PI BatchView

Technical Components

PI BatchView QuickSearch: The fastest way to get batch information into the hands of users. No display or spreadsheet construction necessary.

PI BatchView PI ProcessBook™ add-ins: Batch Trend, Gantt Chart, Results Table and run-time Search. With these tools you can run simple and complex queries for batches, compare multiple batches, build trends of relevant data from these batches, perform cycle-time analyses, align your batch data and refine your search in the subbatches to perform detailed troubleshooting and process analysis.

PI BatchView Microsoft® Excel® add-in: A set of configuration dialogs and functions that incorporate batch data in standard spreadsheets. When used in conjunction with PI DataLink™, process data from your batches is repurposed and placed in context for analysis.

PI BatchView ActiveX Controls: Search and Results controls leveraging the Microsoft ActiveX® control standard, these components can be repurposed in any ActiveX Control Container application.

Business Challenge

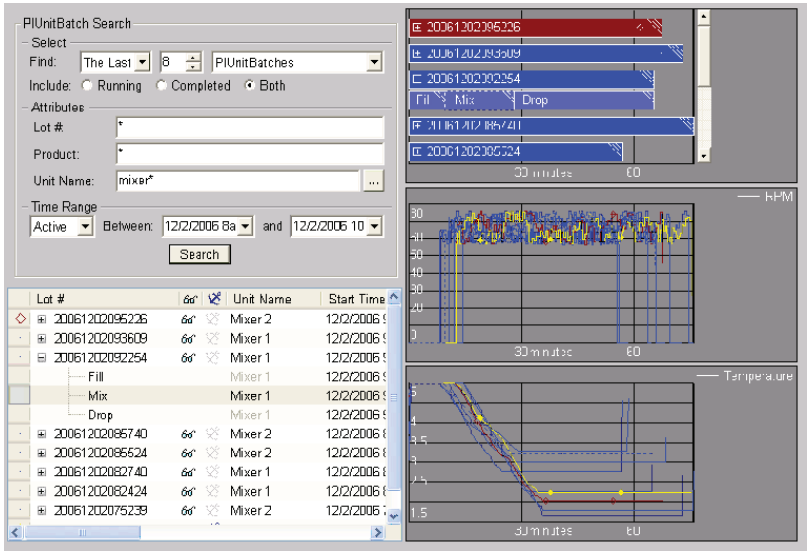
Batch Processes. Industrial manufacturing processes can generally be classified as continuous, discrete parts manufacturing, or batch. Batch manufacturing is usually extremely difficult, since the processes rarely reach "steady state" and are therefore hard to manage and optimize. Operations staffs face the challenge of obtaining timely batch information in the correct context for making on-the-fly manufacturing decisions. OSIsoft PI BatchView™ for the PI System™ gives users a global view of everything they need to take informed actions, regardless of which DCS or PLC system they use to control the units. This alone is reason enough to make PI BatchView a critical component of any world-class batch plant.

Repeatable Event Tracking and Analysis. Even in manufacturing that is not involved in batch processing, repeatable events present business opportunities. Downtime events and environmental excursions can be studied and minimized or prevented. Startups of capital-intensive processes need to be monitored for consistency, to shorten time to startup and to ensure safe operation of the equipment. Even shifts or days may represent repeatable events. PI BatchView gives users the tools and the visibility to monitor, analyze and report on information critical to understanding these events and acting to improve the business.

PI BatchView Overview

PI BatchView is a set of tools for viewing live and historical batch data in PI ProcessBook displays, Microsoft Excel spreadsheets, the PI BatchView QuickSearch application and other applications that support Microsoft ActiveX® controls. This set of technologies ensures that everyone has access to the most important batch information regardless of their chosen visualization toolset.

PI BatchView is a critical component of the PI System for anyone in event-driven industries, such as Chemicals, Pharmaceuticals, Pulp & Paper, Power Generation and others.



PI BatchView in PI ProcessBook showing the Run-time Search, Results Table, Gantt Chart and Trends. The features and screen layout show the repeatability of these processes or events.

Features

QuickSearch: Give managers and workers direct access to vast data volumes, accommodating more users, more data storage and more overall data throughput.

Excel Integration: Over 80% of industrial batch reports are created directly in Microsoft Excel. By providing integrated PI BatchView capabilities, information workers can leverage their most familiar toolset directly.

PI ProcessBook Integration: The PI BatchView tools for PI ProcessBook display historical and live batch information. Monitor running batches against completed batches, compare process variables across batches and perform cycle-time analysis.

Custom Names: Each industry has evolved their own set of terminology for batches or event frames. PI BatchView allows the end-user to customize the name set to match their company or industry standard.

Time sync for multiple batches: Batch start events can be synchronized on the screen, allowing operations personnel to more accurately gauge whether batches are proceeding correctly.

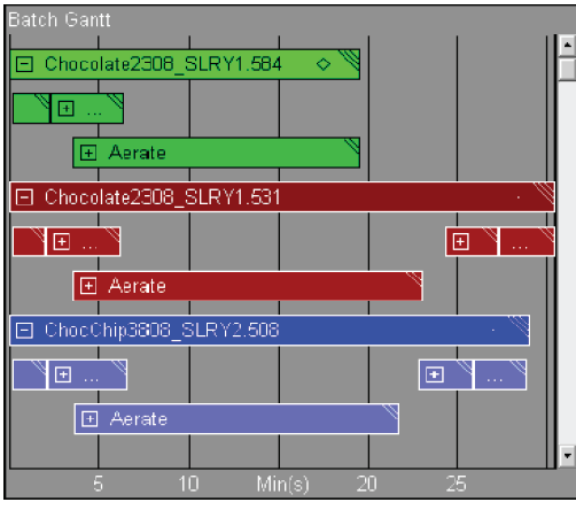
Highly Extensible: An extensive set of programmable interfaces allows PI BatchView to be used by other customer-developed programs.

Benefits

More on-spec batches. Better batch management leads to less waste, less rework and fewer product recalls or stop-shipments. Since the PI System serves as the time-series repository for all the events on the operations floor, there will be ample evidence.

Faster, better decisions. Deliver real-time and historical data from your processes quickly and securely to the right people and business roles, so they can practice sound management and make informed business decisions.

Tighter compliance. Regulatory compliance is difficult under any circumstances, but PI BatchView will help you stay on track and within procedural guidelines by making the manufacturing process more transparent to your operators.



Gantt Chart allows time synchronization and analysis of specific steps in a batch process.

About OSIsoft, LLC

OSIsoft (www.osisoft.com) delivers the PI System, the industry standard in enterprise infrastructure, for management of real-time data and events. With installations in 110 countries spanning the globe, the PI System is used in manufacturing, energy, utilities, life sciences, data centers, facilities and the process industries. This global installed base relies upon the PI System to safeguard data and deliver enterprise-wide visibility into operational, manufacturing and business data. The PI System enables users to manage assets, mitigate risks, comply with regulations, improve processes, drive innovation, make business decisions in real-time and to identify competitive business and market opportunities. Founded in 1980, OSIsoft is headquartered in San Leandro, California, with operations worldwide and is privately held.

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