Community. Experiences. Productivity.

2017 Siemens Automation Summit – A User Conference

June 26 - 29, 2017 • Boca Raton, FL

usa.siemens.com/summit
A must attend event!

You’re invited to the 2017 Automation Summit

The annual Automation Summit is a user conference for manufacturing professionals who use Siemens automation technologies, including DCS, PLC, HMI, industrial networks, factory automation, motion controllers, process instrumentation, motors and drives, and are interested in cyber security and safety.

You’ll share best practices, network with Siemens management and peers, consult one-on-one with technical experts, receive free training, and have an opportunity to interact with the latest products and solutions from Siemens.

You will also learn how to use and explore the breadth and depth of the Siemens portfolio.
# Automation Summit Agenda

**Monday, June 26**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>All Day</td>
<td>Arrivals and Check-in</td>
</tr>
<tr>
<td>4:00 PM – 8:00 PM</td>
<td>Registration Open</td>
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<tr>
<td>5:30 PM – 6:00 PM</td>
<td>First Time Attendee Meeting</td>
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<tr>
<td>7:00 PM – 10:00 PM</td>
<td>Welcome Reception</td>
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**Tuesday, June 27**

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00 AM</td>
<td>Registration Opens</td>
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<tr>
<td>7:00 AM – 8:00 AM</td>
<td>Breakfast in Technology Café</td>
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<tr>
<td>8:00 AM – 9:30 AM</td>
<td>Opening General Session</td>
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<tr>
<td>9:30 AM – 9:45 AM</td>
<td>Break</td>
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<tr>
<td>9:45 AM – 10:30 AM</td>
<td>Breakout Sessions, Roadmaps and Hands-on Training</td>
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<tr>
<td>10:30 AM – 11:00 AM</td>
<td>Break</td>
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<tr>
<td>11:00 AM – 11:45 AM</td>
<td>Breakout Sessions, Roadmaps and Hands-on Training</td>
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<tr>
<td>11:45 AM – 1:00 PM</td>
<td>Lunch in Technology Café (*Technology Café opens)</td>
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<tr>
<td>1:00 PM – 1:45 PM</td>
<td>Breakout Sessions, Roadmaps and Hands-on Training</td>
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<tr>
<td>1:45 PM – 2:00 PM</td>
<td>Break</td>
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<tr>
<td>2:00 PM – 2:45 PM</td>
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<tr>
<td>2:45 PM – 3:00 PM</td>
<td>Break</td>
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* Technology Café open from 11:45 AM – 6:00 PM

**Wednesday, June 28**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00 AM – 8:00 AM</td>
<td>Breakfast in Technology Café</td>
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<tr>
<td>8:00 AM – 8:45 AM</td>
<td>Breakout Sessions and Hands-on Training (*Technology Café opens)</td>
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<tr>
<td>8:45 AM – 9:00 AM</td>
<td>Break</td>
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<tr>
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<td>Break</td>
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<td>2:45 PM – 3:00 PM</td>
<td>Break</td>
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<tr>
<td>3:00 PM – 3:45 PM</td>
<td>Breakout Sessions or Hands-on Training</td>
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<td>3:45 PM – 4:00 PM</td>
<td>Break</td>
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<tr>
<td>4:00 PM – 4:45 PM</td>
<td>Process Automation Feedback Session</td>
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<tr>
<td>4:45 PM – 6:00 PM</td>
<td>Visit the Technology Café</td>
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<tr>
<td>7:00 PM – 10:00 PM</td>
<td>Customer Appreciation Event</td>
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* Technology Café open from 8:00 AM – 6:00 PM

**Thursday, June 29**

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<tr>
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<tbody>
<tr>
<td>7:00 AM – 8:30 AM</td>
<td>Breakfast in Technology Café</td>
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<tr>
<td>8:30 AM – 12:00 PM</td>
<td>Hands-on Training</td>
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<tr>
<td>12:00 PM – 1:00 PM</td>
<td>Boxed lunches to go</td>
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* Technology Café open from 8:30 AM – 11:00 AM

Agenda and breakout session details will be updated regularly on the website: [www.usa.siemens.com/summit](http://www.usa.siemens.com/summit)
Technology Café

Don’t miss the exciting Technology Café where you can see the Siemens automation, controls and drives portfolio, and talk with Siemens experts in an informal, hands-on environment.

The Technology Café will provide the following and more:

- Modernization for Smart Manufacturing Exhibit – Come and experience the latest innovations in automation software and hardware, giving you full access to all digitalized automation functions, from digital planning and integrated engineering to transparent operation. This exhibit will highlight the integration of visualization, safety, motion control, and engineering, which can enhance your engineering efficiencies and increasing your productivity using Smart Manufacturing Solutions.

- Perspectives are shifting as manufacturers are looking to increase their production and improve safety in the increasingly competitive digital enterprise environment. Learn from our technical, process automation experts the features of SIMATIC PCS 7 including our latest technology, PCS 7 V9.0, that will be launching in May 2017.

- Want to see the latest developments in state-of-the-art variable frequency drives technology? We will present our portfolio offering of SINAMICS low-voltage drives and SIMOTICS motors, as well as application-specific information showcasing the breadth of our technologies and products. Come explore how we can offer you higher performance drives that feature integrated safety and can save energy and lower your costs.

- Motor-driven equipment is getting more complex every day. Most people agree that a single drive platform that is flexible and scalable reduces risk, time and costs in engineering, installation and operation. The SINAMICS platform does just that. Whether it’s single or multi-axis, fractional horsepower to thousands, or combinations of them all, we have a solution that’s right for you. Come by and have a discussion with our experts and learn about how we can help you solve your drive problems.

- When the manufacturing shop of the future utilizes Siemens CNC technology, their shop floor efficiency is taken to the next level. SINUMERIK CNC enables these machine shops to be smarter, more flexible and more competitive. Join us for an in-depth demonstration and learn why you should insist on the control system that delivers the greatest return on your machine investment.

- Certified Siemens Solution Partners are available to serve you a drink with the help of the “Robo-Tender,” and to discuss your Industry 4.0 and application challenges … whether it be a process automation, factory automation, drives and motion, machine tool, or an industrial communications application. You will find a Solution Partner near you, with the application expertise you require.

- Knowledge directly from the manufacturer: With our training options and Industry Online Support website, you can develop and expand specific skills without time away from the plant. Come join our Industry Services team for a virtual reality experience and learn the possibilities of the new Remote Learning@Siemens.

- In industry, unplanned downtime needs to be resolved as quickly as possible. Our service programs and agreements, spare parts options and mature product support can get you back online faster. Restoring the functionality of your machines and plants as quickly as possible is our number 1 goal. Let our Industry Services team show you how.
Are you ready for the future of manufacturing? Data analytics and virtualization provide enormous potential for increasing the productivity and competitiveness of production plants. Stop by to discuss more with the Industry Services team and watch a demonstration of our digital services.

The open cloud platform from Siemens, MindSphere, is a centerpiece of a powerful Internet of Things operating system with data analytics and connectivity capabilities, tools for developers, applications and services. The experts from Siemens will explain how you can use MindSphere to exploit the full potential of your data and transform it into measured business success.

Take the opportunity to explore what a Totally Integrated Power (TIP) solution looks like. From the components that make up power distribution to the actual power distribution equipment itself, Siemens has an offering that is sure to make your facility a safe, more reliable system. Learn about our new 3VA circuit protection offering, the benefits of power monitoring, the efficiencies found with our Smart Switchboard and Switchgear offerings and about the state-of-the-art technologies in low voltage motor control.

Learn about the latest offerings in communication, identification and power products. We will showcase: Siemens Industrial Remote Communication Solutions and our latest innovations from our SCALANCE portfolio for your wired, wireless and security needs; New additions to the networked power supplies PSU8600 and UPS1600: OPC UA; RFID and Code Reading systems for highest transparency; and for extreme environments – the RUGGEDCOM portfolio. Come discover how these products can benefit you.

Measuring, positioning, recording and controlling are key parameters for all industrial processes. Process instrumentation from Siemens satisfies these demands with absolute reliability, helping you increase plant efficiency and improve product quality. Come meet with our experts to learn more.

Control Products have several new customer application examples that have reduced installation time and increased productivity. Our latest Power Control and Machine Safety Solutions, as well as other products with communication capability, will be on display. Applications include the new RFID Key Switch on IO-Link for Access Control and the new SIMOCODE PRO now supporting the EtherNet/IP protocol for motor management applications.

Discover Digitalization for the Process Industries with Integrated Engineering and Integrated Operation. Come by and experience the starting point for plant design, COMOS: the integrated software solution from Siemens. It’s a solution that seamlessly integrates all engineering disciplines into one database. That’s a single database that’s consistent across the globe. In addition, learn more about XHQ Operations Intelligence software and experience the software hands-on. See how, with XHQ, your organization’s decisions can be faster, better and empowered with data from business and operations systems together.
Training

- **SIMATIC PCS 7 Engineering in the Digital Age**
  You will learn from a combination of lecture, demonstration and hands-on experience how to effectively use the libraries, bulk, and integrated engineering tools to improve your experience. You will learn strategies that will reduce time spent, reduce errors and reduce trouble-shooting, while improving the system’s documentation and operator experiences.

- **Your Digital Twin: Improve Testing and Operator Training**
  We will create a digital twin of your PCS 7 project using SIMIT simulation software and show how this improves factory acceptance testing and operator training system (OTS) via a combination of lecture, demonstration, and hands-on exercises. You will experience the SIMIT Virtual Controller’s “hardware free” simulation environment and discuss the benefits of testing outside of your production system. You will be introduced to the new SIMIT Chemical Library, which provides a toolset to create an OTS.

- **PCS 7 V9.0 and PROFINET Update Workshop**
  Please join us to learn more about the latest release, PCS 7 V9.0, via a combination of lecture, demonstration, and hands-on experiences. You will learn about the new PROFINET-based process automation IO families and how to design the system architectures. We will review the current and improved engineering strategies to efficiently design and document your system while leveraging the PCS 7 best practices.

- **Drives-based Safety Integrated Functions with SINAMICS Drives**
  Join Siemens as we demonstrate how to utilize Drives-based Safety Integrated functions to improve the safety and increase the productivity of your machines. You will get hands-on experience on how to set up a basic safety integrated function and learn best-in-class techniques for how to diagnose and protect the integrity of your machine safety. We will also explore advanced drives-based Safety Integrated functions and learn how they are innovating the machine landscape. You will also gain a good understanding of why traditional safety signals are migrating to safety telegrams over Industrial Ethernet for future-oriented designs.

- **Industrial Ethernet Connectivity – PROFINET & Ethernet/IPTM with SINAMICS Drives**
  Join Siemens as we demonstrate how seamless it is to communicate with both PROFINET and Ethernet/IPTM communication protocols to SINAMICS drives. In this workshop, you will commission a SINAMICS G120 drive using drive program software and see a demonstration of the drive being controlled first by the SIMATIC S7-1500 and then by Rockwell ControlLogix. You will witness the simplicity of switching the drive between protocols and learn some of the “value added” benefits of using Siemens drives. All products will be connected through our SCALANCE XR-300 switch and be remotely operated via our ComfortPanel Touch HMI.

- **Optimizing SINAMICS Drives**
  Join Siemens as we demonstrate how to optimize SINAMICS general and high performance drives and
We encourage you to join us for training courses led by Siemens technology experts. Students will share work stations and have hands-on access to product equipment. All courses include a certificate of completion that can be submitted for professional hours.

increase the productivity of your machines. You will get hands on experience and learn best-in-class techniques on how to tune your drives for optimal performance. Some of the topics covered will be calculating inertia, making the best use of encoders, trace functionality, as well as resources available to you.

YES! Selling (Projects, Ideas, Yourself) to Others
What does your customer care about? Understanding this helps you get to “Yes!” Whether you are promoting a project internally, selling a product or service to customers, or gaining willing cooperation from your team, there are process steps to make you more successful. This is an updated version of a popularly requested Automation Summit training back for the third year in a row – it works! If you want better results selling your ideas and projects using your own style and a proven process, join us. In this fun and interactive session, we will explore how to sell without seeming like a “typical salesperson.” If you like helping others and want to make it easier to get to a “Yes” without tricks or deceit, this session is for you. You will apply these skills to your own real-world situations and learn specific questions to coach others in the process as well.

Best-in-Class – 1200F Safety Workshop
In this workshop, the user will experience a unique chance to get behind the scenes with Siemens latest 1200 family controller. This workshop is the ultimate safety hands-on experience. The latest world-class controller, the S7-1200F with PROFIsafe and the Siemens innovative TIA Portal will be at your fingertips, where you will experience easy integration, safe communication, fast connectivity, best-in-class troubleshooting and diagnostics. Come work with one of Siemens most competitive and cost effective solutions available today and see how the TIA Portal and this controller can help you save money and implement safety solutions faster.
Motion Control has never been so easy!
The Technology CPUs of the SIMATIC S7-1500 Advanced Controllers extends the motion control functionalities, such as gearing or camming, in the efficient environment of the TIA Portal. The S7-1500 Technology CPUs offer one controller for standard, motion control and fail-safe automation tasks with integrated cam editor for the graphical and parametric configuration and optimization of cams.

Participants in this S7-1500T Motion Workshop will work through hands-on labs to implement the following:

- Camming using the new Cam Editor
- Basic motion using PLCopen instructions
- TIA Portal V14 trace functionality
- Diagnostic web pages of the S7-1500

Discrete Engineering Lab
This is a hands-on opportunity to experience, how the Totally Integrated Automation Portal (TIA Portal) can reduce engineering development time and machine downtime. In this session you will work with the TIA Portal engineering software to configure an automation station consisting of an S7-1500 and S7-1200 PLC, HMI Comfort Panel, ET 200SP remote I/O, Scalance networking products and a SINAMICS G120 drive and motor.

In this lab environment, you are free to explore the software and hardware at your leisure or a step-by-step guided instruction lab is available for use. In addition, Siemens experts will be on hand to help demonstrate relevant features or answer specific questions. This unique opportunity is open to registered attendees. Hours of operation are Tuesday, June 27, 2017, 12:00 pm to 6:00 pm; Wednesday, June 28, 8:00 am to 6:00 pm.

Industrial Control Panels, Understanding the Requirements of and Differences Between UL and IEC
Industrial control panels are everywhere and take many different forms. Regardless of the origin of the control panel, or its destination, there are specific standards that apply to the design, specification and manufacture of these controls. This class will cover which standards apply for different types of control assemblies, as well as highlight the basic requirements of each of the standards, including similarities and differences.

Industrial Remote Communications
The goal of this course will be establishing reliable communications to systems remotely and securely. The long distances between remote locations and the control centers make fiber networks cost prohibitive, resulting in wireless connectivity as the primary network consideration. To enhance the discussion, several additional themes related to wireless connectivity have become prevalent:

- The need for remote cellular solutions
- Controlling Access to specific systems
- Hosting Options

This session will explore the challenges associated with remotely accessing plant systems and discuss connectivity solutions offered by Siemens SCALANCE Product Portfolio.
Breakout Sessions

Select from 50+ user-led presentations and learn from others on how they successfully applied Siemens technologies.

- Best Practices & Novel Approaches
- Energy & Asset Management
- Maintenance & Operations
- Productivity & Efficiency
- Safety & Industrial Security

You can see all the abstracts as they become available at: www.usa.siemens.com/acceptedabstracts

The Siemens led sessions will include:
- Roadmaps – the latest Siemens technology will be presented by product management
- Feedback Forums – you can provide Siemens with feedback on products, solutions and services

Networking Events

Monday, June 26

Welcome Reception
On Monday night of the conference, you can connect with your old and new friends at the Boca Raton Beach Club.

Wednesday, June 28

Customer Appreciation Event
Join us for a night at the ‘tracks’ with a themed Kentucky Derby event on the lawn of the resort. There will be food, drinks, horse races and networking.

It’s a night you don’t want to miss!
Customer Excellence Awards

The Customer Excellence Award ceremony is a way to celebrate end users, Solution Partners, OEMs and other integrators who have utilized Siemens technology. We will honor those recipients that have made their businesses succeed. These awards showcase how close collaboration and mutual trust can yield big results for both recipients and Siemens. We hope that it helps unite all customers and spark more of an interest for “out-of-the-box” solutions for all initiatives within the automation industry.

Awards will be given during the opening session of the conference, and a representative from the company must be present at the conference to receive the award.
Conference Details

Official website: www.usa.siemens.com/summit

Register today!

Dates: June 26 - 29, 2017

Location: Waldorf Astoria
501 E Camino Real
Boca Raton, FL 33432
Phone: (561) 447-3000
Website: www.hilton.com/bocaraton

The 2017 Automation Summit is an all-inclusive package – one registration fee covers it all. Not only can you attend the Summit, but your three nights at the Boca Raton Resort and Club, Waldorf Astoria Resort are covered, as are your conference meals, educational sessions, and networking events.

Conference Fees
The full conference fee is $1695 and includes three nights of lodging, daily breakfast, lunch and all evening networking events.

Spouse / Guest Fee – $295
Spouse / Guest Fee (Wednesday night only) – $50
Early Career Engineer Fee – $795
This type of attendee needs to be accompanied by a full-paying colleague from the same company (includes lodging.)

Visit the registration site for additional details.

Dress Code
Business casual attire will be appropriate for all occasions.
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