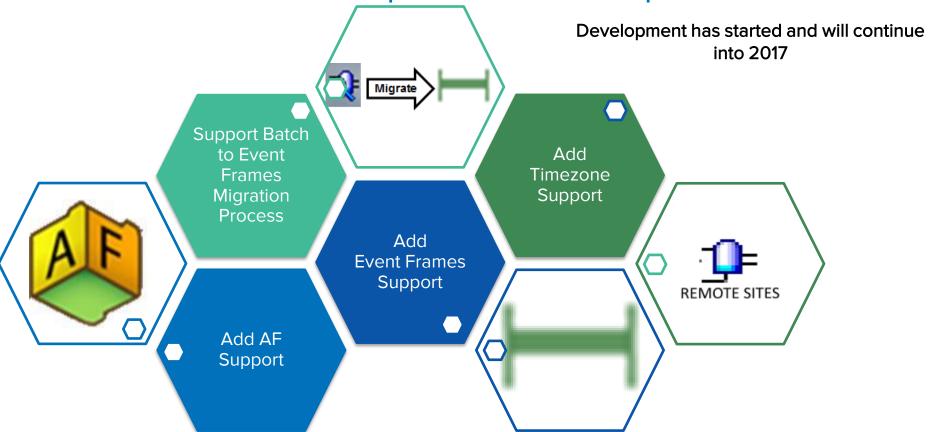# RtReports Update

In case you haven't heard …

- OSIsoft has updated RtReports – RtReports 3.3.0.7 patch
- OSIsoft is continuing to **enhance** RtReports

What's next after RtReports 3.3? RtReports 4.0!!!

Development has started and will continue into 2017

Support Batch to Event Frames Migration Process

Migrate

Add Timezone Support

Add AF Support

Add Event Frames Support

REMOTE SITES
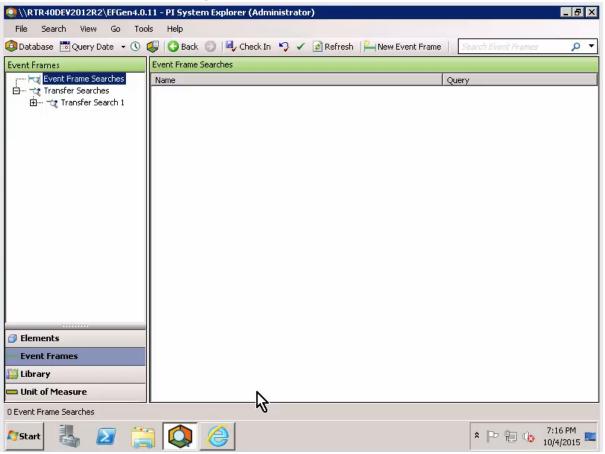
This DEMO Covers

- PI EF Search in PI System Explorer

- PI EF Search in RtReports

- RtReport Generation based on PI EF

- Comparison of PI EF in RtReports and PI System Explorer

RtReports – In Development

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DEMO Key Takeaways
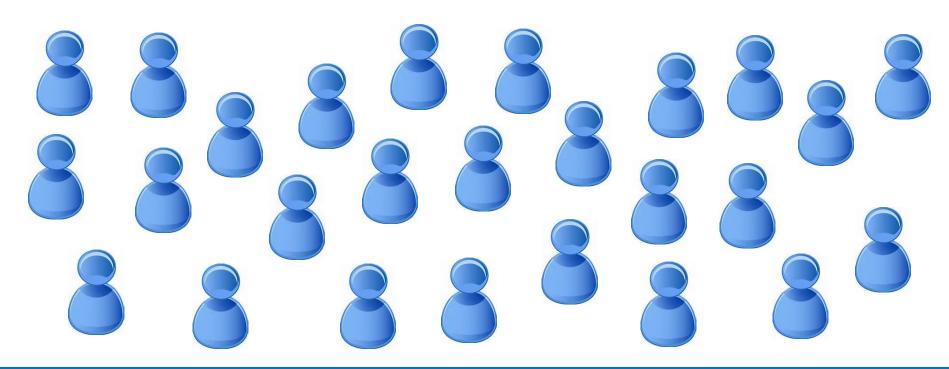

Development in Progress!

- RtReports PI Event Frames Reporting Abilities

- Generator search supports PI Batch and PI Event Frames in same window

Call to Action

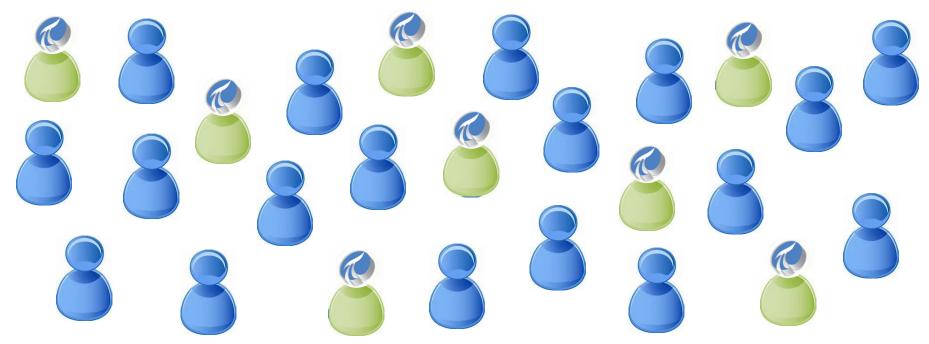# What does this mean for Batch Customers?

What does this mean for Batch Customers?
Early Adopters: We are ready for you!
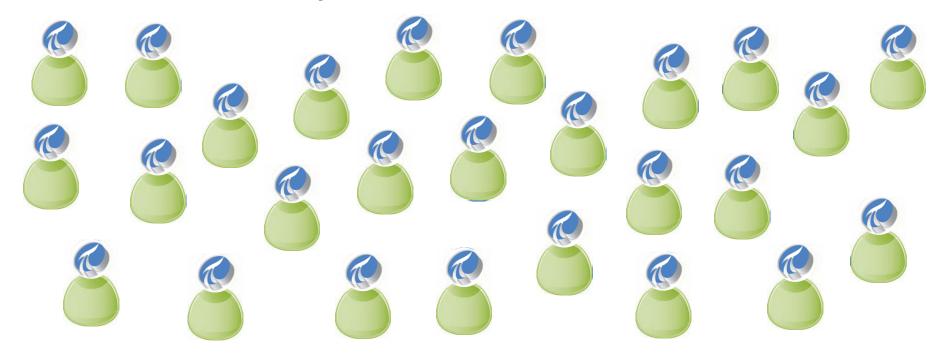
PI EF Clients ready; PI Server 2015 – Batch Migration; More PI EF Client support coming.

What does this mean for Batch Customers?
Everyone else: We want to get your feedback!

Start implementing PI AF & Start testing PI EF!

Places to Get More Information:

- PI Event Frames & Batch Migration Booth
- PI Batch to EF Migration Workshop On Site
- Contact RtReports & Batch to EF Product Manager
- Participate in the Coresight BETA

Start Testing Now!

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Questions

Please don't forget to…

Please wait for the **microphone** before asking your questions

State your
name & company

Complete the Online Survey for this session

http://eventmobi.com/emeauc15

감사합니다

谢谢

Danke

Gracias

Merci

Thank You

ありがとう

Спасибо

Obrigado