OSISOFT ASIA TECHNOLOGY CONFERENCE 2007



Universal Platform, Infinite Possibilities

Event Framing Adding Context to Continuous data

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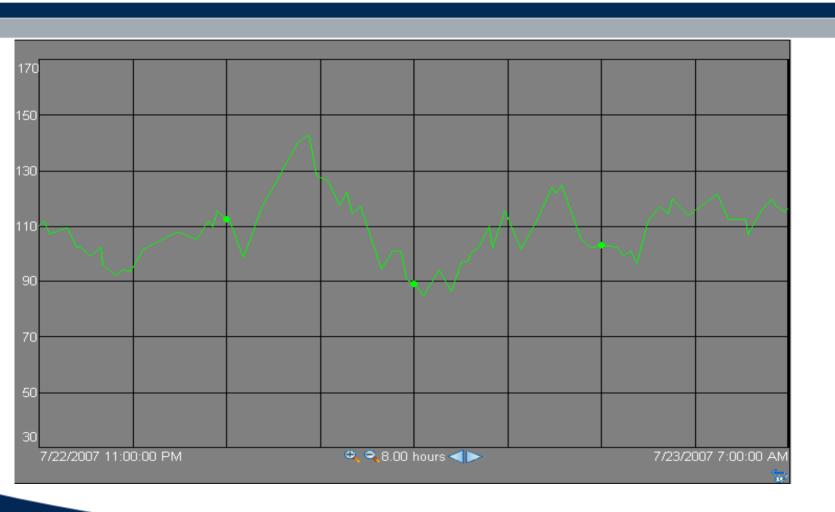


Objective

- What is Event Framing
- Framing Equipment startup or shutdown events
- Moving Forward



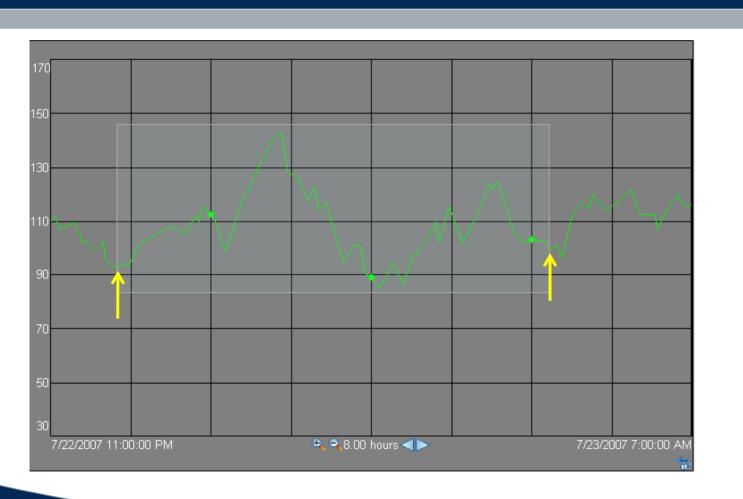
Continuous Data



OSIsoft.

Batch

OSIsoft.

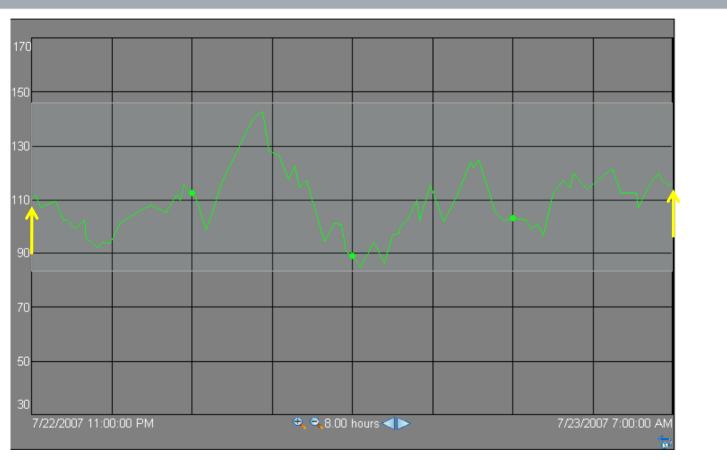






Day or Shift

OSIsoft.

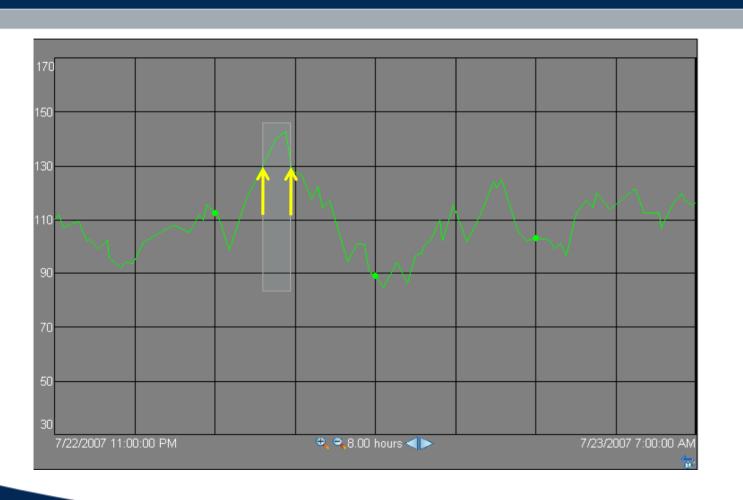






Event

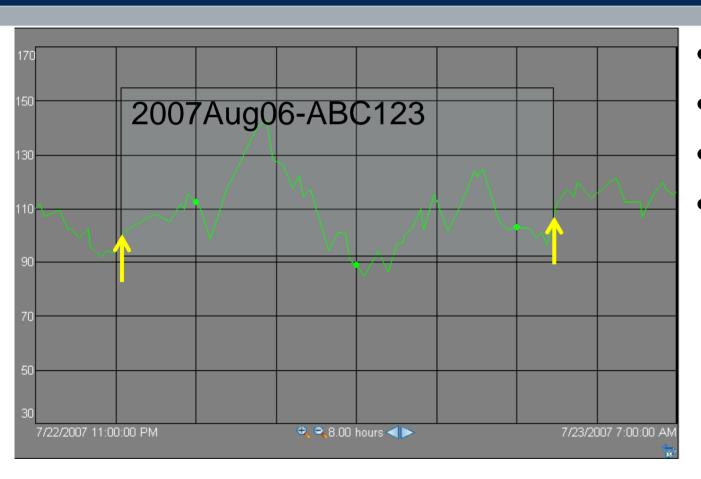
OSIsoft.







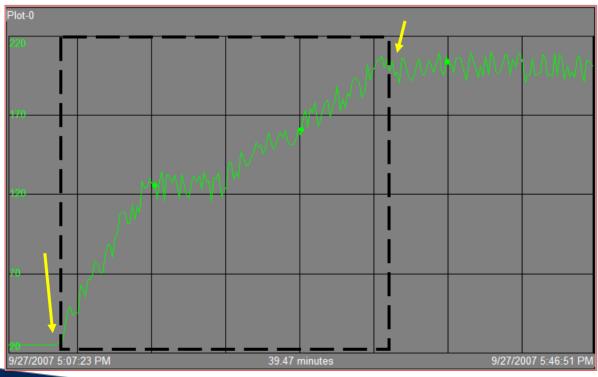
What is an Event Frame?



- Start time
- End time
- Name
- Associated data
 - Equipment
 - Tags
 - Comments
 - Event
 Frames

Example

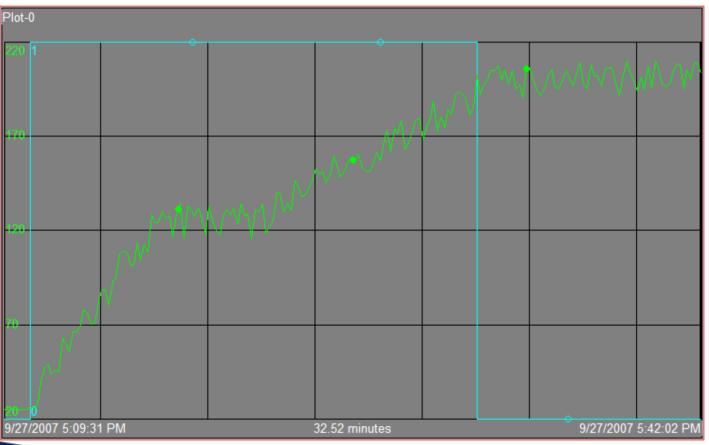
Capture Temperature Profile of Equipment start-up



VALUE NOW, VALUE OVER TIME

Example

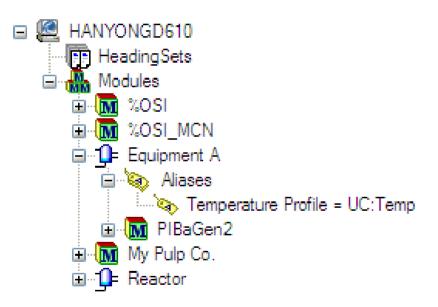
Start: Temp > 25 End: Temp Stablizes at 200



VALUE NOW, VALUE OVER TIME

Configuration

Configure Plunit in MDB for the unit





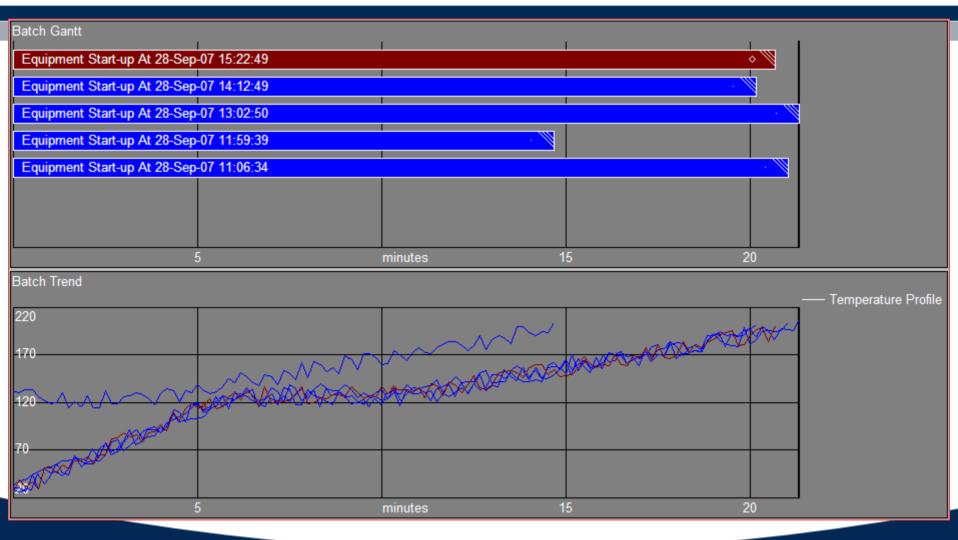


Configuration

PIUnitBatches PISubBatches PIBatches 2 Interface
Active Point UC:Startup
ActivePoint Behavior
O Pulse
◯ Step
Include zeroth state (Continuous)
Strings indicating zeroth state (example: Inactive,Stop,Off)
Unit Batch ID Point UC:Event Name
Product Name Point Enter the Product Name Point
Procedure Name Point Enter the Procedure Name Point
Evaluation Delay 10 seconds Evaluate at the end of each UnitBatch
Recovery Options Merge Consecutive
O Do not recover anything Off
Recover all PI Batch Objects Recover only PIBatches and PIUnit Debug messages
PIUnitBatches Off
Recovery time (in days) 4 O On

 Configure PIBaGen to capture the Startup event

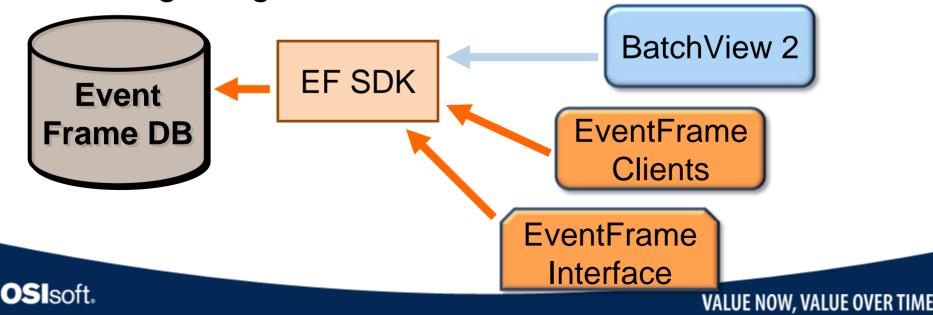
Compare Batches



VALUE NOW, VALUE OVER TIME

Moving Forward

- Event Frame Interface & Database
 - Batch generation
 - Other schema for different use case
 - Migrating from MDB to AF2.0



Moving forward

- Tighter integration with PI Analytics
- Importing Event Frames from External Sources
- Additional product feature
 - PI Notifications
 - RtReports Reporting Properties
 - BatchView Webpart



EF Business Use Cases

- Downtime\Incident\Accident\Excursion
- Discrete Manufacturing
- Transfer Records
- Semi-continuous processes
- Equipment Startup and Shutdowns
- Preconfigured Time Ranges
- Batch

Batch Customer Advantages

- More usability
 - S88 supported
 - Other schemas relax restrictions of Batch
 Database
 - Multiple active UnitBatches on a Unit
- Increase database performance
- Tighter integration with all products



All Customer Advantages

- Model more types of processes and meet data storage demands
- Customer defined vocabulary
- Segregate Event Frame types
- Historize Event Frames from external systems
- Ad-hoc Event Frames

Conclusion

