

Process Solutions Summit



Edward Hospital Athletic and Event Center
55 Phelps Avenue
Romeoville, IL 60446

March 25, 2015 – 8:00 AM - 5:30 PM

March 26, 2015 – 8:00 AM - 5:30 PM

Endress + Hauser 

Rockwell
Automation

Process Solutions Summit

Join us!

Mark your calendars to attend the Process Solutions Summit, hosted by Rockwell Automation® and Endress+Hauser. This unique event will provide an environment where you can exchange innovative ideas, learn best practices, and seek solutions with your process automation peers. Experience our PTU® (Process Training Unit) - a fully functional "Mini Process Plant" with 90+ field instruments controlled by a PlantPAX® Process Automation System.

What to Expect

The Process Solutions Summit is a great opportunity to gain valuable insight through:

- World-class capabilities of each participating company
- Hands on experience in numerous labs
- Technical knowledge gained in forums
 - Professional development hours awarded
- Live demonstrations each day
- Various product and solution exhibits on display

The Process Solutions Summit provides a great opportunity for you to network with peers, ask questions of our experts and explore methods to tackle the daily production and business challenges you face.

For more information contact:

Sara Fisk at sara.fisk@us.endress.com or 317-535-2108



REGISTER NOW at <http://www.rockwellautomation.com/go/pss>

Wednesday - Thursday, March 25 - 26

Technical Sessions

Registration begins at 7:30 AM

Time	Event Center	Event Center	Event Center	Event Center	Event Center	GEBCO Training Room
8:00 - 9:00 AM	Keynote Address (Athletic Event Center Kickoff) Industrial Cyber Security					
9:00 - 10:00 AM	The Connected Enterprise					
	The Business of Instrumentation and Automation	The Industrial Infrastructure	PlantPax The Modern DCS			
9:00 - 10:00 AM	CT500 - Achieving Operational Excellence Through a Connected Enterprise	CT510 - Innovations: What new technologies mean to you	CT520 - Virtualization in Manufacturing Industries	CT530 - Introduction to PlantPax System	CT540 - How Endress+Hauser can help you develop and execute chemical loading and inventory management improvement projects	CT550 - Level Solutions in the W/WW Industry
10:15 - 11:15 PM	CT501 - Process Optimization with PlantPax Model Predictive Control	CT511 - Plant Asset Management	CT521 - Panduit Give Your Process Plant a Backbone - A Standards-Based Approach to the Industrial Physical Network	CT531 - Batch Best Practices	CT541 - Got Steam? New Techniques for Measuring Steam Quality in Utilities	CT551 - Samson Modular design platform valves specific to your needs
11:30 - 12:30 PM	CT502 - Safety is Good Business: Harvesting LOTO data to improve operations	CT512 - Liquid Analysis Done Right - Save 50% in Maintenance Time	CT522 - Securing Industrial Networks for Global critical Infrastructure Protection	CT532 - Intelligent Pump Control with PlantPax - Realtime Energy Monitoring	CT542 - Overfill Protection - In Situ testing to maintain SIL compliance	CT552 - Process Safety and Critical Control: What Solution Best Meets Your Needs
12:45 - 1:45 PM	CT503 - Turning Big Data into Information	CT513 - Supplementing Lab Analysis with Inline Measurements in the Food Industry	CT523 - Cisco Solutions for the Converged Plantwide Ethernet Reference Architectures	CT533 - Exploring the Functionality of the Library of Process Objects	CT543 - ACP PC based networks vs. Thinmanager managed server/device networks	CT553 - WWTP Lift Stations - The process begins here
2:00 - 3:00 PM	CT504 - ICI The Value of Plantwide Automation - Whitmore's Journey from manual processes to automation	CT514 - Achieving a Higher Level of Maintenance and Reliability to Help You Increase Uptime	CT524 - Design Considerations for Robust EtherNet/IP Networks	CT534 - Exida Alarm Management: Monitoring, Assessment, and Bad Actors	CT544 - Hazardous Area Classifications and Protection Methods	CT554 - Calibration: Increase your uptime and improve plant performance
3:15 - 4:15 PM	CT505 - ASK THE EXPERT: What is the Value of a Model Predictive Control Solution for You	CT515 - Maverick Technologies DCSNext - Don't replicate. Innovate Processes	CT525 - Industrial Ethernet Infrastructure & Field Instrument Integration to PlantPax	CT535 - How to Improve Plant Operations through Better HMI Graphics	CT545 - CIP for Food Industry	CT555 - Ion Selective Electrodes for Monitoring Ammonium and Nitrate in Wastewater Treatment Plants
4:30 - 5:30 PM	CT506 - The Journey to a Smarter, More Productive Workforce (PlantPax Mobility and Portability)	CT516 - Control Station The Un-Tunable PID Control Loop: Best-Practices and Innovations for Tuning Oscillatory, Noisy and Long Dead-Time Processes	CT526 - Prosoft Technologies Solutions for your Industrial Networking Needs	CT536 - Low Risk Solutions for Migrating Legacy Distributed Control Systems (DCSs)	CT546 - Factory Seals - Single/Dual Seal Certification	CT556 - Synergy Systems Boiler Efficiency (Modernize instead of migrating)

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Wednesday - Thursday, March 25 - 26 ... continued

Hands-On Labs

Time	GEBCO Conference Room
9:00 - 10:30 AM	<p>LAB500</p> <p>Sizing PlantPAx System Architectures for Optimal Performance</p> <p>9:00 - 10:30 AM</p>
10:30 - 12:00 PM	<p>LAB501</p> <p>PlantPAx Process Application Development Lab</p> <p>10:30 - 12:00 AM</p>
12:00 - 1:30 PM	<p>LAB502</p> <p>PlantPAx Sequencer Application Development Lab</p> <p>OR</p> <p>LAB503</p> <p>Introduction to the PlantPAx Process Automation System for Operations and System Engineering</p> <p>12:00 - 1:30 PM</p>
1:30 - 3:00 PM	<p>LAB504</p> <p>PlantPAx</p> <p>Device Integration Lab</p> <p>HART, Ethernet/IP</p> <p>1:30 - 3:00 PM</p>
3:00 - 4:30 PM	<p>LAB505</p> <p>Batch Management Implementation Lab: Select the Segment of Interest to You</p> <p>OR</p> <p>LAB506</p> <p>Build an Information System on Your Rockwell Process Application</p> <p>3:00 - 4:30 PM</p>

Process Training Unit

Test your knowledge and skill in our PTU Challenge. At the end of the activities your name will be entered to win one of the top prizes designated just for the PTU Challenge participants.



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Technical Sessions

CT500 - Achieving Operational Excellence Through a Connected Enterprise: At Rockwell Automation, we have been on a journey to globalize our manufacturing footprint. This measured objective can be accomplished through the implementation of advanced technology, compelling leadership and the deliberate permeation of a fresh organizational culture anchored by the embraced principles of speed, quality and a consistency of purpose. In this session we will examine best practices and lessons learned during the quest to implement the Connected Enterprise and achieve a multi-faceted, collaborative, demand-driven and sustainable high-mix manufacturing business environment.

CT501 - Process Optimization with PlantPAx Model Predictive Control: Learn how MPC reduces process variability and inefficiency, improves product consistency, and allows operations to push constraints to the limits.

CT502 - Safety is Good Business: A practical approach to LOTO. Creating a LOTO program designed to work with your process is critical to safety and to streamline your operations to improve productivity.

CT503 - Turning Big Data into Information: You have heard about big data, but is big data for everyone? On our journey, we will compare small data, big data and the “just-enough” data, which may be somewhere in between. In this session, we will cover techniques you can use to help transform your data into actionable insights and information. We will take a look at several successful, real-world examples, and discuss techniques to get you started. Come see what big data is all about, and where your next steps may lead.

CT504 - ICI - The Value of Plantwide Automation - Whitmore's Journey from manual processes to automation: Follow a multi-year deployment to modernize a lubricant manufacturing facility that transitioned from operator control to a FTBatch manufacturing environment. The project leverages Control Logix, FTView SE, FT Vantage Point, FTHistorian, and a distributed I/O strategy with multiple buss technologies. More than 200 automated valves, 7 mass flowmeters, and the control of 15 mixers. We will share the benefits achieved as the project wraps up.

CT505 - ASK THE EXPERT: What is the Value of a Model Predictive Control Solution for You: Explore the value of a Model Predictive Control (MPC) Solution for your company. This session will include examples of MPC in several industries (Speciality Chemical, Oil & Gas, Food and Beverage, Home Personnel Care, Mining, Metals, Power, Water/Waste Water.) Be prepared to ask questions.

CT506 - The Journey to a Smarter, More Productive Workforce: Today everything from updating friends to depositing a check is doable on a mobile device. So why is your plant any different? Part of the Connected Enterprise is staying connected – no matter where you are. In this session, we will take a look at today's web, phone and tablet tools that take you on the journey towards mobility. Bring your own device to work? Need to support mobile workers? Production, HMI/SCADA and operations management solutions today require various forms of access to their data & systems. We'll also explore how you can begin to accomplish these goals with access to FactoryTalk products on any mobile platform and outline some visionary examples of how mobility can increase productivity by double digits in manufacturing.

CT510 - Innovations: What new technologies really mean to you? This fast-paced session will highlight multiple innovations and the practical advantages they offer: including electronic differential pressure for level measurement, new flow meter diagnostics, monitoring and verification and a unique method of managing the life cycle of pH, ORP, conductivity, dissolved oxygen and chlorine sensors.

CT511 - Plant Asset Management: Learn about the latest communication software to interface with your Endress+Hauser instrumentation and how to utilize all of the features and benefits to not only configure but to help diagnose your process measurements. W@M is the latest in on-line life cycle management which is a web based system to provide complete cradle to grave information on your instruments.

CT512 - Liquid Analysis Done Right – Save 50% in Maintenance Time: In this interactive group session, you will be a participant in exploring digital technologies like Memosens and Memobase. Learn how to reduce cost and time for measurement parameters like pH, Conductivity, Turbidity, and Dissolved Oxygen.

CT513 - Supplementing Lab Analysis with Inline Measurements in the Food Industry: Inline process analyzers/instruments can reliably replace measurements traditionally made in the lab. Moving to inline measurements cuts labor costs eliminating manual sampling and analysis, and adds consistency by automating your process. Inline measurement delivers real-time results allowing automation systems to continually adjust process parameters optimizing quality and increasing throughput.

CT514 - Achieving a Higher Level of Maintenance and Reliability to Help You Increase Uptime: When a critical asset in a highly complex production system fails without warning, the cost in damage and downtime can be high not to mention the potential risk to personnel and the environment. Asset reliability can be a competitive business differentiator which causes many organizations to rethink how they can leverage existing resources to improve the performance of their critical assets. Attend this session to learn how Endress+Hauser and Rockwell Automation Reliability Services can help prevent and predict unplanned downtime.

CT515 - Maverick Technologies - DCSNext - Don't replicate. Innovate: MAVERICK Technologies has harnessed decades of knowledge to create a true breakthrough in distributed control system (DCS) migration: DCSNext. More than a simple I/O or equipment replacement, DCSNext helps manufacturers leverage the complete benefits of the latest DCS technology in order to improve productivity, agility and profitability. Our DCS consulting team leverage MAVERICK's platform independence and proven methodology to deliver a DCS migration solution that meets both operations and business needs.

CT516 - Control Station - The Un-Tunable PID Control Loop: Best-Practices and Innovations for Tuning Oscillatory, Noisy and Long Dead-Time Processes: This presentation details a proven step-by-step approach for collecting and analyzing process data for the purpose of tuning PID controllers. It also highlights patent-pending capabilities that allow software to accurately model the oscillatory, noisy and long Dead-Time data that is typical of industrial production processes.

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Technical Sessions

CT520 - Virtualization in Manufacturing Industries: Learn about the benefits of using VMware to deploy and run your Automation applications. Learn important practical information on how to leverage virtualization on your next project. Also covered will be the steps for deploying new PlantPax Virtual Templates and setting up a fault-tolerant environment.

CT521 - Panduit - Give Your Process Plant a Backbone - A Standards-Based Approach to the Industrial Physical Network: Boosting productivity, innovation and business agility requires the adoption of effective industrial network infrastructure strategies. Best-in-class manufacturers can achieve as much as 99.1% uptime and 90% OEE, providing greater operating margins. You'll learn how standards based physical network topologies can help provide a high performance, reliable and scalable plant network.

CT522 - Securing Industrial Networks for Global critical Infrastructure Protection: Cyber hazards to critical infrastructure may yield extensive damage as measured by economic and financial impacts to our national security. Protecting critical infrastructure networks and industrial assets is critical to the preservation of global economic stability. This session will explore case studies involving the latest industrial control system vulnerabilities impacting global critical infrastructures and for each will describe applicable countermeasures to detect, respond and eradicate these threats. Anatomies of networks, threats, vulnerabilities will be described in technical, practical details to ensure relational value. Subject sectors include Oil & Gas, Water / Wastewater, Energy, Dams, and Chemical. As applicable, government compliance framework requirements and industry best practices and standards will be integrated into countermeasure operational activities. Learn about these specific threats and the risk and consequence mitigation techniques to manage them.

CT523 - Cisco Solutions for the Converged Plantwide Ethernet Reference Architectures: Cisco products and solutions enable technical and cultural convergence between information technology (IT) and industrial automation technology. Learn about the Cisco solutions within the joint Cisco and Rockwell Automation CPwE reference architectures, including Catalyst family of switches and Adaptive Security Appliances (ASA) firewalls, capabilities, selection and support. A prior understanding of general Ethernet concepts is recommended.

CT524 - Design Considerations for Robust EtherNet/IP Networks: Review the design considerations developed by Rockwell Automation and our partners to help you design and deploy a scalable, robust, secure and future-ready EtherNet/IP network infrastructure. Topics will include segmentation techniques, data prioritization, resiliency, security, structure and hierarchy. A prior understanding of general Ethernet concepts is recommended.

CT525 - Industrial Ethernet Infrastructure & Field Instrument Integration to PlantPax: During this session we will focus on advantages of Industrial Ethernet technology in Process Automation, allowing you to do multi-discipline on one common network architecture. We will also share with you the specific benefits of using Endress+Hauser flow and analytical technology on the EtherNet/IP protocol combined with Add-on-Profiles and associated Faceplates in the PlantPax system.

CT526 - Prosoft Technology- Solutions for your Industrial Networking Needs: Gateways, wireless radios and cellular modem can help you monitor or control your process controls and instrumentation. We can also help you monitor the flow of liquid or gas hydrocarbons in a pipeline with the in-chassis flow computer. Concerned about a migration strategy for your PLC5s® and SLCs™? ProSoft can help you there as well with our RIO to Ethernet IP protocol converters and Belden "blue hose" media converters.

CT530 - Introduction to PlantPax System: Introduction to the PlantPax system for those looking to gain a basic understanding. After attending this session, you will be able to define the PlantPax System and understand how it provides all the capabilities you expect from a DCS - and more.

CT531 - Batch Best Practices: Traditionally the OS and its applications were tightly coupled to the hardware they were installed on. Virtualization breaks the link between operating system and physical hardware. In this session you will learn how virtualization can help reduce risk and overall infrastructure cost in your manufacturing facility. Topics covered include virtualization for engineers and production, virtualization offerings from Rockwell Automation and general licensing considerations.

CT532 - Intelligent Pump Control with PlantPax - Realtime Energy Monitoring: Historically most process control systems were designed to control and protect the driven equipment. However they provided only very limited equipment status information. (e.g., Running, Fault status). Troubleshooting was largely dependent on the personal capabilities and experience of the local staff. This method has served industry well for decades, but does not leverage the additional process and equipment health status available in today's data rich PlantPax process control systems.

CT533 - Exploring the Functionality of the Library of Process Objects: The Rockwell Automation Library of Process Objects lets you quickly develop process solutions with rich functionality and known performance. Objects in the library and their functions within a typical process control system are presented. Common library features such as modes, alarms and features for operations, maintenance and engineering personnel are explained. New features for the 3.1 library release are highlighted. Walk away knowing how to more effectively develop, operate and maintain process systems.

CT534 - Exida - Alarm Management: In this session we will review the Alarm Management entry points defined by ANSI/ISA 18.2 Standard: Management of Alarm Systems for the Process Industries. We will then focus our attention specifically on the monitoring & assessment entry point and discuss guidelines and methods for dealing with nuisance – or "bad actor" – alarms. Finally, features of the Rockwell Automation PlantPax system which support implementation of these techniques will be examined.

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CT535 - How to Improve Plant Operations through Better HMI Graphics: Plant operators are required to make decisions every day in production facilities which can directly influence profitability, either by the normal running of the plant, or by reacting swiftly to the unusual – protecting material, product, equipment and personnel. These decisions need to be based on clear unambiguous information from your visualization systems. This session covers topics like producing graphics that deliver meaningful and detailed information allowing the operators to run the plant at the most efficient level. What graphic designs work best at keeping your plant operatives informed of the plant status at a glance to enable them to make those right decisions?

CT536 - Low Risk Solutions for Migrating Legacy Distributed Control Systems (DCS): Diminishing support of legacy DCSs and today's continuous optimization and innovation demands are leading users to replace legacy DCS system. This session will explore the scope of available tools, review well developed project plans, and discuss the benefits of migrating to the PlantPAx system. Gain insight into best practices to follow whether you're considering a phased, rip and replace, or multi-site project.

CT540 - How Endress+Hauser can help you develop and execute chemical loading and inventory management improvement projects: Chemical distribution operations need to address supply chain safety and efficiency issues to achieve business objectives. Improvements to existing or new chemical loading and inventory operations not only require innovative equipment and software they also require a solution provider with the capabilities to manage these types of projects from concept to commissioning. This presentation reviews some innovative equipment and software and the project capabilities to bring about chemical loading and inventory management improvements.

CT541 - Got Steam? New Techniques for Measuring Steam Quality in Utilities: Steam quality can pose significant threats to plant or worker safety and overall process efficiency. Advanced field instruments and solutions will be explored to predict quality, dryness fraction and energy values from saturated steam that could save you from getting 'burned'.

CT542 - Overfill Protection – In-situ testing to maintain SIL compliance: In situ testing to maintain SIL compliance for overfill protection with details about the SIL assessments, API categories, proof testing and other topics will be discussed.

CT543 - ACP - PC based networks vs. Thinmanager managed server/device networks: General discussion of the differences between traditional industrial network and a Thinmanager administered server/device network. This session includes the ROI analysis of engineering, electrical and total capital investment.

CT544 - Hazardous Area Classifications and Protection Methods: Description of what the hazardous area classifications are and what specific protection methods truly mean. Demystify the common third party approvals. Discussion of how and when you can use a specific approval rating as well as what is and what is not required to be supplied.

CT545 - CIP for Food Industry: Realize water, energy and detergent savings while by improving CIP (clean in place) in food industry. Session will look at best practice use of instrumentation and hygienic design to enhance food safety while reducing operating costs and product losses related to CIP.

CT546 - Factory Seals - Single / Dual Seal Certification: Identify the type of seals required by the NEC when installing instruments in a hazardous location, how those same requirements can now be satisfied directly by properly designed instruments and the benefits these changes will bring to the customer in terms of installed cost, faster commissioning, etc.

CT550 - Level Solutions in the W/WW Industry: Selecting the appropriate technology for applications in the W/WW industry is central to both a successful measurement as well as controlling costs associated with maintaining a less than ideal technology. Learn which level instruments are a best fit in both continuous and point level applications and what features Endress+Hauser has built in specifically for this industry.

CT551 - Samson - Modular design platform valves specific to your needs: Discuss how the 241/251 modular design platform valves can be customer built for a wide range of applications involving high temperature, noise, cavitation and material capability. Touch on unique or specialized products that address more specific application needs. Address intelligent valve positioner and how this can interact with a controls system.

CT552 - Process Safety and Critical Control: What Solution Best Meets Your Needs: Choosing the correct safety solution to meet availability and safety requirements is a critical decision. In this session, we'll explore our process safety offerings from SIL 2 and SIL 3 to fail-safe, fault tolerant and triple modular redundancy. Learn which option is best for your requirements and how each helps improve efficiencies and performance.

CT553 - WWTP Lift Stations - The process begins here: Lift stations play a vital role in municipal collection system as they provide the means to move the raw sewage from a lower elevation to a higher elevation and eventually to the WWTP. A reliable and accurate monitoring system and controls are critical to the overall performance of the lift station.

CT554 - Calibration: Increase your uptime and improve plant performance: The overall performance of measurement instruments is directly linked to calibration quality. A discussion on exciting new programs designed to help you improve facility performance and UP-TIME through calibration management solutions. The last part of the session we will show you a live calibration demonstration using a state-of-the-art portable flow rig and our laboratory flow rig.

CT555 - Ion Selective Electrodes for Monitoring Ammonium and Nitrate in Wastewater Treatment Plants: This paper will cover the use of ion selective electrodes for monitoring and controlling both the ammonium and nitrate levels for nitrification and de-nitrification in a wastewater treatment plant, augmented with dissolved oxygen measurement.

CT556 - Synergy Systems - Boiler Efficiency (Modernize instead of migrating): Learn how a package boiler controls enhancement can provide a rapid return on investment through energy savings and increased combustion efficiency. Leverage PlantPAx to provide a Safe, Reliability, and Efficient automation system and meet NFPA 85.

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Hands-On Labs

LAB500 - Sizing PlantPAx System Architectures for Optimal Performance: Learn how to select the appropriate PlantPAx system architecture based on your project requirements. This lab will present the latest system sizing and architecture rules, as tested in our characterization lab, to help provide you with the best system performance. Receive hands on experience utilizing the PlantPAx System Estimator as you design your system for optimal performance.

LAB501 - PlantPAx Process Application Development Lab: In this lab you will develop a process application from scratch by starting with the PlantPAx System Application "Quick Start" templates. Once you have completed basic setup of your controller and HMI, you will continue to build out your application by adding/configuring Logix controller code and FactoryTalk View SE graphical elements from the Rockwell Automation Library of Process Objects.

LAB502 - PlantPAx Sequencer Application Development Lab: This hands-on-lab introduces the PlantPAx Sequencer Object which provides a flexible controller-based step sequencing solution and enables local, single unit control. During this lab, you will configure the Sequencer while exploring features such as Prompting, Step Timing, Recursion, Jump, Hold/Pause and Interlock. The PlantPAx sequencer is ideal for processes such as startup/shutdown, material transfer, slurry make-up, recirculation and skid cleaning.

LAB503 - Introduction to the PlantPAx Process Automation System for Operations and System Engineering: This two part lab examines the PlantPAx System within a simulated plant environment through the eyes of an operator OR system engineer. As an operator, learn about navigating and interfacing with the system in a utilities and batch area. As an engineer, learn how to execute simple configuration changes and add a new control strategy using the PlantPAx Library. Ideal for those seeking basic familiarity with the PlantPAx system.

LAB504 - PlantPAx Device Integration Lab - HART, Ethernet/IP: Learn how to simplify the configuration of smart process instrumentation via Ethernet/IP, and HART through device integration tools and documents. Explore asset management solutions, along with the latest fieldbus linking devices and process library objects, to understand how they save integration time and improve productivity.

LAB505 - Batch Management Implementation Lab: Select the Segment of Interest to You: Use this hands-on-lab to discover the many capabilities of FactoryTalk Batch and Logix Batch and Sequence Manager (LBSM). Learn how to define operating steps and procedures. Track material and equipment utilization and get insight into production characteristics and product quality. See how batch analysis can help improve overall consistency and quality. This lab contains five segments: Basics of FactoryTalk Batch (90 mins); Basics of LBSM (90 mins); Electronic Procedures (30 mins); Material Management (30 mins); and Batch Analysis (90 mins). Complete more than one during the two hours.

LAB506 - Build an Information System on Your Rockwell Process Application: An introductory lab to learn how to fully integrate and view data and extract Key Performance Indicators (KPIs) from a Rockwell Automation systems with FactoryTalk VantagePoint EMI using FactoryTalk Live Data (Logix PACs, FactoryTalk View, etc.) and FactoryTalk Historian. In addition, see the power of integrating data from FactoryTalk Metrics, FactoryTalk EnergyMetrix and other Rockwell Software offerings.

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- Guide future development of the PlantPAx process automation system through interactive voting sessions
- Learn how peers handle industry pressures and regulations
- Exchange innovative ideas
- Hear customers talk about their best practices
- Get a global perspective on process automation solutions
- Gain consensus on your own plans and improvements



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