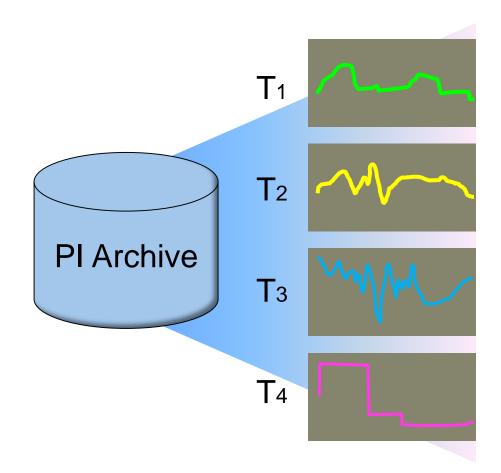




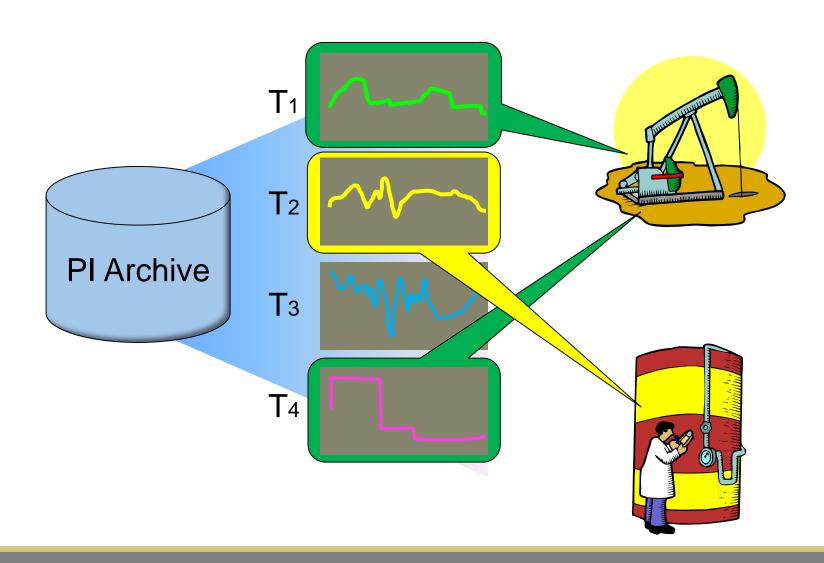
Event Frames Initiative Update

Chris Nelson Chris Coen

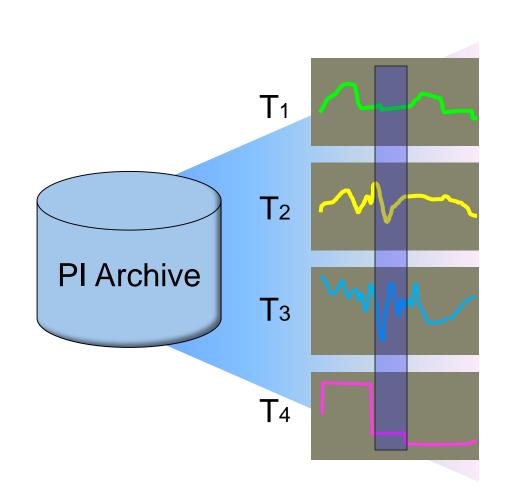




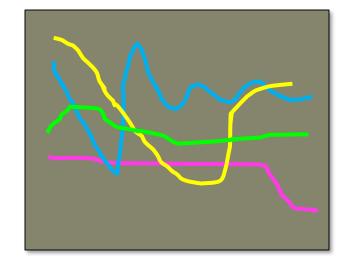
Physical Context



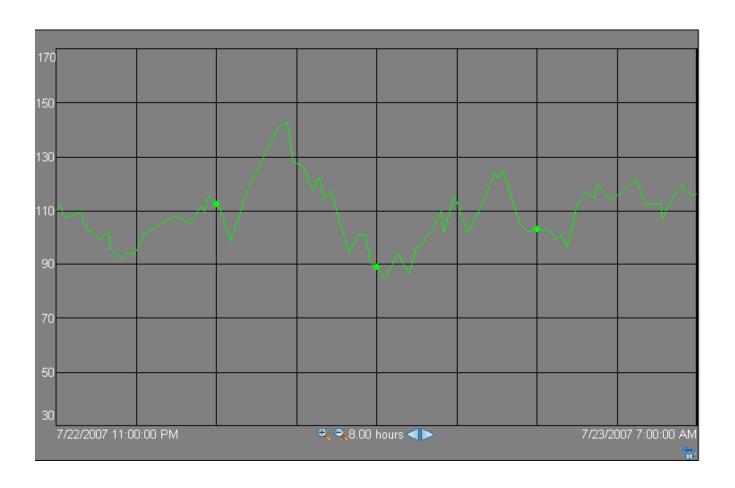
Temporal Context





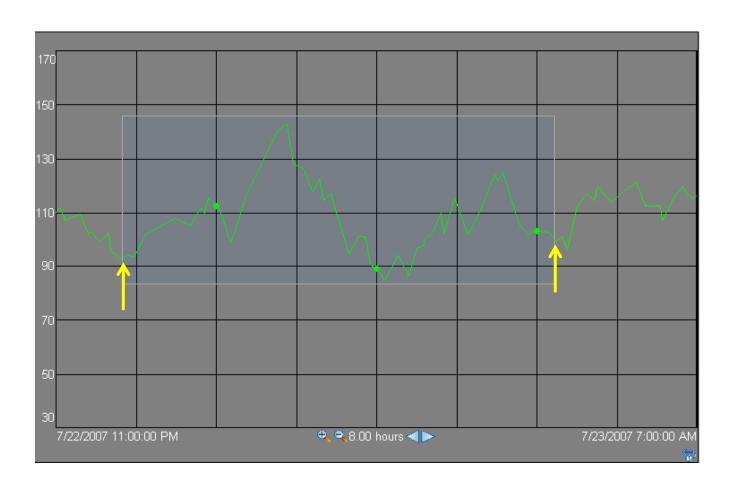


Continuous Data





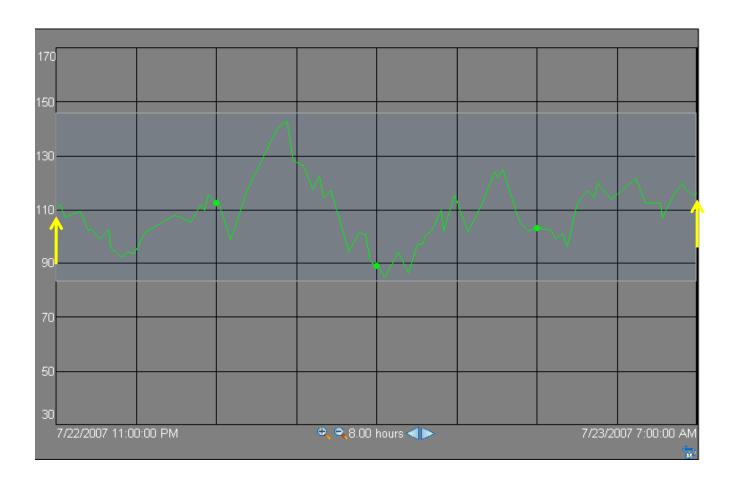
Batch







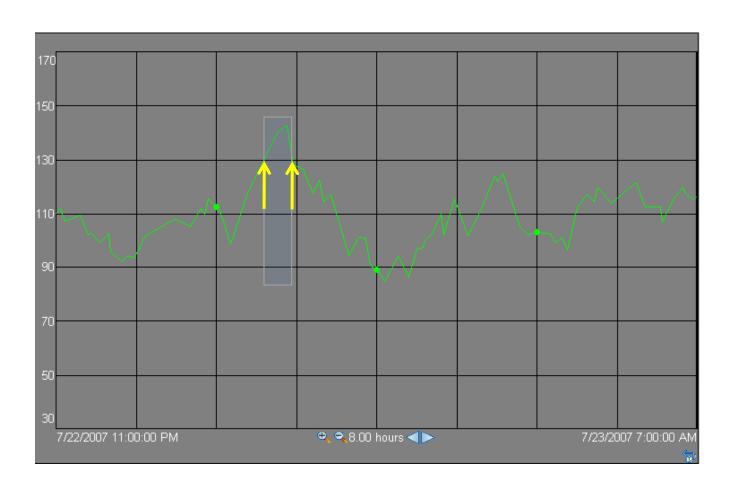
Day or Shift







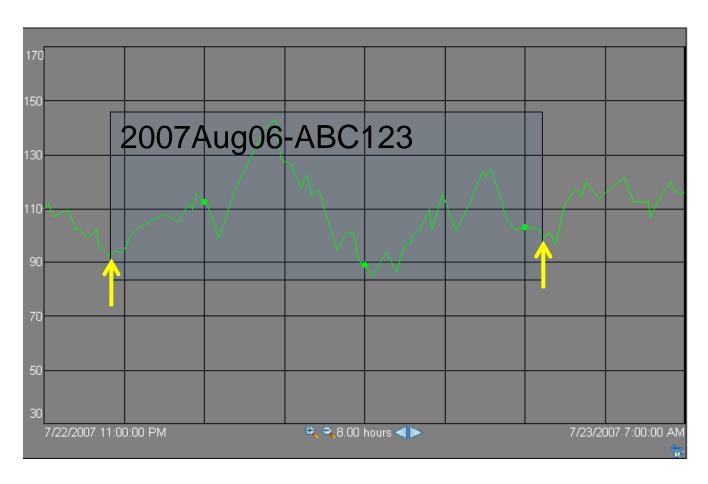
Event







What is an Event Frame?



- Start time
- End time
- Name
- Associated data
 - Equipment
 - Tags
 - Comments
 - EventFrames

Event Frame Definition

Our terms

A time series data type defined by two times and optionally accompanied by supporting data

Your terms

Any event in your process:

- downtime event
- incident event
- material transfer event
- equipment maintenance event
- batch processing step
- specific investigation
- six-sigma project
- electrical power outage
- safety incident

Any time range or repeatable set of time ranges:

- shifts
- day
- week
- month
- year to date
- etc.

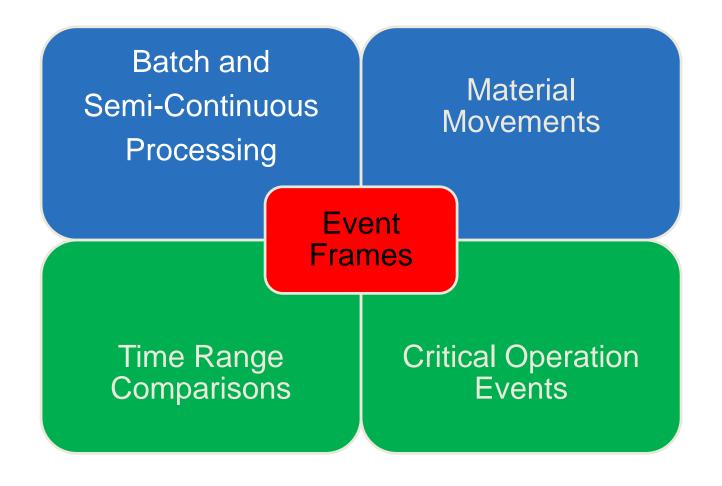
Event Frame Value Statement

- Name, store, organize, search and analyze important time periods
- Study the real-time and other data that happened during or led up to these events without needing to first look up the time ranges
- It's like a way of indexing the supporting real-time data so you can look it up by in terms of your business rather than by trying to remember the time periods when they occurred

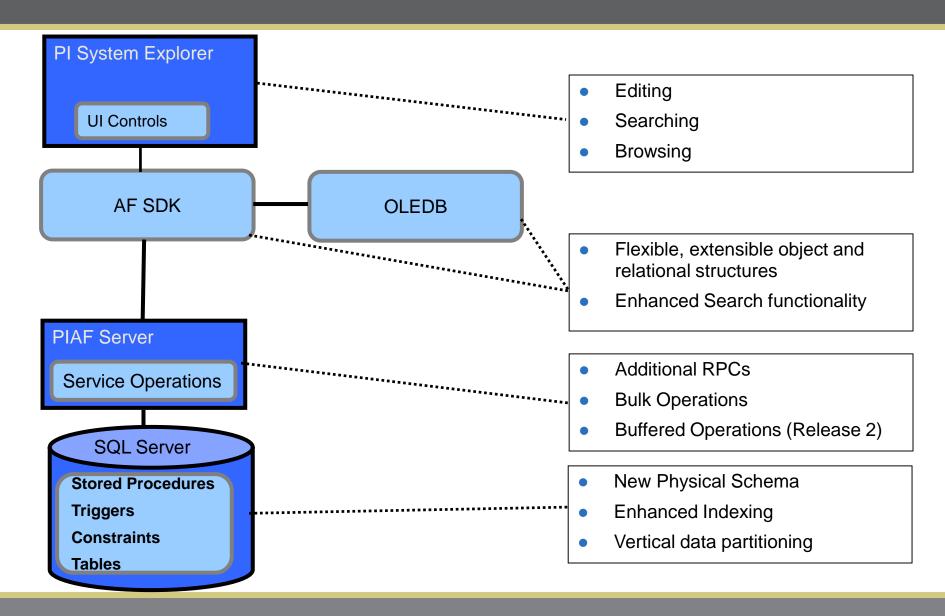
Use Scenarios

- Repeatable Time Period Comparisons
- Downtime/Incident/Accident
- Discrete Manufacturing
- Equipment Startup and Shutdown
- Paper/Roll Manufacturing
- Semi-continuous Manufacturing
- Material Tracking
- Batch Processing
- OSIsoft Internal Applications

Infrastructure for all Industries



Event Frames enhance AF



Event Frames enhance AF

- Integrate all current Event Frame data types into a base object and common infrastructure
 - Batch Database Objects, Transfer Records, AF Transfers, AF Cases, Notification History, etc.
- Leverage the infrastructure and concepts of AF
 - Utilize and extend AF Element Templates
 - Supporting data is modeled and stored as AF Attributes
 - Event Frames can refer to other AF Objects
 - Relate Event Frames through Reference Types

Demonstration

Featuring:

- Migrated PI Batches in the Event Frame Database
- Event Frame support in PI System Explorer



Current Development work

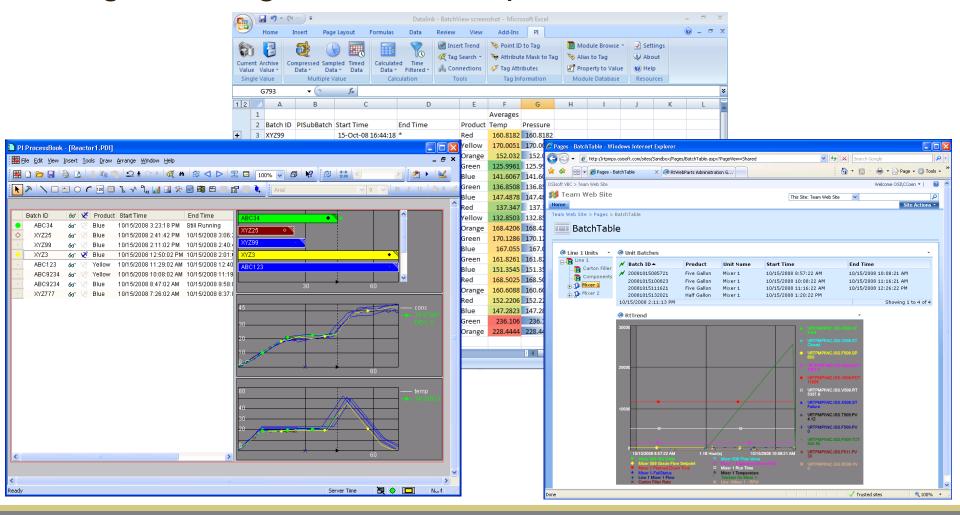
- Event Frame Infrastructure
 - Event Frames namespace in AF SDK, AF Application Server, AF Database and PI System Explorer
- Current Tasks
 - Performance testing and research
 - AF Application Server bulk operations
- Included in Platform Release 2
 - Event Frame infrastructure will be included with the AF Release for PR2

Event Frame Version 1.0

- AF Server
- Interfaces
 - All batch interfaces will write to the Event Frame Database through AF SDK
 - Generation of EFs from trigger tags and calculations
 - ACE for programmatic scheduled creation of EFs
- Batch Compatibility
 - Migration Utility
 - Batch Database Redirection
- Additional Data Access
 - AF OLEDB support
- User Experience with existing Batch Clients

User Experience

Tighter integration with all products



User Experience Research

- Analyze existing Batch Products
- Event Frames provide the time context
 - Allow visualization to be driven by the EF time context, equipment context and business process
 - Integrate external data in the context of the EF
- More Analysis Techniques
 - Facilitates analysis by comparing the like time ranges
- Creating Event Frames through our client tools

We welcome your feedback & questions



Now

Here
Product Expo
Conference

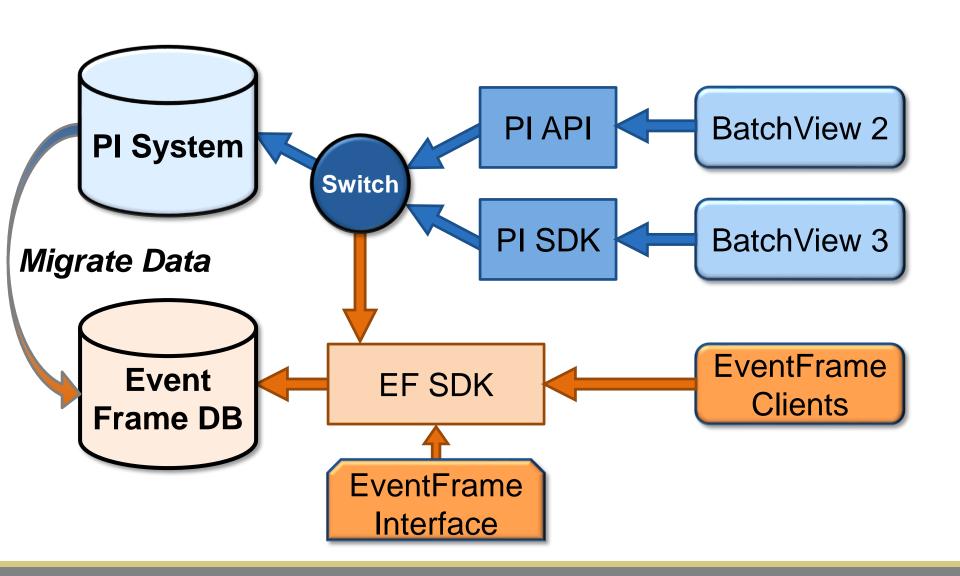
Later ccoen@osisoft.com



BACKUP SLIDES

24

Batch Compatibility – Migration Model



Event Frame Definition

Our terms

A time series data type defined by two times and optionally accompanied by supporting data

Your terms

- Represents any event in your process or daily operations; a downtime event, incident event, material transfer event, equipment maintenance event, batch processing step, a specific investigation, a six-sigma project, an electrical power outage, or a safety incident.
- Represents any time range or repeatable set of time ranges;
 shifts, day, week, month, year to date, etc.

AF-SDK Event Frame Object Review

Featuring:

- AF-SDK Event Frame Namespace
- AF-SDK Event Frame constructors, methods, properties and events

