



**SIEMENS**

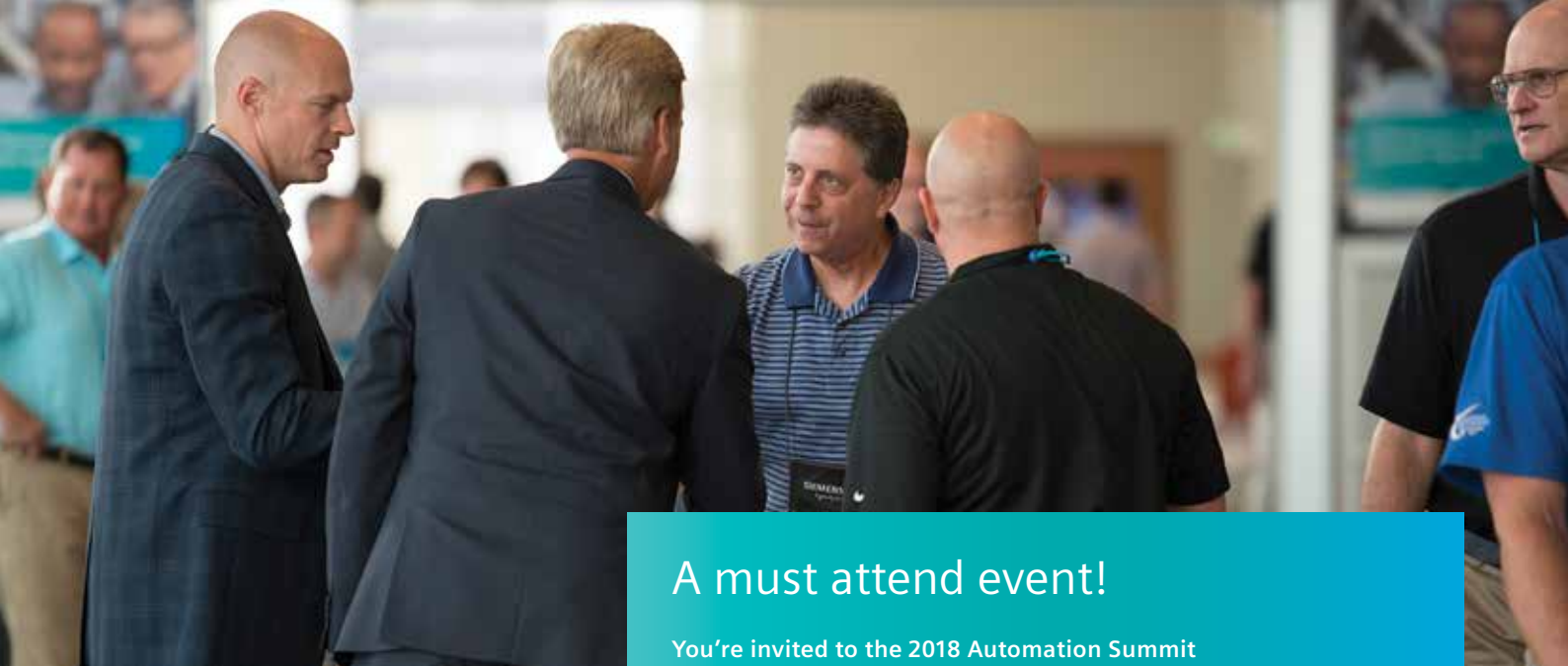
*Ingenuity for life*

Community. Experiences. Productivity.

# 2018 Siemens Automation Summit – A User Conference

June 25 - 28, 2018 • Marco Island, FL

[usa.siemens.com/summit](http://usa.siemens.com/summit)



## A must attend event!

You're invited to the 2018 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 25

All Day	Arrivals and Check-in
4:00 PM – 8:00 PM	Registration Open
5:30 PM – 6:00 PM	First Time Attendee Meeting
7:00 PM – 10:00 PM	Welcome Reception

## Tuesday, June 26

7:00 AM	Registration Opens
7:00 AM – 8:00 AM	Breakfast in Technology Café
8:00 AM – 9:30 AM	Opening General Session and Customer Excellence Awards
9:30 AM – 9:45 AM	Break
9:45 AM – 10:30 AM	Breakout Sessions, PA Roadmap Session and Hands-on Training
10:30 AM – 11:00 AM	Break
11:00 AM – 11:45 AM	Breakout Sessions, Roadmaps and Hands-on Training
11:45 AM – 1:00 PM	Lunch in Technology Café (*Technology Café opens)
1:00 PM – 1:45 PM	Breakout Sessions, FA PLC Roadmap & Feedback Session and Hands-on Training
1:45 PM – 2:00 PM	Break
2:00 PM – 2:45 PM	Breakout Sessions, HMI Roadmap & Feedback Session and Hands-on Training
2:45 PM – 3:00 PM	Break
3:00 PM – 3:45 PM	Breakout Sessions, MC Drives Roadmap Session and Hands-on Training
3:45 PM – 4:00 PM	Break
4:00 PM – 4:45 PM	Breakout Sessions, CI Roadmap & Feedback Session and Hands-on Training

\* Technology Café open from 11:45 AM – 6:00 PM

## Wednesday, June 27

7:00 AM – 8:00 AM	Breakfast in Technology Café
8:00 AM – 8:45 AM	Breakout Sessions and Hands-on Training (*Technology Café opens)
8:45 AM – 9:00 AM	Break
9:00 AM – 9:45 AM	Breakout Sessions and Hands-on Training
9:45 AM – 10:00 AM	Break
10:00 AM – 10:45 AM	Breakout Sessions and Hands-on Training
10:45 AM – 11:00 AM	Break
11:00 AM – 11:45 PM	Breakout Sessions and Hands-on Training
11:45 AM – 1:00 PM	Lunch in Technology Café
1:00 PM – 1:45 PM	Breakout Sessions and Hands-on Training
1:45 PM – 2:00 PM	Break
2:00 PM – 2:45 PM	Breakout Sessions and Hands-on Training
2:45 PM – 3:00 PM	Break
3:00 PM – 3:45 PM	Breakout Sessions, PA Feedback Session and Hands-on Training
3:45 PM – 4:00 PM	Break
4:00 PM – 4:45 PM	Breakout Sessions, PA Feedback Session and Hands-on Training
4:45 PM – 6:00 PM	Visit the Technology Café
7:00 PM – 10:00 PM	Customer Appreciation Event

\* Technology Café open from 8:00 AM – 6:00 PM

## Thursday, June 28

7:00 AM – 8:30 AM	Breakfast in Technology Café
8:30 AM – 12:00 PM	Hands-on Training (*Technology Café opens)
12:00 PM – 1:00 PM	Boxed lunches to go

\* Technology Café open from 8:30 AM – 11:00 AM



# Technology Café 2018

**Unleashing the power of digitalization in your industry. Implement now.**

Digitalization is already changing all areas of life and existing business models. It creates new opportunities for value creation, innovative business models, and enables flexible production to satisfy customer-specific requirements. Manufacturers from a wide variety of industries are already unleashing the potential of digital transformation – they are using end-to-end digitalization to create a lasting competitive edge by reducing time to market and by increasing flexibility, efficiency, and quality.

## **Discover how the Digital Enterprise is already a reality**

To draw on all the benefits of digitalization, businesses must first achieve an end-to-end integration of their data. This requires the integration of industrial software and automation. The Digital Enterprise Suite offers integrated software-based systems and world-leading automation technologies to seamlessly integrate and digitalize the entire value chain, including suppliers. This holistic approach creates a perfect digital copy of the value chain – the digital twin. By merging the virtual world of product design, simulation and testing with the real world of production, on one integrated data model, Siemens helps its customers to reduce time to market, increase flexibility, deliver quality and become even more efficient. Discover how the Digital Enterprise Suite also supports enterprise data analysis through our cloud based and open IoT operating system MindSphere.

## **Totally Integrated Automation: The pathway to digitalization**

Modernization for Smart Manufacturing Exhibit: 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 engineering, visualization, safety, motion control, SCADA, and PC-based automation, which can enhance your engineering efficiencies and increase your productivity using Smart Manufacturing Solutions.

## **Totally Integrated Automation expands with controls**

Siemens control products communicate at the smallest device, a pushbutton, for complete system digitalization over a new or existing network for total transparency. We call it, “out of the box,” ready to communicate with AS-Interface, IO-Link, PROFINET, and other networks providing the monitoring and diagnostics that are needed throughout the entire supply chain.

## **Digitalization in Motion Control applications and Machine Tool manufacturing**

Want to see the latest developments in state-of-the-art variable frequency drives technology? We will present our portfolio offering of low-voltage SINAMICS 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, save energy and lower your costs.

When the manufacturing shop of the future utilizes Siemens CNC technology, their shop-floor efficiency is taken to the next level. SINUMERIK controls enable 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

## **Services for the digital future of industry**

Do you know your consequences of one hour of downtime? With Industry Services as your partner, you can overcome the risk of unplanned downtime and make your production significantly more efficient. Our technicians and engineers use their automation and process know-how to supplement your own resources, giving you greater flexibility to meet new market requirements. As you transition into more interconnected machines and plants, our digital services help you use your data intelligently to distinguish yourself among the competition. Visit the Industry Services

team to learn how we help digitalize your production and keep your plant running.

### **Learning services that meet the needs of 21st century manufacturing**

Is your company identifying and keeping the right skilled people in your operations? Siemens Training Services can help manufacturers evaluate their workforce and design programs to improve job skills and gain required competencies in a cost-effective way. Stop by to speak to our technical learning team and find out the latest offerings and flexible training delivery options.

### **Harness the power of IoT**

MindSphere is the cloud-based, open Internet of Things operating system from Siemens that forms the foundation for connecting real things to the digital world. Every machine and system in your business provides a wealth of data with benefits yet to be fully realized. MindSphere helps you to evaluate and utilize your data in ways you had never previously envisioned – such as by optimizing the performance of your operating equipment to achieve maximum availability. In addition to offering data analysis and versatile connectivity, it also supplies tools for developers, applications and services. MindSphere enables you to transform this data into productive business results.

### **Siemens Solution Partners offer answers to Industry 4.0**

Certified Siemens Solution Partners are your experts for all things Industry 4.0. Whether it involves process automation, factory automation, drives and motion, machine tool, or industrial communications, there's an experienced Solution Partner near you. Siemens Solution Partners have the expertise in

delivering integrated manufacturing solutions to transform your business into a digital enterprise, and to ensure your competitive edge, with scalable solutions from Siemens!

### **Intelligent, efficient and reliable power infrastructure**

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 to the digitalization that integrates them, Siemens has an offering that is sure to make your facility a safe, intelligent and 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.

### **Smart, integrated communication, identification and power.**

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 with 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.

### **Process Instrumentation: Measuring everything that matters**

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.

### **Digitalization for Process Industries**

Discover Digitalization for the Process Industries by integrating engineering, operations and analytics. Come by and know more about the MindTwin: Your digital asset portal. XHQ, COMOS, Walkinside and MindSphere solutions combined creates a web portal where you can see the information you need, when and where you need it, with seamless access to all operational, engineering and business data, from any source and format. Analytics capabilities provided by MindSphere learn from your data and make predictions. COMOS Walkinside enables context and spatial orientation through 3D visualization. COMOS provides design data and XHQ aggregates all data and provides easy visualization. Come meet our experts to see how MindTwin provides better information for better decisions for your operation.

### **SIMATIC PCS 7 –**

#### **Integrated engineering and operations for process automation**

SIMATIC PCS 7 V9.0, the latest version of our proven process control system, is focused on the future-oriented opportunities of digitalization right through to field level. We expanded our system solution to include powerful and compact hardware products that support PROFINET, the world-leading industrial Ethernet standard – and allow greater freedom in plant design and operation.

# Training

## ■ **PCS 7 Workshop, Grabbing the Low Hanging Fruit**

You will learn from a combination of lecture, demonstration and hands-on experience how to effectively use the software innovations that you may have overlooked in PCS 7 V9. These new approaches will help improve your operator's experience around navigation, trending and alarm management, batch automation, as well as the maintenance of your system including electronic inventory, software updates, network troubleshooting and HART field asset integration.

## ■ **SIMIT Simulation Platform Hands-on Training**

Learn how to use SIMIT Simulation Platform to build a digital twin of your operating plant. By creating a simulation of your PCS 7 project, you can improve factory acceptance testing, check changes to your automation program, and develop an operator training system. You will experience SIMIT through a combination of lecture, demonstration, and hands-on

training. Highlights will include an exercise on SIMIT's integrated Virtual Controller for "hardware free" simulation during which you will learn how the Virtual Time Management and Snapshot features can be used for efficient operator training, a discussion about the advantages of testing changes to your control program in a simulated environment before implementing them in your operating plant, and a demonstration of how to use the CHEM BASIC Library to simplify the creation of pharmaceutical and chemical simulation models. We will share best practices we developed through our experience implementing SIMIT systems.

## ■ **PCS 7 and PROFINET: Building Robust Architectures**

We will review the "blueprints" for creating robust PCS 7 V9 and PROFINET architectures touching on the design, engineering, commissioning and maintenance phases – highlighting the tools and resources you have available. We

will discuss how you integrate simplex or redundant devices, your PROFINET network layout, how you add devices online and how to design for a future expansion. The workshop will discuss how you efficiently configure your project, including the engineer the system using Control Module Types.

## ■ **Discrete Engineering Lab**

Siemens invites you to experience the latest in automation system engineering efficiency with TIA Portal, engineering framework. Participants will have access to the latest version of the TIA Portal as well as a complete hardware set that includes the latest in SIMATIC PLCs, Panel HMIs, IO Systems, and SINAMICS General Purpose drives. This self-paced activity will guide the participant through a variety of commonly executed engineering tasks, including creating a PLC station hardware configuration, controller programming "best practices", adding and commissioning a PROFINET IO system, HMI and PLC integration, drive and PLC integration, and implementation of diagnostic messaging and display

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.

from all automation system components. Siemens experts will also be on hand to answer questions you may have. We look forward to seeing you!

■ **Simplified Transition from Safety Relays to SIMATIC S7-1200F Basic Safety Controller**

This interactive, hands-on workshop includes a brief discussion about the benefits of safety integrated basic controllers and ease of transition from safety relays to

safety PLC. We will provide you with the required guidance to simplify the process to move from safety relays to the innovative safety PLC so you will be confident and comfortable with your upcoming safety projects.

■ **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, camming, and kinematic

for handling application 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. New to V15 is the integration of handling functions and 2D to 4D kinematics into SIMATIC S7-1500 Technology CPUs. Participants in this S7-1500T Motion Workshop will work through hands-on labs to implement the motion functionalities in S7-1500 Technology CPU in TIA Portal V15.

■ **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 fourth 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 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. Come join!

■ **Startdrive V15 – G120 Safety Acceptance Test Made Easy**

This hands-on session will focus on the new G120 Safety Acceptance Test in Startdrive V15. This new feature of Startdrive V15 greatly reduces the time needed to verify and document the performance of the Drive Based Safety Integrated functions configured for your application. In this session we will be configuring the G120 Safety functions to be controlled via PROFIsafe. Special emphasis will be placed on demonstration of the SIMATIC LDrvSafe library. This Function Block library simplifies the PLC programming process for controlling the drive safety functions.

■ **Startdrive with S120!**

Startdrive V15 now supports the S120 Multi-axis drive system and opens up new possibilities of drive configuration from TIA portal projects. This hands-on session will introduce you to some of the new software features. Participants of this training session will use Startdrive V15 to configure an S120 Multi-axis drive for a positioning application.

■ **What’s in the details? – S120 and Startdrive V15**

This extended hands-on session will take a closer and more detailed look at the S120 support in Startdrive V15. Attendees will work through a series of labs that demonstrate the simplicity of commissioning, configuring Drive Safety and executing tuning with the new Startdrive V15. Additionally, you will learn about the SIMATIC block libraries that make the associated PLC programming for controlling the drive easier and more efficient. You will also see a demonstration of Openness; the feature that allows the dynamic reading and writing of drive parameters for an entire project.

■ **Customer Applications: PROFINET Enabled Control Products and TIA Portal**

This seminar will provide attendees with examples of several customer

applications that take advantage of our new PROFINET enabled Control Devices. Some of the examples include instructor led demonstrations of (1) a cost effective solution to reduce or eliminate pump blockage of a full voltage starter, and (2) a control panel solution where the wiring was greatly reduced by using PROFINET enabled pilot devices (Including E-stops). The seminar will also introduce the innovative 3RW5 series Soft Starter family that also has communication capabilities including PROFINET.

■ **S7-1500 Cyber Security Features**

The session will describe and explain the implementation of cyber security features that are contained within the S7-1500 PLC family. The session will also describe the mechanisms for securing an HMI Comfort Panels. A sample configuration will be examined. A hands-on session will create a secure VPN tunnel using the security capabilities of the TIA Portal.



# 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](http://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



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# Networking Events

**Monday, June 25**

## Welcome Reception

On Monday night of the conference, you can connect with your old and new friends at Quinns's on the Beach.

**Wednesday, June 27**

## Customer Appreciation Event

Ahoy there! Grab your eye patch and join captain Jack Sparrow and our crew as we sail the ocean blue – well, the Banyon Ballroom, to be precise. There be food, sea worthy drinks and networking.

*Arrr ye coming? 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.



TenarisBayCity, one of the Customer Excellence Award Winners from the 2017 event.



# Conference Details

Official website: [www.usa.siemens.com/summit](http://www.usa.siemens.com/summit)

## Register today!

**Dates:** June 25 - 28, 2018

**Location:** JW Marriott Marco Island Resort  
400 S Collier Blvd.  
Marco Island, FL 34145  
**Phone:** (239) 394-2511  
**Website:** [www.jwmarco.com](http://www.jwmarco.com)

The 2018 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 JW Marriott Marco Island Resort are covered, as are your conference meals, educational sessions, and networking events.

## Conference Fees

The full conference fee is **\$1795** and includes three nights of lodging, daily breakfast, lunch and all evening networking events.

### Early Career Engineer Fee – \$995

This type of attendee needs to be accompanied by a full-paying colleague from the same company (includes lodging.)

*Visit the event website for additional details.*

## Dress Code

Business casual attire will be appropriate for all occasions.



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