technical session preview

Join us online for ROKLive Virtual, featuring the newest technology and advancements for digital transformation.

ROKLive Virtual offers keynote presentations, technical training, interactive hands-on labs, a virtual trade show, and the ability to connect and network with peers and experts in the field.

Registration is free, but is required to attend. More details will be available in May.

Training and Development

ROKLive will feature over 40 interactive training sessions designed for automation and controls engineers.

These technical training and development sessions will focus on the following areas:

- Control
- Digital Engineering
- Information Solutions
- Networks
- Power, Motion and Motor Control
- Process
- Safety and Security
- Solutions and Services
- System
- Visualization and Collaboration

Additional sessions and scheduling will be announced soon.

Learn more about the event
Visit rok.auto/roklive for more event details.
CL01 - Smart Devices: Enabling The Connected Enterprise
In this session, you will learn how maximizing the information from industrial machines and equipment is the key to optimizing production. Today that information is more readily available than ever before by extending the reach of data down to all the devices installed. With Smart Devices, you can get the insight to what is happening, where this information can make the difference between scheduled maintenance and an unexpected shutdown. This session will cover the value of incorporating intelligence into industrial machines and equipment by using Smart Devices.

CL02 - Discover the Value of Scalable Compute
This session will introduce and demonstrate the capabilities of our scalable compute technology. The 1756 compute module and CompactLogix™ 5480 controller will be the focus of this session and attendees will get hands-on experience using and configuring the Application Program Interface (API). Learn the power of Logix and Windows software together. The presentation will cover target applications, features and a demo showing typical use cases.

CL03 - What’s New and Notable in the Integrated Architecture® System
This session introduces the new key products and features recently released and is a preview of future enhancements to the Integrated Architecture® system. Topics covered include updates to our Logix controllers, I/O, networking, safety and motion products.

CL04 - Integrated Architecture® System Software - What’s New
Attend this session to learn about the latest developments to the Studio 5000 Automation Engineering & Design Environment®. Hear where we are going, and how we can help reduce your engineering time, reduce risk and increase your productivity.

CL06 - Improve Operational Efficiency and Help Protect Your Instrumentation Investment
Discover FLEX 5000™ HART I/O modules with Premier Integration to simplify configuration and management of HART devices directly online from a Studio 5000 Logix Designer® application. Learn how increased visibility to real-time diagnostics helps to reduce downtime and unnecessary shutdowns. See how smart data improves safety and maintenance.

CL08 - Studio 5000 Logix Designer® Application: Overview & Demo
Want to learn more about the Studio 5000 Logix Designer® application? Learn how a focus on productive design allows users to create projects that are efficient, supportable and scalable. This session will provide an overview of the Studio 5000 Logix Designer® application and demonstrate examples of code creation, project troubleshooting and even collaborative engineering.

DIGITAL ENGINEERING

DE01 - Digital Engineering Capabilities Overview and Demonstration
Digital design can help to compress development cycles, accelerate time to market, decrease commissioning costs and mitigate risk. This session will cover topics on concurrent development of electrical, mechanical and control systems and the role simulation plays in delivering design insights earlier.

DE02 - Overview of Virtual Commissioning Using Emulate3D™ Software
Ever dreamt of being able to develop and debug control code before the piece of equipment to be automated is even built? Join this session and see exactly how this can be done by connecting your programmable automation controller to a 3D digital model of the equipment using Emulate3D software. See how simulation can reduce investment risks, improve time to market and increase understanding and how virtual reality can extend that understanding into a fully immersive experience.

DE06 - Simulation and Optimization of Lines Using Line Balancing, LogixAI® and Smart Object Technologies
Visualize the power of process simulation and optimization using a Digital Twin. See smart objects, Emulate3D™, and line balancing application technologies manage speeds and behaviors of lines for Consumer Packaged Goods.

INFORMATION SOLUTIONS

IS01 - Monetizing Business Outcomes with FactoryTalk® InnovationSuite Industrial IoT Platform
See how you can show the real value of OT/IT integration in a digital transformation using FactoryTalk® InnovationSuite. When you combine the operational expertise and analytics capabilities that Rockwell Automation brings together with the ThingWorx IoT platform, and augmented reality options with Vuforia, there are measurable business outcomes. See specific use cases that show returns on investment and opportunities for new business models developed from transformation.
IS02 - Using Manufacturing Execution Systems (MES) as a Critical First Step in Digital Transformation
Gain deeper insights into your operations using a modern manufacturing execution system with decision-making analytics. Respond with speed, flexibility and agility to meet production deadlines and deliver a quality product. MES provides the product contextualization "hooks" to look at the quality and performance of your plant and how production is affected throughout the manufacturing lifecycle, from ERP to production to shipping.

IS03 - Simplifying Analytics at the Edge for Real-time and Predictive Decision-Making
It's imperative to get the information you need where you need it and as close as possible to where it can have the greatest impact. By getting contextualized information at the edge to do analytics, you can achieve significant savings in cost and time. Learn how to leverage automated machine learning to train a model with LogixAI® and how to operationalize machine learning with FactoryTalk® Analytics™ Edge to deliver real-time predictive analytics. See how we've made integrations of FactoryTalk® Historian and ThingWorx simpler and faster.

IS04 - Machine Learning Options from Edge to Cloud
Predictive maintenance is not a thing of the future, it is possible today and can take many forms. Rockwell Automation has many solutions that utilize machine learning in a device, or as part of a platform to provide predictive and prescriptive maintenance information to help reduce downtime and improve performance.

IS05 - Empower Your Workforce and Help Reduce Downtime with Augmented and Assisted Reality
Smart workers require new technologies to learn, distribute knowledge and execute critical procedures correctly in the shortest time. See how augmented reality (AR) can be used to improve quality, safety and worker productivity, while increasing efficiencies and reducing downtime. You will realize the value AR can provide in an industrial environment via AR work instructions, maintenance, safety and training.

NT01 - Fundamentals of EtherNet/IP IIoT Network Technology
This discussion will review the capabilities and features of EtherNet/IP, including an overview of networking technology and terminology. Learn how the Common Industrial Protocol (CIP) fully uses the Open Systems Interconnection (OSI) 7-layer reference model and enables the Industrial Internet of Things (IIoT).

NT03 - Design Considerations for Reliable EtherNet/IP Networking
This discussion will review the considerations to help you design and deploy a scalable, reliable, safe and future-ready EtherNet/IP network infrastructure. Topics will include segmentation techniques, data prioritization, resiliency, structure and hierarchy. A prior understanding of general Ethernet concepts, or attendance of the Fundamentals of EtherNet/IP Network IIoT Technology session is recommended.

NT05 - Applying EtherNet/IP Network Features for High-Performance Machine-level Architectures
This discussion reviews what to consider to successfully design and deploy high-performance EtherNet/IP features such as: Gigabit Ethernet, Direct Device Level Ring (DLR) to meet machine level network topology needs and Network Address Translation (NAT) to enable application code reuse. Discussions will also include recommendations for architectures that include real-time applications such as motion control and switch selection considerations. A prior understanding of general Ethernet concepts, or attendance of the Fundamentals of EtherNet/IP Network Technology session (NT01) is recommended.

NT06 - The Next Phase of the IT/OT Integration - Extending IT Security to the Cell/Area Zone of the Plant Architecture
This session will review the extension of IT security strategies into the cell/area and IACS devices, and how today's network infrastructure will evolve and adapt to tomorrow's requirements and threats. Topics include enhanced remote access, network and security health monitoring, access control and role-based segmentation in a structured, scalable manner.

PM01 - Kinetix® Motion Control, iTRAK® and MagneMotion® Intelligent Track Systems - What's New
Learn about the latest innovative Kinetix® 5100 drives, TLP motors, hygienic motors, expansion of the Kinetix® 5700 portfolio and our single motor cable options. This session will also cover proven application examples using independent cart technology and the enhanced value it can bring when combined with The Connected Enterprise technologies. You will learn about the unprecedented flexibility, precision and speed of the iTRAK® system and the information technologies that can be integrated to maximize your return on investment.
PR02 - The Modern Distributed Control System - What's New

The newly released PlantPAx® 5.0 DCS, the flagship system from Rockwell Automation, uses a plant-wide approach that scales from skids to large operations and provides actionable information for data driven decision making across your enterprise. Learn how this modern approach to a DCS with the addition of new workflows, controllers and availability features helps streamline projects and reduce engineering efforts. As part of this session, you will also be introduced to the latest release of FactoryTalk® Batch v14 which adds online functionality for those industries looking to address complex batching applications.

PR03 - Expect More from Batch Systems - What's New

Today’s dynamic production climate presents multiple challenges: control costs, mitigate risks, and seize every opportunity to gain a competitive edge. The latest release of Rockwell Automation flagship batch offering, FactoryTalk Batch v14, helps user in both hybrid and batch applications tackle these challenges with an easily scalable system that focuses on improving operator effectiveness and higher throughput. You will be introduced to the latest release that offer online functionality for complex applications and promotes integration of information with DCS and MES systems.

PR05 - Alarm Methods to Improve Operator Response in Abnormal Situations

Not only do alarms play a crucial role in responding to unsafe conditions, proper analysis of these systems with human interactions also leads to improved operations. The ISA-18.2 Alarm Management Lifecycle is the proper path to follow to minimize nuisance alarms, alarm overload, alarm floods and to ensure alarms are prioritized. This session will highlight key considerations for DCS users when designing and implementing an effective alarm management program. While reviewing each portion of the lifecycle, users will be presented with guidance and demonstrations on how to leverage PlantPAx® DCS alarm system features as well as exida SILAlarm tool. Topics that will be addressed include using alarm rationalization results to present alarm response procedures to the operator, alarm suppression, alarm shelving and flood reduction.

PR06 - Analytics for Process Control

Learn how the Rockwell Automation PlantPAx® DCS will enable PTC Vuforia to gain access to live and historical data and bring to life feature rich dashboards along with advanced analytics. Through demonstrations you will see how PlantPAx can be utilized within Vuforia and how control strategy within an augmented reality can simulate actionable faults and analytics.

PR09 - Modernization and Migrations from Legacy DCS Platforms

In today's dynamic manufacturing environment, companies are constrained by limited capabilities of their legacy DCS and their ability to support these legacy systems. This session explores the barriers and benefits of modernization, valuable methodologies, execution practices, and tools that assist in planning, budgeting and replacing legacy DCS systems. We will explore how different outcomes gained during a modernization will enable your digitization, optimization and analytic strategies of the operation. These additional benefits can help reduce the risk during the project and ongoing production while accelerating the ROI.

PR14 - Visualization and UI Methods to Improve Operator Responses in Abnormal Situations

The typical plant operator must interact with a variety of interfaces such as process displays, trends, videos and alarm lists throughout a shift. Navigating these effectively in abnormal conditions can become paramount safety issues. This session will provide an approach for applying the ANSI/ISA 101 standard concept to design systems, with a focus on display design and hierarchy. Learn how to design an effective operator interface to assure your operators are controlling your processes safely while meeting production and quality targets.

SS01 - Safety System Development Process and Configuration Tools Overview

This session will show you how to reduce development time of safety systems using the safety lifecycle and tools from Rockwell Automation. You'll determine return on investment for safety projects, design safety systems and functions, select appropriate safety devices, and ensure that your system meets global safety standards.

SS02 - Safety Automation Architectures - What's New

A number of new products have emerged this year improving the flexibility, scalability and productivity of safety systems. This session will showcase new products and applications including integrated controllers, new FLEX 5000™ and in-chassis I/O and components.
SS05 - Cybersecurity for OT Systems: Why? And Where Do I Start?
Securing The Connected Enterprise requires a holistic defense in depth approach that provides insights that improve your bottom line. This discussion will address various system level scenarios with consideration to the attack continuum: Help prevent, detect and respond. Attendees will better understand how to best utilize the breadth of solutions offered by Rockwell Automation and members of the PartnerNetwork. In addition, learn about developing standards and regulations around security and the Rockwell Automation approach for building security into products.

Control system security is traditionally addressed by defense in depth architecture, with multiple layers of security. As threat actors have become more sophisticated, CIP-connected devices must be able to defend themselves. This session explains how CIP Security helps enable devices to protect themselves from malicious attacks focusing on authenticity, integrity and confidentiality.

SOLUTIONS AND SERVICES

SV01 - Achieve Smart Manufacturing by Embracing Modern Technology
Discover how to modernize your control system for better performance, greater flexibility and more informed decisions. Learn about available upgrades for controllers, HMI, I/O, drives, components and networks to optimize machine performance. Couple hardware with software, migration wizards and other easy-to-use tools to gain efficiency across your automation investment.

SV02 - Develop a Workforce Development Strategy that Works for You
Manufacturers have been facing the industrial skills gap for years - and it’s only going to get worse. The good news? There are many ways to mitigate workforce challenges. Learn how to develop a workforce development strategy and some of the ways you can take action today, from e-learning to remote and managed support.

SV03 - Best Practices to Deploy and Manage a Secure and Robust Infrastructure
Time is of the essence when protecting your organization from complex cyber threats. The clock doesn't start when you have been breached. It's always ticking. Now more than ever security should be built into your network infrastructure. Learn the steps to design, deploy, maintain and improve a secure, robust infrastructure over time.

SYSTEM

SY01 - Studio 5000® Application Code Manager: Introduction and Demonstration
This session demonstrates the Studio 5000® Application Code Manager (ACM) capability. Learn how to quickly build your automation projects using reusable code stored in libraries. See how configuration, not programming, is used by selecting library objects (control modules, equipment modules, etc.) and providing configuration data, such as object name and descriptions, equipment set points, control interlocks, I/O mapping, etc., required for your project. Once all the configuration, not programming, is provided the project will be built (ACD file) which can be downloaded to a controller.

SY02 - The Future of Software Purchase and Maintenance
Learn how new software offerings and license management capabilities from Rockwell Automation can help your organization mitigate risk and maximize flexibility. Key topics include: perpetual verses subscription verses SaaS software models, license management capabilities, streamlined software activation and integrated support.

SY03 - ThinManager® Architecture and Best Practices
Thin client architectures can help reduce cost of ownership and support while enhancing security and availability of information and insights. Learn how ThinManager® services and thin client architectures help secure your digital infrastructure by reducing the attack surface, centralizing access control and simplifying lifecycle support.

SY04 - ThinManager® Delivering and Managing The Connected Enterprise
The ThinManager® platform is designed to simplify the way productivity content is delivered and devices are managed within manufacturing environments. Learn how ThinManager® software can revolutionize everything from the plant floor to the control room, change the way you view mobility in those areas, and deliver and manage The Connected Enterprise today.

SY05 - Utilizing Smart Objects and FactoryTalk® Linx Info Gateway to Create Plant Energy Models and Leverage PTC ThingWorx for Visualization and Analytics
Learn how smart objects attached to application libraries are used to automatically extract device information like energy. The FactoryTalk® Linx Information Gateway discovers the energy data in Logix Controllers and generates a plant energy model that is pushed into PTC ThingWorx for visualization and analytics.
SY06 - ControlFLASH Plus™ Overview and Demonstration
This session will introduce and demonstrate the capabilities of ControlFLASH Plus™ V2.00.00. Learn how it seamlessly integrates with the Product Download & Compatibility Center (PCDC), provides better usability, makes you more productive and simplifies your experience with managing firmware. Whether you are an OEM, SI or end-user, you will find this session beneficial. In addition, learn about planned enhancements for release V3.00.00 and tell us what enhancements you would like to see in the future.

SY07 - How Can FactoryTalk® AssetCentre Help Me Save the Day?
On the plant floor, many unplanned events can happen: devices fail, people make unauthorized changes, etc. Learn how FactoryTalk® AssetCentre can help you save the day by quickly responding to these events. Learn about FactoryTalk® AssetCentre's core functionality, which includes version control, audit information, security, reporting and automated backup and compare of plant floor devices like: Logix controllers, PowerFlex® drives, and PanelView™ Plus graphic terminals. Discover how you can use FactoryTalk® AssetCentre's Asset Inventory Agent and Product Compatibility and Download Center integration to make more informed asset lifecycle decisions. Find out how FactoryTalk® AssetCentre is changing to embrace evolving industrial security architectures.

SY08 - Implement Premier Integration
We know that efficiency is the name of the game and this session will show you how you can be more efficient when it comes to configuring your drives in a Logix environment - we call this Premier Integration. Not only will you see how this experience helps you reduce integration and configuration times, but you'll see how you can be more productive from the plant floor and drive information throughout your enterprise.

SY09 - Communications Using FactoryTalk® Linx, OPC UA and KEPServer Enterprise
This session includes demonstrations of FactoryTalk® Linx, OPC connectivity and KEPServer Enterprise software to provide visualization and information software access to Logix 5000™ controllers and other control devices. Topics include an overview of the connectivity software portfolio, methods to securely access various types of control system information and OPC UA communications.

SY13 - Introduction to Robotic Solutions with Rockwell Automation
Have you ever wanted to provide an robotic experience but not sure where to start? This session will get you started and show the value of a fully integrated solution. By integrating robotic control into your machine design, you will realize true value and innovation. Our robotic integration strategy can help you increase machine efficiency, fully integrate your control investment and help reduce machine dependency on a shrinking workforce.

VZ01 - How to Improve Plant Operations through Better HMI Graphics
Plant operators make decisions every day that can directly influence profitability. In this session, we’ll equip you with methods and ANSI/ISA-101 concepts you need to create meaningful content. Learn how to present the right type and amount of visual detail to improve operational efficiency and promote better decision-making.

VZ02 - Visualization at Rockwell Automation - What's New
Discover the newly released products and features in visualization software and hardware and see what's planned for the upcoming year. This session will show how new capabilities enable scalable solutions, efficient application design, access to real-time information and improve operator effectiveness.

VZ03 - Designing Machine-level HMI with Studio 5000 View Designer® Demonstration
This session will introduce you to the latest PanelView™ 5000 hardware and Studio 5000 View Designer® software. You will learn how easy it is to create, download and run an application as well as see some of the more powerful capabilities of the platform. You will also get an early look at new features coming in our next release.