Self-service Batch Analytics for OSIsoft PI Event Frames

TrendMiner
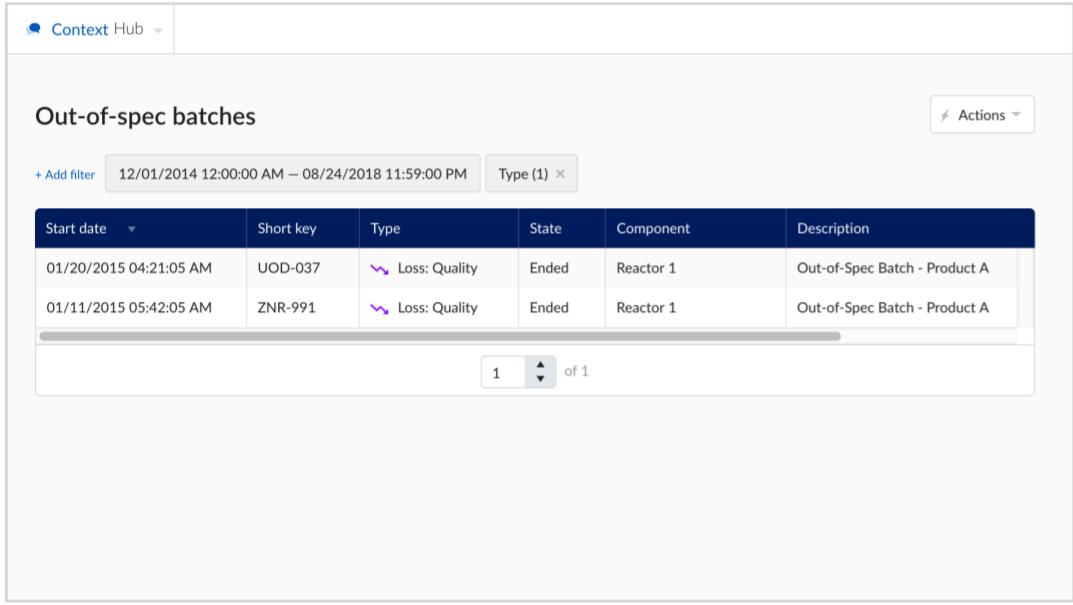A SOFTWARE AG COMPANY

OSIsoft PI Event Frames

Events are periods at which an important situation occurs during batch production of a product. Examples of events with a start and end time are; asset downtime, scheduled maintenance, process excursions, sudden temperature drop, or any other event that is of importance to capture.

The OSIsoft PI System has a feature called **Event Frames**, that enables to capture critical events as context to time-series process and asset data. The event frames have a type, name, start time, end time and other event attributes that are useful for advanced analytics with TrendMiner.
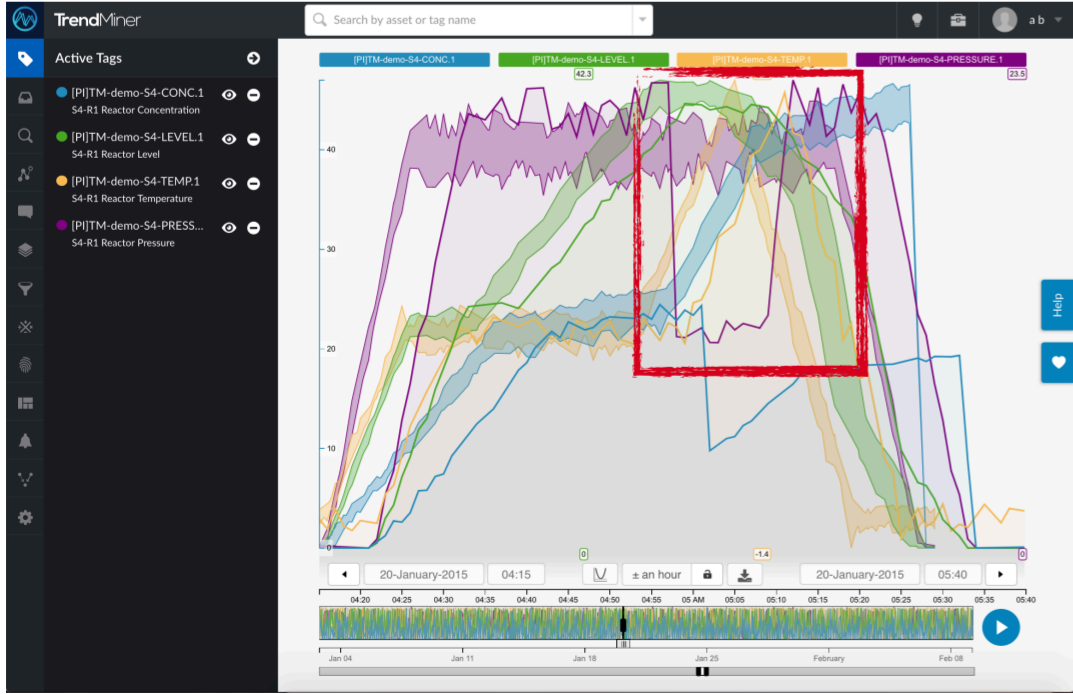
TrendMiner

TrendMiner's self-service analytics platform is based on a high speed search engine, advanced filter options and patented pattern recognition technology, to get you data-based insights that are actionable. TrendMiner speeds up your root cause analysis and helps you identify new areas for process and asset optimization.

With PI Event Frame integration, subject matter experts from batch processes can now more easily get access to their batch records information in TrendMiner, click through to the related process information and kick-start their inspection and diagnosis of eg. out-of-spec produced batches:

1 Out-of-spec batch is detected

2 The Event Frame is created in the OSIsoft PI System

3 Event Frames are automatically synced to TrendMiner's ContextHub and appear in the relevant views.

4 Visualise the out-of-spec batch of product A together with relevant process data in TrendMiner's TrendHub.

5 Add a fingerprint of the expected behaviour for a Product A - batch as reference.
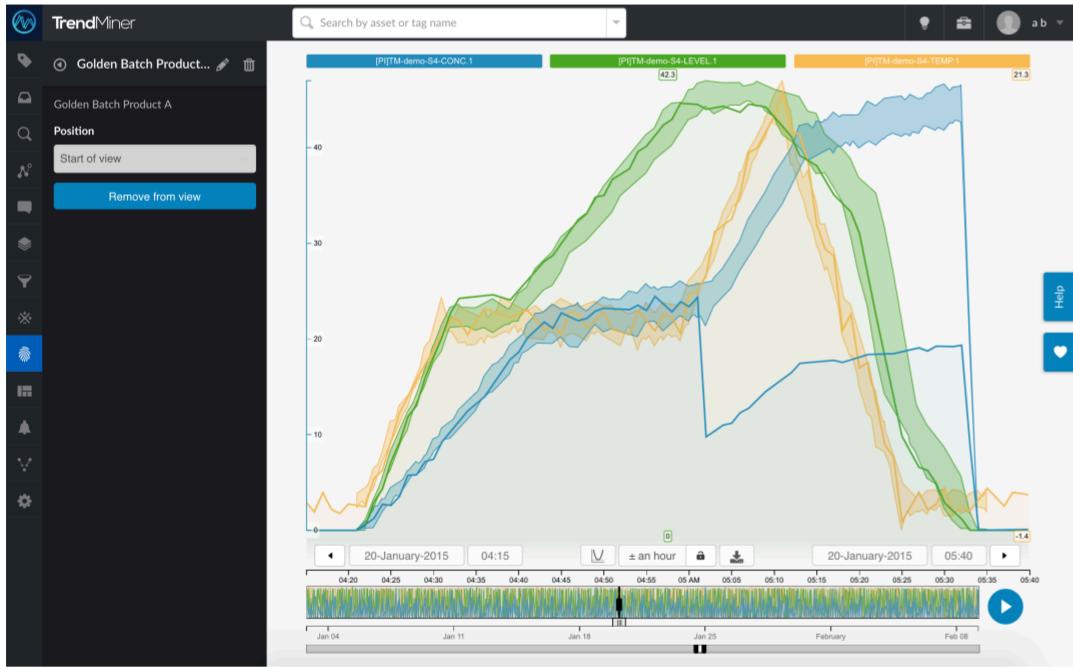
6 Use TrendMiner's Recommender Engine as your diagnostics assistant to suggest Fingerprint deviations in other relevant tags

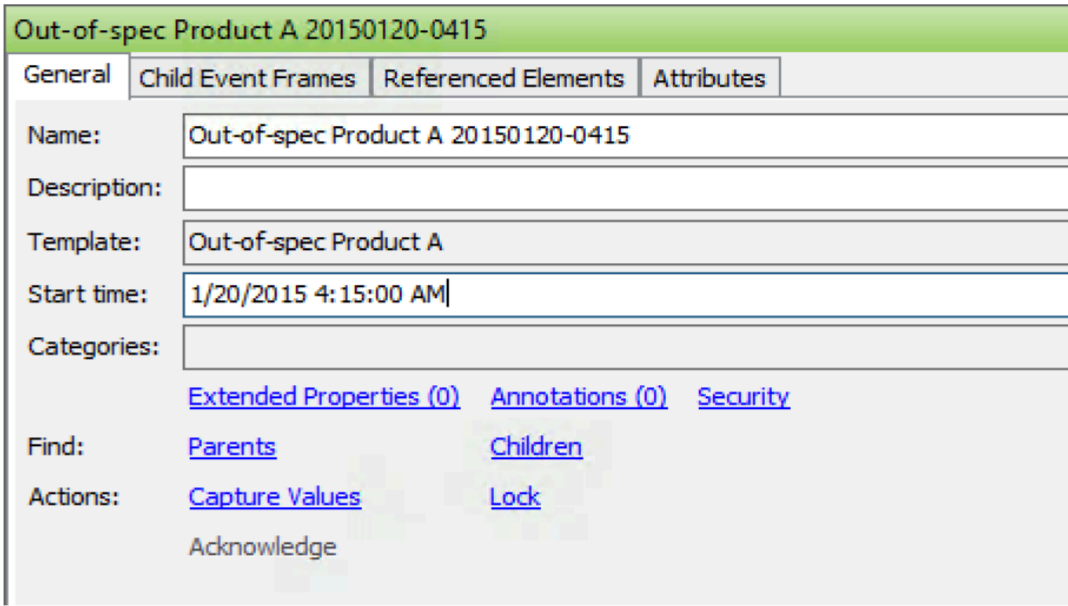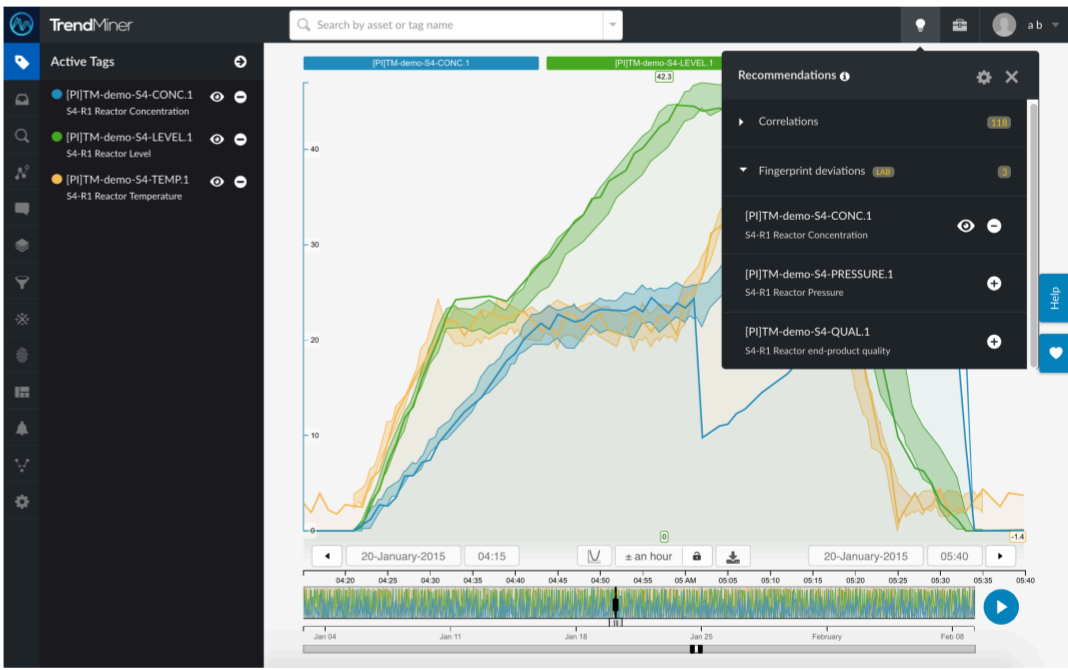**7** Add suggested tags to your chart to complete the root-cause analysis.
Notice the pressure of the batch is deviating from the expected profile right in front of the concentration drop

8 Share your knowledge about the identification of the root-cause with your co-workers

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