Simplify Recipe Management

Having all of the procedures that an operator would normally perform locked down in a recipe saves time and helps ensure both recipe and product quality. However, the recipe itself must continually adapt to evolving consumer tastes, raw materials and environmental conditions.

The latest release of FactoryTalk Batch software simplifies the process of handling, tracking and modifying your recipe. It eases the process of modifying and creating new recipes by managing the approval process for changes and automatically tracking the evolution of recipes. It simplifies the management of recipes throughout their lifecycle, benefiting users in the pharmaceuticals, food and beverage, specialty chemicals and other batch-related industries.

Designed to support ISA S88 standards for batch control in industrial automation systems, new FactoryTalk Batch software provides the following benefits to help you specify, automate and verify your standard operating procedures for all batch processes across your plant:

- **Approval workflow:** The software incorporates a configurable recipe approval process to help ensure the consensus of all required stakeholders before releasing recipes to or from production. This enforces and logs the approvals and allows user to track recipes by where they are in the approval process.

- **Versioning and genealogy:** With new versioning capabilities, the software helps you track and manage changes to how products are made. Recipes can be protected from alterations and checked out as “work-in-progress” to create a new version. A user can also go back to an earlier version of the recipe if desired. This helps users save valuable time managing changes and tracking how a product was manufactured.

- **Simplicity:** By following Batch design best practices, a user is able to produce multiple products without needing to change their underlying automation code by simply creating new recipes. Batch management separates engineering functions from the operation and recipe builder functions, so recipe authors and builders don’t need to understand automation to configure recipe procedures.

- **Intellectual property protection:** Security-authority binding provides an extra layer of security for additional protection from intellectual property theft. Recipes and equipment configuration can be tightly controlled to help ensure important information is inaccessible by unauthorized users.

- **Scalability:** The new advanced batch software is easily scalable from fully automatic to fully manual processes and from single-unit to multi-unit distributed operations.
The FactoryTalk Batch v12.0 software is now available as part of the PlantPAx process automation system from Rockwell Automation.

For more information on the latest FactoryTalk Batch software, please visit our website.

PlantPAx Success Story

Pharmaceutical Manufacturer Implements Cost-Effective Cure for Batch and Sequence Management with Rockwell Automation

*Banks Integration Group implements PlantPAx process automation system for increased flexibility and quality*

Making medicine can often mean the difference between a productive day and miserable hours stuck in bed. While medications are often an easy fix to common ailments, those pills would be fairly useless without the active pharmaceutical ingredients (APIs) manufactured by companies like AMPAC Fine Chemicals (AFC), a subsidiary of American Pacific Corporation. AFC works with leading pharmaceutical companies to research, develop and manufacture the APIs found in many leading prescription medications that help save lives – and cure our aches.

Based in Rancho Cordova, Calif., AFCs manufacturing facilities are designed to meet a wide range of needs. The company typically manages up to 15 development projects at any given time, producing small quantities of APIs for process expansion and trial testing of new drugs. As those drugs are tested and approved, AFC moves the manufacturing process to a semiwork scale facility. Here, engineers and product development experts can cost-effectively correct process kinks to reduce waste and increase throughput before full-scale production begins.

In fact, the company typically runs multiple full, commercial-scale products simultaneously, generating multiton quantities of APIs that are shipped in bulk to pharmaceutical companies around the globe. These pharmaceutical companies then incorporate the APIs into digestible form.

To increase its long-term competitiveness, AFC wanted to upgrade its single-product semiworks facility to a midscale production facility capable of producing a variety of products. Unfortunately, the existing control infrastructure was based on a hard-coded control system from the 1990s that limited AFCs ability to quickly and easily adjust programming and production – a requirement for the company as it moved the facility to multiproduct production.

As part of the plant upgrade, AFC wanted the facility to provide a new manufacturing capability: the production of regulated materials such as controlled substances. Doing so would require an updated process control system that could meet the regulatory requirements and increased security demands for production of such materials.

To identify, engineer and install a flexible, cost-effective solution, AFC worked with its long-time automation partner Banks Integration Group, a Rockwell Automation® Solution Provider.

The team at Banks Integration Group, led by senior project engineer Neal Yates, determined that the PlantPAx process automation system from Rockwell Automation would be the ideal control solution for the project. The PlantPAx system is a scalable, open and unified process, discrete and information solution based on the Rockwell Automation Integrated Architecture® platform.

As Banks Integration Group began outlining the new system architecture, Yates attended the Process Solutions User Group (PSUG) at the annual Automation Fair® event, where he learned about a new solution that could be an ideal fit for the AFC facility migration.

With the new system, plant operators at AFC have reduced their use of manual, paper-based batch sheets for detailed processing instructions, thanks to an automated solution embedded directly into the control system. “With the automated batch solution from Rockwell Automation, we’re improving the quality and consistency of our APIs, and avoiding the delays that naturally occur during manual operations.”

Working with a partner like Banks Integration Group helped the project come in on time and on budget, despite the midproject change of scope.

“The Rockwell Automation solution allows us to meet customer needs more quickly than our competitors, while still staying in full compliance with industry regulations.”

Read on to learn more about the Rockwell Automation solution delivered to AFC.
Product and Service Highlights

Automation Fair Product Showcase
The Product Showcase includes information on new offerings from Rockwell Automation and its PartnerNetwork™ that will be exhibited at the Automation Fair event.

To save your favorites and create your own personal agenda for the event, log into the Automation Fair web portal.

When selecting an action that requires you to sign-in, you will be re-directed to the full event web portal view, giving you an opportunity to sign-in and save your selections. If you have trouble viewing the page, please visit the web portal.

Educational Tools
Now Available

Join the Conversation: Rockwell Automation blog connects you to thought leaders and peers

Stay up-to-date with what is happening in your industry right now – and use that information to get ahead in the future. The new Rockwell Automation blog hosts opinion pieces offering a unique view and insights into technology and industry-related trends. Frequently updated and offering a global perspective, you can read up on a vast array of timely and on-trend topics about the automation industry, and share the posts you enjoy over your favorite social networks.

PlantPAx Design
Considerations Manual

Now available, the PlantPAx Batch Design Considerations Manual, illustrates best practices for implementing batch management within you application.

Partner Highlights

Molex Incorporated

Molex Incorporated has announced the expansion of its line of SST Communication Modules with the launch of its new CLXT Modules, designed for use with Rockwell Automation ControlLogix-XT PAC/PLCs in harsh and corrosive industrial environments.

Engineered to withstand the toughest environmental conditions, the new CLXT Modules for Allen-Bradley ControlLogix® from Rockwell Automation are available in three versions: the SST-ESR2-CLXT Module for Ethernet and Serial Connections, the SST-SR4-CLXT Serial Communication Module with four Modbus serial ports and the SST-PB3-CLXT-RLL for PROFIBUS Master/Slave applications. All versions feature wider temperature ranges, conformal-coated boards and harsh-duty components. All of these modules are currently shipping with the latest firmware releases, debuted at Automation Fair 2013.

The new modules are built to perform reliably in oil and gas plants, oil drilling rigs, wastewater treatment sites, steel mills, automotive manufacturing plants and other industrial sites where the presence of caustic or corrosive chemicals can threaten the integrity and performance of sensitive electronics.

For more information about Molex SST™ Communication Modules and new CLXT Modules for use with ControlLogix-XT PLCs, click here. To receive information on other Molex products and industry solutions, please sign up for an e-nouncement newsletter from Molex.

Global Events 2014

Join Us at the Process Solutions User Group Event

November 17 and 18, 2014
Anaheim Convention Center • Anaheim, CA

The Process Solutions User Group (PSUG) event promises to be a great opportunity to engage in face-to-face interactions with industry experts, learn best practices from your peers, and voice your opinion in driving development priorities for the PlantPAx process automation system. Room to room, covering 7 labs, 21 Technical Sessions and 23 Customer Application Sessions, this is the perfect venue for sharing ideas and learning about the newest technologies.

Each day is filled with ways to help you solve your business challenges and showcases keynote speakers. On Monday, Thomas Frey, Executive Director and Senior Futurist, DaVinci Institute, will present “The Future of Work.” On Tuesday, specialists from Rockwell Automation will present “PlantPAx: Delivering Value” and “PlantPAx and Process Solutions Roadmap.”

REGISTER NOW: Total cost for this two-day PSUG event is only $499.00.
Automation Fair® 2014

November 19–20
Automation Fair® 2014 – Anaheim, CA, USA

Come to our premier automation industry event. Attend industry forums, hands-on labs, workshops, tech sessions and demonstrations to expand your knowledge and use the latest control, power & information technologies.

With over 100 exhibits, take advantage of automation expertise from Rockwell Automation and our PartnerNetwork™, providing comprehensive solutions from industry leaders in distribution, systems integration, machine building, and complementary technologies.

REGISTER NOW

December 2 - 5, 2014
OSA2014
Marina Bay Sands, Singapore

Rockwell Automation will be exhibiting this year in Stand 3C8-06.

December 9 - 11
POWER-GEN International
Orlando, FL, USA

Visit Rockwell Automation in Booth #615 for your Power Generation Solutions. You’ll discover solutions that can help you improve uptime, increase asset availability and meet regulatory compliance.

Get a Free Registration Code
Click here for more information on Power Generation

November 10 - 13, 2014
Abu Dhabi International Petroleum Exhibition & Conference (ADIPEC 2014)
Abu Dhabi, UAE

Rockwell Automation will exhibit this year in Hall 1 Stand 1320.