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## Batch Process Skid Solutions

### Mixing & Blending Control System Solutions for OEMs

As a process equipment builder, you are challenged to differentiate yourself amidst global competition and rapidly evolving technology. Process applications demand equipment that combines high production output, consistent reliability and product quality with low manpower requirements and maintenance costs. Flawless product quality is a key priority.

Whether measured from a business, commercial or technical perspective, Rockwell Automation can help improve your process equipment performance with solutions and services to lower the Total Cost to Design, Develop, and Deliver® equipment that meets your customers' requirements.

When you follow ANSI/ISA-88 (S88) design standard for batch process control, your customers benefit from immediate access to valuable product context information, such as remote commands and process tracking data. In addition, helpful status parameters such as skid performance, clean-mode status, or sterilization, can also be easily addressed.

### *OEM Challenges/Trends*

Traditionally the design of a control system depended on the end user's requirements. Therefore, all the possible control logic in the PLC depended on the various end users' requirements. Re-engineering, testing and commissioning were required for equipment delivered to different end users resulting in excess costs in time and resources.

By customizing the code on the various end-user requirements, the design and configuration of single device control is also a challenge. It takes time and effort to design a motor/valve/transmitter control block in the PLC which is modular, duplicable, contains powerful function, consumes a reasonable amount of resource, and more importantly, a respective user friendly HMI faceplate which links to the control block. Additionally, it is more difficult to design a standardized code between device control and sequencing control.

### *Rockwell Automation Solutions*

When you follow ANSI/ISA-88 (S88) design standard for batch process control, devices are configured as control modules, and grouped as equipment modules based on function groups. The sequencing of each equipment model is configured in Phase, and phase logic doesn't change much except changeable parameters via HMI.

Standard software structure which can be easily replicated and expanded can reduce engineering, commissioning and testing (validation) effort. When programming the controller, the control module and equipment phase level need to be programmed. Depending on the complexity of the manufacturing process, the end user is free to design the sequence of phases in the recipe level during commissioning and anytime later.

For a mixing & blending system, Rockwell Automation has developed a sample program (application template) which utilizes several technologies to demonstrate how we can help address common challenges.

In addition, Rockwell Automation Studio 5000® software code structure is S88 batch compliant. The control modules and equipment modules of a mixing & blending system are structured in a clear way. The structure is easy to understand and duplicable to adapt to logic changes.

The control modules use the Rockwell Automation Library of Process objects, which consists of logic blocks for the controller and faceplates for the HMI. The Rockwell Automation Library of Process Objects is designed to maximize design and application development efficiencies while offering enhanced information to the operator. It allows the user to configure a control application using pre-defined objects rather than having to rely on repetitive programming.

The phase logic for equipment modules and links to control modules are also programmed in the controller. The phases can be managed by recipes later. This enables the OEM to deliver the standard mixing & blending system with a recipe manager in the human machine interface (HMI).

As “one size does not fit all” when it comes to batch and sequencing, Rockwell Automation offers a scalable solution through its Logix Batch & Sequence Manager. This flexible, controller-based batch & sequencing solution is independent of application servers and software.

Sequences and formulas can now be configured directly in the controller through a standard HMI interface without requiring code changes to the system. It is ideal for applications that require sequence management capabilities, but are not complex enough for a server-based batch software package. It uses the same configuration, networking and visualization environment as larger-scale systems, enabling local single unit supervision and control, while supporting multiple, independent units in a single controller.

Learn more about the batch process solutions Rockwell Automation offers for mixing and blending skids and read the OEM customer case study by downloading the [full whitepaper here](#).

## PlantPax Success Story

### Volcan Mining Improves Production with PlantPax® System



Part of a major mine and plant network, Volcan Mining Company's oxide processing plant is located in difficult-to-access Peruvian terrain, high above sea level. That made the local support services provided by

Rockwell Automation a big draw when implementing a new control system. The plant uses the PlantPax Distributed Control System with redundant processors, HMI servers and a historian for insight and reporting over Ethernet/IP across plant locations. This tight integration allows for better visibility and communication among controllers, which ultimately led to less downtime and increased production.

To view the short video, please [click here](#).

## Product and Service Highlights

**PlantPax**  
Distributed Control System

### PlantPax® System Estimator Update

One of the most valuable tools available for a PlantPax Distributed Control System is the PlantPax System Estimator (PSE) which is a part of the Integrated Architecture Builder (IAB) software. This PSE helps ensure that design teams can be more accurate with material and footprint requirements early in the project estimation phase.

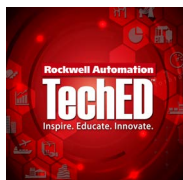
The latest release is now available with the following features included:

- New virtualization sizing calculations
- Enhanced assignment of I/O to Intelligent Motor Controls
- New ability to add network switch to controller and I/O locations
- FactoryTalk® Historian and FactoryTalk® AssetCentre are now default on new systems
- Updated controller sizing footprints

The free update can be obtained with the Current Updater application that is integral to the Integrated Architecture Builder. [Click here for more details](#).

## Educational Tools Now Available

### Rockwell Automation TechED™ (formerly RSTechED)



Thank you to everyone who attended TechED this year!

Attendees of more than 2,000 end user customers, system integrators, distributors, technical consultants and employees from around the globe gathered in San Diego, California, for the 18th annual Rockwell Automation TechED.

If you missed the event this year, find out why you should attend in 2016. [Visit our webpage](#) to view all of the event presentations including our Keynote presentation entitled "Smart Manufacturing: The Future is Now."

## Partner Highlights

### Maverick Technologies



The PartnerNetwork™ program provides an integrated team of system integrators, machine and equipment builders, and best-in-class suppliers who work collaboratively to solve manufacturing and automation challenges. The program helps deliver innovations in project design, simplify the supply chain, and improve ROI on automation investments.

Solution Partner, OEM Partner and Encompass Partner members are available in more than 80 countries to help customers efficiently move toward an information-enabled Connected Enterprise.

The Solution Partner program has expanded recently to include [Maverick Technologies](#), the largest independent systems integrator in North America, and a global leader in industrial automation, enterprise integration and strategic manufacturing solutions. Maverick works with customers across a wide range of manufacturing and process industries – from oil and gas to food and beverage. Solution Partner members are trusted, proven and established companies that offer demonstrated experience and knowledge in design, implementation, project management and maintenance of industrial control systems.

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## Global Events 2015

Mark Your  
Calendars!

September 8 – 11, 2015  
[Offshore Europe](#) – Aberdeen, UK



September 26 – 30, 2015  
[WEFTEC](#) – Chicago, IL, USA



September 28 – 30, 2015  
[Pack Expo](#) – Las Vegas, NV, USA



November 16 – 17, 2015  
[Process Solutions Users Group \(PSUG\)](#) – Chicago, IL, USA

### Registration will open soon!

Discover what Rockwell Automation can deliver to help optimize your process world. PSUG gives you the chance to interact with more than 800 attendees from around the globe and expand your industry knowledge at our annual PSUG meeting.

- Attend educational sessions
- Listen to industry leaders
- Share best practices
- Influence system development priorities
- Network with users from around the world



Then extend your experience at Automation Fair® on November 18 and 19. It's the industry's premier event on advanced automation technologies, integrated control and information architecture, and a wide variety of smart, safe, sustainable manufacturing solutions. We are dedicated to serving our customers to the best of our ability. Don't miss out on the unique opportunities available at PSUG and Automation Fair®. Mark your calendar now.

November 18 – 19, 2015  
[Automation Fair](#) – Chicago, IL, USA

[Download the Save the Date Flyer!](#)

