



**Rockwell
Automation**

TechEd

Europe, Middle East & Africa

SESSION SELECTION GUIDE

21 – 24 OCT, 2019 • MUNICH, GERMANY • INFINITY HOTEL & CONFERENCE RESORT

Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

SESSION SELECTION GUIDE

The ultimate training event

Rockwell Automation TechEd™ EMEA is the best place to learn about the latest technology. You can choose from more than 150 unique sessions – from beginner level overviews to in-depth, advanced hands-on labs – all while networking with peers from a wide range of industries.

To register to attend the event and sessions, visit www.rockwellautomation.com/TechED.

Once you are registered to attend, you can also register for sessions through the Events ROK App (available from mid-September). Download it today from your app store!

Session Tracks

APPLICATIONS & CASE STUDIES

CONTROL

DIGITAL ENGINEERING

INFORMATION & ANALYTICS

MARKET TRENDS & GROWTH STRATEGY

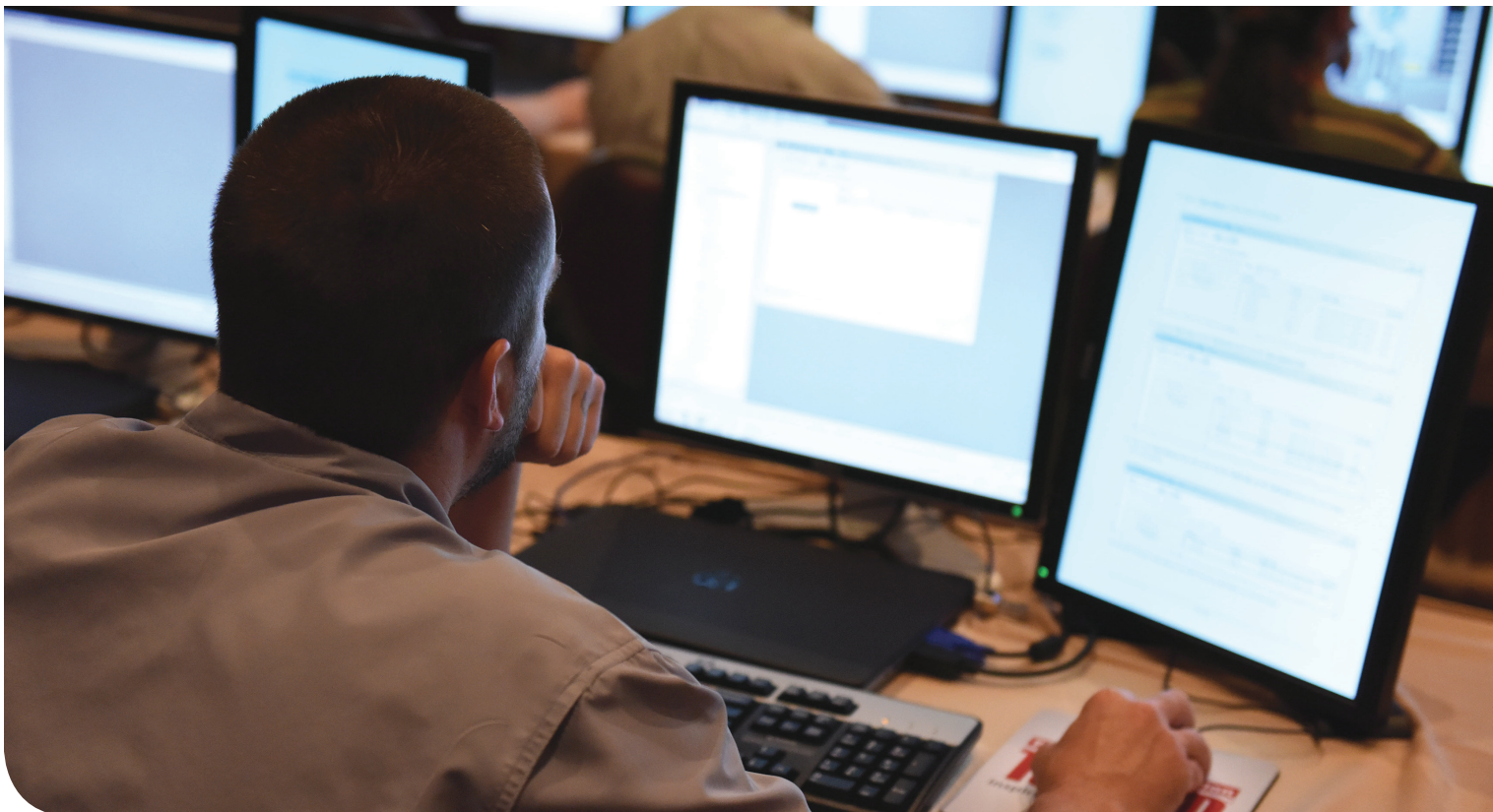
NETWORKS

PROCESS

SAFETY & SECURITY

SYSTEM

VISUALISATION & COLLABORATION



WEEK-AT-A-GLANCE

	MONDAY 21 October, 2019		TUESDAY 22 October, 2019	
8:00	Registration open		Keynote Session	
9:00			Sessions	
10:00			Sessions	
11:00			Sessions	
12:00			Sessions	
13:00			Lunch	
14:00		Sessions	Sessions	
15:00		Sessions	Sessions	
16:00		Sessions	Sessions	
17:00		Sessions	Sessions	
18:00		Welcome reception		
19:00				
20:00				
21:00				
22:00				

WEDNESDAY 23 October, 2019	THURSDAY 24 October, 2019	
Keynote session	Sessions	8:00
Sessions	Sessions	9:00
Sessions	Sessions	10:00
Sessions	Sessions	11:00
Sessions	Lunch	12:00
Lunch	Sessions	13:00
Sessions	Sessions	14:00
Sessions	Sessions	15:00
Sessions	Sessions	16:00
Sessions		17:00
		18:00
EdFest		19:00
		20:00
		21:00
		22:00

MONDAY LAB SCHEDULE

Room	Ballsaal Alpsee / Drop in room	Tegernsee I	Tegernsee II	Tegernsee III	Tegernsee IV
14:00	Experience Rockwell Automation technologies at your own pace. Drop-in and find out about the base features of our key product platforms through hands on labs.	NT10	CL12	VZ03	SY11
15:00		Basic Stratix® Switch and EtherNet/IP Features in Converged Plantwide Ethernet (CPwE) Architectures	Integrated Motion on EtherNet/IP: Advanced Lab	Designing Machine-level HMI with PanelView™ 5000 and Studio 5000® View Designer®: Basic Lab	ThinManager® Experience the Platform's Power and Simplicity: Basic Lab
16:00		SS17	SS10	VZ04	SY12
17:00		Introduction to Network Security Lab	Developing Advanced Safety Applications Using the Allen-Bradley® GuardLogix® Integrated Safety Controller Platform	Designing Machine-level HMI with PanelView™ 5000 and Studio 5000® View Designer®: Advanced Lab	ThinManager® From New Server to Completed Deployment: Advanced Lab



	Tegernsee V	Multifunktions	Pilsensee	Bodensee I	Worthsee	Walchensee	Room
	CL07	CL11	CL17	IN09	SS13	SY30	14:00
	Studio 5000® Logix Designer® Application: Basics Lab	Integrated Motion on EtherNet/IP: Basic Lab	Connected Components Workbench™ software Lab	Empowering a Digital Worker Using Augmented Reality	Smart Safety Systems: Reducing costs, downtime, and injuries	MagneMotion® Independent Cart Technology: Hands-on Experience	15:00
	CL08			IN06	CL05	SY33	16:00
	Studio 5000® Logix Designer® Application: Advanced Lab			Building Meaningful Storyboards (Dashboards) and KPIs Using FactoryTalk® InnovationSuite	Reducing Waste with FactoryTalk® Analytics™ LogixAI™ Embedded Analytics	Simulation to optimise MagneMotion® and iTRAK® system design	17:00



TUESDAY DEMO & DISCUSSION SCHEDULE

Room	Ammersee I	Ammersee II	Schliersee	Gold	Green
8:00	Keynote Session				
9:00	NT31 Tips and Tricks for deploying Network Address Translation (NAT) in small or complex architectures	CL36 Smart Motor Control with PowerFlex AC Drives	NT34 Improve Visibility and Diagnostics of Your Network with FactoryTalk Network Manager	MG01 How IIoT platforms take operational systems to the next level for businesses	IN11 Benefit from Anomaly Detection and Predictive Maintenance
10:00	SY32 FactoryTalk ThinManager - The Future of Industrial Mobility	SS30 Developing Safety Motion Applications by leveraging the Kinetix® 5700 Advanced Safety Functions	CL01 Integrated Architecture® System Hardware - What's New	MG02 The role for the SI in the Digital Transformation / Industry 4.0 creates new opportunities	CL16 Connected Components Workbench™ software - What's New
11:00	NT33 Reduce the time to deploy, duplicate and maintain Stratix managed switches		CL13 PowerFlex® Variable Frequency Drives - What's New and What's Next	MG03 Accelerating Industry 4.0 with Digital Manufacturing Solutions	CL04 How to Propel a Digital Transformation Culture Change with Fit For Purpose Applications with Embedded Analytics
12:00		SY31 Advanced network safety solutions using Kinetix® and PowerFlex drives	VZ02 How to improve plant operations through better HMI graphics	MG04 Modern & intelligent filling and closing machines realised with newest Rockwell Automation technology	CL09 Integrated Motion on EtherNet/IP: Solution Overview
13:00	Lunch				
14:00	CL37 Experience the value of Smart Machines to enable The Connected Enterprise	SY21 Kinetix iTRAK® Small Frame: from Zero to Motion in one hour	SY17 Integrated Condition Monitoring: Dynamix™ Basics and Demonstration	MG05 Sensia - the Oil and Gas Industry's First Fully Integrated Automation Solutions Provider	CL15 Smart Devices: Enabled with IO-Link Technology
15:00		VZ01 Visualisation at Rockwell Automation - What's New and What's Next	CL02 Integrated Architecture® System Software - What's New	MG06 OSISoft PI Interface to Rockwell Automation PharmaSuite	SS18 Deploy Secure Network Architectures for The Connected Enterprise
16:00	CL33 Fundamentals of EMI/Noise and installation best practices to mitigate it	SY20 Independent Cart Technology Solutions		MG07 Software selling - or how to deal with subscriptions	
17:00		SS08 What's New and Coming Soon in Safety Automation Architectures	VZ06 Best practices for migrating advanced PanelView™ Plus applications to PanelView™ 5000 using Studio 5000® View Designer®	MG08 Tools simplify your daily work	

	Blue	Orange	Kochelsee	e-coffee	Room
	Keynote Session				8:00
	SS22	PR01	CL19	AP10	9:00
	CIP Security: Improving Control System Defense-in-Depth Security	Overview of the PlantPax® System - What's New & What's Next	Reconfigurable 3D Sensing with Swift-E	Mettler-Toledo - Benefit from digital load cell technology, easy connectivity (IoT), configuration and preventive maintenance	
	SS01	PR02	SY08	AP02	10:00
	Functional Safety Standards and the Changing Compliance Landscape	Defining and Sizing PlantPax® Systems - Best Practices and What's Coming	Developing Information Ready Applications using Smart Tags and Rockwell Automation Edge Devices	Cisco - The Next Phase of the IT/OT Integration - Extending IT Security to the Cell/Area Zone of the Plant Architecture	
	NT01	PR03	SS26	AP14	11:00
	Fundamentals of EtherNet/IP IIoT Network Technology	Implementation of PlantPax® Systems - Best Practices and What's New	Logix Intellectual Property Protection for Machine Builders and End Users	Pepperl+Fuchs - More Efficiency by maintenance tasks with Mobile Computing in the hazardous area	
			SY04	AP07	12:00
			Studio 5000® Application Code Manager: Introduction and Demonstration	JVL A/S - Advanced Stepper motors for automation	
	Lunch				13:00
	NT04	PR04	DE03	AP20	14:00
	Design Considerations for more reliable EtherNet/IP Networking	Introduction to the Rockwell Automation® Library of Process Objects	Virtual Commissioning and Virtual Reality Using Emulate3D Software	WIN-911 Software - Learn How the NEW Mobile Smartphone App Extends Visibility and Handling of Alarms and Events	
		PR05	SY13	AP08	15:00
		Advanced Functionality and New Features of the Rockwell Automation® Library of Process Objects	ControlFLASH Plus™ - Overview and Demo	Linmot - Replacing Pneumatics in the era of Industry 4.0	
	IN02	PR20	DE07	AP16	16:00
	Empower your Connected Enterprise with FactoryTalk® InnovationSuite powered by PTC	I/O Solutions: Apply High Availability, Functional Safety & Intrinsic Safety in High Performance Process Applications	PTC Creo: Design faster and smarter by connecting your 3D digital design to your physical products	Softing - CompactLogix™ and ControlLogix® Data Exchange Solutions for SQL Database	
	IN10	PR11	VZ05	AP06	17:00
	What Machine Learning can do for you using FactoryTalk® InnovationSuite	Following the ISA-18.2 Lifecycle to Improved Alarm System Performance	Designing Machine-level HMI with Studio 5000® View Designer® Demonstration	Grace Engineered Products - Enhanced System Reliability with intelligent sensing, predictive analytics, and robust web-enabled technology	

TUESDAY LAB SCHEDULE

Room	Ballsaal Alpsee / Drop in room	Tegernsee I	Tegernsee II	Tegernsee III	Tegernsee IV	Tegernsee V
8:00	Keynote Session					
9:00	Experience Rockwell Automation technologies at your own pace. Drop-in and find out about the base features of our key product platforms through hands on labs.	NT10	CL12	VZ03	SY11	CL07
10:00		Basic Stratix® Switch and EtherNet/IP Features in Converged Plantwide Ethernet (CPwE) Architectures	Integrated Motion on EtherNet/IP: Advanced Lab	Designing Machine-level HMI with PanelView™ 5000 and Studio 5000® View Designer®: Basic Lab	ThinManager® Experience the Platform's Power and Simplicity: Basic Lab	Studio 5000® Logix Designer® Application: Basics Lab
11:00		SS17	CL12	VZ04	SY12	CL08
12:00		Introduction to Network Security Lab	Integrated Motion on EtherNet/IP: Advanced Lab	Designing Machine-level HMI with PanelView™ 5000 and Studio 5000® View Designer®: Advanced Lab	ThinManager® From New Server to Completed Deployment: Advanced Lab	Studio 5000® Logix Designer® Application: Advanced Lab
13:00	Lunch					
14:00	Experience Rockwell Automation technologies at your own pace. Drop-in and find out about the base features of our key products platforms through hands on labs.	NT11	SS10	VZ11	SY11	SY19
15:00		Advanced Stratix® Switch and EtherNet/IP Features in Converged Plantwide Ethernet (CPwE) Architectures	Developing Advanced Safety Applications Using the Allen-Bradley® GuardLogix® Integrated Safety Controller Platform	Implementing FactoryTalk® Alarms and Events	ThinManager® Experience the Platform's Power and Simplicity: Basic Lab	Using FactoryTalk® Linx, OPC UA and KEPServer Enterprise Comms with for FactoryTalk® and 3rd party software.
16:00		NT12	SS10	SY15	SY12	SS20
17:00		Improve Visibility and Diagnostics of your network with FactoryTalk® Network Management (FTNM) Software	Developing Advanced Safety Applications Using the Allen-Bradley® GuardLogix® Integrated Safety Controller Platform	Getting started with FactoryTalk® AssetCentre	ThinManager® From New Server to Completed Deployment: Advanced Lab	Advanced Design, Management, and Implementation of FactoryTalk® Security in a Control System

Multifunktions	Pilsensee	Bodensee I	Bodensee II	Worthsee	Walchensee	Room
Keynote Session						8:00
CL11	CL17	IN06	SY05	SS13	DE05	9:00
Integrated Motion on EtherNet/IP: Basic Lab	Connected Components Workbench™ software Lab	Building Meaningful Storyboards (Dashboards) and KPIs Using FactoryTalk® InnovationSuite	Studio 5000® Application Code Manager Project Execution and Library Management: Lab	Smart Safety Systems: Reducing costs, downtime, and injuries	iTRAK: Design to Simulation with Emulate3D	
						10:00
VZ15	PR13	IN09	VZ08	DE04	DE06	11:00
Troubleshooting with Analytics for Devices and FactoryTalk TeamONE Hands-On Experience	Controller-based Batching Using SequenceManager™	Empowering a Digital Worker Using Augmented Reality	Distributed HMI with FactoryTalk® View Site Edition: Basic Lab	Virtual Commissioning Using Emulate3D Software: Hands On Lab	MagneMotion®: Design to Simulation with Emulate3D	
						12:00
Lunch						13:00
SY02	PR15	IN01	VZ10	CL05	SY30	14:00
Integrated Architecture® Tools: Integrated Architecture® Builder, Motion Analyzer and ProposalWorks™: Basic Lab	PlantPAx® Process Application Development	Connect the ThingWorx Manufacturing Apps to Rockwell Automation Assets using FactoryTalk Live Data	FactoryTalk® View SE: Redundancy, Configuration and Maintenance	Reducing Waste with FactoryTalk® Analytics™ LogixAI™ Embedded Analytics	MagneMotion® Independent Cart Technology: Hands-on Experience	
						15:00
	PR14	IN05	VZ12	SS23	SY33	16:00
	Distributed Batch: Deploying Controller-based Sequences with FactoryTalk® Batch	Data Management and Analytics Using FactoryTalk® Historian with InnovationSuite	Machine-level HMI with FactoryTalk® View Machine Edition Application: Basic Lab	CIP Security Improves Control System Defense-in-Depth Security	Simulation to optimise MagneMotion® and iTRAK® system design	

WEDNESDAY DEMO & DISCUSSION SCHEDULE

Room	Ammersee I	Ammersee II	Schliersee	Gold	Green
8:00	Keynote Session				
9:00	NT31 Tips and Tricks for deploying Network Address Translation (NAT) in small or complex architectures	SS31 Save money being safer	VZ06 Best practices for migrating advanced PanelView™ Plus applications to PanelView™ 5000 using Studio 5000® View Designer®	MG09 PlantPax DCS helps to lower fossil fuel emissions	SY01 Studio 5000® Architect® Introduction and Demonstration
10:00	SY32 FactoryTalk ThinManager - The Future of Industrial Mobility	CL35 Machine start-up made easy	CL01 Integrated Architecture® System Hardware - What's New	MG10 Rockwell Automation resonant solutions used by Azov Controls during automatic control mode implementation of sintering machine	
11:00	NT32 Benefits of Time Synchronisation (CIP Sync) in modern EtherNet/IP network architectures.		CL13 PowerFlex® Variable Frequency Drives - What's New and What's Next	MG11 Beyond the classroom - digital learning in the corporate environment	CL04 How to Propel a Digital Transformation Culture Change with Fit For Purpose Applications with Embedded Analytics
12:00		SY31 Advanced network safety solutions using Kinetix® and PowerFlex drive	SS16 Cyber Security - Why? And Where Do I Start?	MG12 Learn the Industry Language and get the right skillset with Rockwell Automation	CL09 Integrated Motion on EtherNet/IP: Solution Overview
13:00	Lunch				
14:00	SY18 Communications using FactoryTalk® Linx, OPC UA and KEPServer Enterprise: new capability overview and demonstration	SY09 ThinManager® Architecture and Best Practices: Discussion	VZ02 How to Improve Plant Operations through Better HMI Graphics	MG13 Successful risk estimation and assessment in ride design	IN11 Benefit from Anomaly Detection and Predictive Maintenance
15:00		VZ01 Visualisation at Rockwell Automation - What's New and What's Next	CL02 Integrated Architecture® System Software - What's New	MG14 Success of digitalising a discrete manufacturing in production; marketing and after sales	SS18 Deploy Secure Network Architectures for The Connected Enterprise
16:00	CL33 Fundamentals of EMI/Noise and installation best practices to mitigate it	SY20 Independent Cart Technology Solutions	CL06 Studio 5000® Logix Designer® Application: Overview & Demo	MG15 Workforce of the Future - Disrupting the Talent Status Quo	
17:00		SS08 What's New in Safety?		MG16 Tips and Tricks - How to get the most out of our Rockwell Automation PartnerNetwork™ Portal	

Blue	Orange	Kochelsee	e-coffee	Room
Keynote Session				8:00
IN02	PR01	VZ05	AP04	9:00
Empower your Connected Enterprise with FactoryTalk® InnovationSuite powered by PTC	Overview of the PlantPAx® System - What's New & What's Next	Designing Machine-level HMI with Studio 5000® View Designer® Demonstration	Control Station - Tune PID Controllers in 6 Easy Steps	
	PR02	CL18	AP15	10:00
	Defining and Sizing PlantPAx® Systems - Best Practices and What's Coming	FLEX 5000 I/O: Use Standard and Safety in One Application	ProSoft Technology - Modernise Your legacy equipment to newest Rockwell Automation EtherNet/IP™ based solution!	
SS24	PR03	SS26	AP19	11:00
Security for Thin Client Deployments	Implementation of PlantPAx® Systems - Best Practices and What's New	Logix Intellectual Property Protection for Machine Builders and End Users	Stratus - Protect on-premise software applications with a new world of industrial edge computing	
NT08			SY04	AP17
Selecting the Right Stratix® Switch for your Application		Studio 5000® Application Code Manager: Introduction and Demonstration	Spectrum Controls - Universal Industrial Gateway - Connect Multiple Devices, Across Multiple Protocols, in a Single Gateway Box	
Lunch				13:00
NT04	PR06	DE03	AP09	14:00
Design Considerations for more reliable EtherNet/IP Networking	Administration and Maintenance of PlantPAx® Systems - Best Practices and What's New	Virtual Commissioning and Virtual Reality Using Emulate3D Software	Linmot - Fast, reliable capping and assembly processes with Linear Rotary Motors from LinMot. A component that fits the needs of Industry 4.0	
	PR07	CL19	AP11	15:00
	Deploy and Manage a Virtualised PlantPAx® System	Reconfigurable 3D Sensing with Swift-E	nVent GmbH (Hoffman) - The Role of Cooling in Industrial Enclosures	
NT05	PR08	DE07	AP05	16:00
Deploy Resilient Network Architectures for The Connected Enterprise	Securing and Connecting Your PlantPAx® Systems to the Enterprise: 62443-3-3 Best Practices	PTC Creo: Design faster and smarter by connecting your 3D digital design to your physical products	EPLAN - Integrated Interdisciplinary Engineering Manufacturing Workflow Solutions	
	PR12	IN08		17:00
	Batch Management: Overview and What's New and What's Next	Quality and Production Management with FactoryTalk® InnovationSuite		

WEDNESDAY LAB SCHEDULE

Room	Ballsaal Alpsee / Drop in room	Tegernsee I	Tegernsee II	Tegernsee III	Tegernsee IV	Tegernsee V
8:00	Keynote Session					
9:00	Experience Rockwell Automation technologies at your own pace. Drop-in and find out about the base features of our key product platforms through hands on labs.	NT10	CL12	SY16	SY11	CL07
10:00		Basic Stratix® Switch and EtherNet/IP Features in Converged Plantwide Ethernet (CPwE) Architectures	Integrated Motion on EtherNet/IP: Advanced Lab	Become a superhero with FactoryTalk® AssetCentre's advanced system features	ThinManager® Experience the Platform's Power and Simplicity: Basic Lab	Studio 5000® Logix Designer® Application: Basics Lab
11:00		SS17	CL12	VZ03	SY12	CL03
12:00		Introduction to Network Security Lab	Integrated Motion on EtherNet/IP: Advanced Lab	Designing Machine-level HMI with PanelView™ 5000 and Studio 5000® View Designer®: Basic Lab	ThinManager® From New Server to Completed Deployment: Advanced Lab	Discover the Value of Scalable Compute
13:00	Lunch					
14:00	Experience Rockwell Automation technologies at your own pace. Drop-in and find out about the base features of our key product platforms through hands on labs.	NT11	SS10	VZ04	SY11	SS19
15:00		Advanced Stratix® Switch and EtherNet/IP Features in Converged Plantwide Ethernet (CPwE) Architectures	Developing Advanced Safety Applications Using the Allen-Bradley® GuardLogix® Integrated Safety Controller Platform	Designing Machine-level HMI with PanelView™ 5000 and Studio 5000® View Designer®: Advanced Lab	ThinManager® Experience the Platform's Power and Simplicity: Basic Lab	Using FactoryTalk® Linx, OPC UA and KEPServer Enterprise Comms with for FactoryTalk® and 3rd party software.
16:00		NT12	SS10	VZ11	SY12	SS20
17:00		Improve Visibility and Diagnostics of your network with FactoryTalk® Network Management (FTNM) Software	Developing Advanced Safety Applications Using the Allen-Bradley® GuardLogix® Integrated Safety Controller Platform	Implementing FactoryTalk® Alarms and Events	ThinManager® From New Server to Completed Deployment: Advanced Lab	Advanced Design, Management, and Implementation of FactoryTalk® Security in a Control System

Multifunktions	Pilsensee	Bodensee I	Bodensee II	Worthsee	Walchensee	Room
Keynote Session						8:00
CL11	CL17	IN01	SY05	SS13	DE05	9:00
Integrated Motion on EtherNet/IP: Basic Lab	Connected Components Workbench™ software Lab	Connect the ThingWorx Manufacturing Apps to Rockwell Automation Assets using FactoryTalk Live Data	Studio 5000® Application Code Manager Project Execution and Library Management: Lab	Smart Safety Systems: Reducing costs, downtime, and injuries	iTRAK: Design to Simulation with Emulate3D	
VZ15	PR13	IN05		DE04	DE06	11:00
Troubleshooting with Analytics for Devices and FactoryTalk TeamONE Hands-On Experience	Controller-based Batching Using SequenceManager™	Data Management and Analytics Using FactoryTalk® Historian with InnovationSuite		Virtual Commissioning Using Emulate3D Software: Hands On Lab	MagneMotion®: Design to Simulation with Emulate3D	
Lunch						13:00
SY02	PR15	IN30	VZ12	CL05	SY30	14:00
Integrated Architecture® Tools: Integrated Architecture® Builder, Motion Analyzer and ProposalWorks™: Basic Lab	PlantPAx® Process Application Development	The ThingWorx platform in action	Machine-level HMI with FactoryTalk® View Machine Edition Application: Basic Lab	Reducing Waste with FactoryTalk® Analytics™ LogixAI™ Embedded Analytics	MagneMotion® Independent Cart Technology: Hands-on Experience	
	PR14	IN04	VZ13	SS23	SY33	16:00
	Distributed Batch: Deploying Controller-based Sequences with FactoryTalk® Batch	FactoryTalk® InnovationSuite Edge Analytics Help Deliver Information Where It's Needed Most	Machine-level HMI including 21 CFR Part 11 with FactoryTalk® View Machine Edition: Advanced Lab	CIP Security Improves Control System Defense-in-Depth Security	Simulation to optimise MagneMotion® and iTRAK® system design	17:00

THURSDAY DEMO & DISCUSSION SCHEDULE

Room	Ammersee I	Ammersee II	Schliersee	Gold	Green
8:00	NT32	CL36	NT34		SY01
	Benefits of Time Synchronisation (CIP Sync) in modern EtherNet/IP network architectures.	Smart Motor Control with PowerFlex AC Drives	Improve Visibility and Diagnostics of Your Network with FactoryTalk Network Manager		Studio 5000® Architect® Introduction and Demonstration
9:00	SY32	SS30	CL01		CL16
	FactoryTalk ThinManager - The Future of Industrial Mobility	Developing Safety Motion Applications by leveraging the Kinetix® 5700 Advanced Safety Functions	Integrated Architecture® System Hardware - What's New		Connected Components Workbench™ software - What's New
10:00	NT33	SY09	CL13	PR09	
	Reduce the time to deploy, duplicate and maintain Stratix managed switches	ThinManager® Architecture and Best Practices: Discussion	PowerFlex® Variable Frequency Drives - What's New and What's Next	How to Implement an Effective Operator Workstation	
11:00		SS31	SS16		
		Save money being safer	Cyber Security - Why? And Where Do I Start?		
12:00	Lunch				
13:00	CL37	SY21	SY17	SY22	CL15
	Experience the value of Smart Machines to enable The Connected Enterprise	Kinetix iTRAK® Small Frame: from Zero to Motion in one hour	Integrated Condition Monitoring: Dynamix™ Basics and Demonstration	The Future of Software Purchase and Maintenance	Smart Devices: Enabled with IO-Link Technology
14:00		VZ01	CL02		SS18
		Visualisation at Rockwell Automation - What's New and What's Next	Integrated Architecture® System Software - What's New		Deploy Secure Network Architectures for The Connected Enterprise
15:00		CL35	CL06		
		Machine start-up made easy	Studio 5000® Logix Designer® Application: Overview & Demo		
16:00					

	Blue	Orange	Kochelsee	e-coffee	Room
	SS01	PR06			8:00
	Functional Safety Standards and the Changing Compliance Landscape	Administration and Maintenance of PlantPax® Systems - Best Practices and What's New			
	IN02	PR07	SY08		9:00
	Empower your Connected Enterprise with FactoryTalk® InnovationSuite powered by PTC	Deploy and Manage a Virtualised PlantPax® System	Developing Information Ready Applications using Smart Tags and Rockwell Automation Edge Devices		
	SS24	PR08	SY13	AP01	10:00
	Security for Thin Client Deployments	Securing and Connecting Your PlantPax® Systems to the Enterprise: 62443-3-3 Best Practices	ControlFLASH Plus™ - Overview and Demo	Cape Software - Advancements in Rockwell Automation Safety System Testing and Training	
	NT08	PR12	SY04	AP18	11:00
	Selecting the Right Stratix® Switch for your Application	Batch Management: Overview and What's New and What's Next	Studio 5000® Application Code Manager: Introduction and Demonstration	STÖBER - Applying Integrated Gear and Hollow Bore Motors into your Kinetix® 5700/6500 system	
	Lunch				12:00
	NT01	PR04	DE03	AP12	13:00
	Fundamentals of EtherNet/IP IIoT Network Technology	Introduction to the Rockwell Automation® Library of Process Objects	Virtual Commissioning and Virtual Reality Using Emulate3D Software	Ocean Data Systems - Dream Report: World's best-in-class reporting and dashboarding for industrial automation	
		PR05	CL18	AP13	14:00
		Advanced Functionality and New Features of the Rockwell Automation® Library of Process Objects	FLEX 5000 I/O: Use Standard and Safety in One Application	Panduit - Turning Standards into Future-Proof Solutions: All the Way to the Edge	
	IN02	PR20	DE07	AP03	15:00
	What Machine Learning can do for you using FactoryTalk® InnovationSuite	I/O Solutions: Apply High Availability, Functional Safety & Intrinsic Safety in High Performance Process Applications	PTC Creo: Design faster and smarter by connecting your 3D digital design to your physical products	Claroty - Three Use Cases: Increased Cybersecurity Saved Money and Reduced Business Risk	
	SS22	PR11	IN08		16:00
	CIP Security: Improving Control System Defense-in-Depth Security	Following the ISA-18.2 Lifecycle to Improved Alarm System Performance	Quality and Production Management with FactoryTalk® InnovationSuite		

THURSDAY LAB SCHEDULE

Room	Ballsaal Alpsee / Drop in room	Tegernsee I	Tegernsee II	Tegernsee III	Tegernsee IV	Tegernsee V
8:00	Experience Rockwell Automation technologies at your own pace. Drop-in and find out about the base features of our key product platforms through hands on labs.	NT10	CL12	VZ03	SY11	CL03
9:00		Basic Stratix® Switch and EtherNet/IP Features in Converged Plantwide Ethernet (CPwE) Architectures	Integrated Motion on EtherNet/IP: Advanced Lab	Designing Machine-level HMI with PanelView™ 5000 and Studio 5000® View Designer®: Basic Lab	ThinManager® Experience the Platform's Power and Simplicity: Basic Lab	Discover the Value of Scalable Compute
10:00		SS17	CL12	VZ04	SY12	CL08
11:00		Introduction to Network Security Lab	Integrated Motion on EtherNet/IP: Advanced Lab	Designing Machine-level HMI with PanelView™ 5000 and Studio 5000® View Designer®: Advanced Lab	ThinManager® From New Server to Completed Deployment: Advanced Lab	Studio 5000® Logix Designer® Application: Advanced Lab
12:00	Lunch					
13:00	Experience Rockwell Automation technologies at your own pace. Drop-in and find out about the base features of our key product platforms through hands on labs.	NT11	SS10	VZ11	SY11	SY19
14:00		Advanced Stratix® Switch and EtherNet/IP Features in Converged Plantwide Ethernet (CPwE) Architectures	Developing Advanced Safety Applications Using the Allen-Bradley® GuardLogix® Integrated Safety Controller Platform	Implementing FactoryTalk® Alarms and Events	ThinManager® Experience the Platform's Power and Simplicity: Basic Lab	Using FactoryTalk® Linx, OPC UA and KEPServer Enterprise Comms with for FactoryTalk® and 3rd party software.
15:00		NT12	SS10	SY16	SY12	SS19
16:00		Improve Visibility and Diagnostics of your network with FactoryTalk® Network Management (FTNM) Software	Developing Advanced Safety Applications Using the Allen-Bradley® GuardLogix® Integrated Safety Controller Platform	Become a superhero with FactoryTalk® AssetCentre's advanced system features	ThinManager® From New Server to Completed Deployment: Advanced Lab	Introduction to the Design and Implementation of FactoryTalk® Security in a Control System

	Multifunktions	Pilsensee	Bodensee I	Bodensee II	Worthsee	Walchensee	Room
	CL11	CL17	IN06	SY05	SS13	DE05	8:00
	Integrated Motion on EtherNet/IP: Basic Lab	Connected Components Workbench™ software Lab	Building Meaningful Storyboards (Dashboards) and KPIs Using FactoryTalk® InnovationSuite	Studio 5000® Application Code Manager Project Execution and Library Management: Lab	Smart Safety Systems: Reducing costs, downtime, and injuries	iTRAK: Design to Simulation with Emulate3D	9:00
	VZ15	PR13	IN09	VZ08	DE04	DE06	10:00
	Troubleshooting with Analytics for Devices and FactoryTalk TeamONE Hands-On Experience	Controller-based Batchng Using SequenceManager™	Empowering a Digital Worker Using Augmented Reality	Distributed HMI with FactoryTalk® View Site Edition: Basic Lab	Virtual Commissioning Using Emulate3D Software: Hands On Lab	MagneMotion®: Design to Simulation with Emulate3D	11:00
	Lunch						12:00
	SY02	PR15	IN30	VZ10	CL05	SY30	13:00
	Integrated Architecture® Tools: Integrated Architecture® Builder, Motion Analyzer and ProposalWorks™: Basic Lab	PlantPAx® Process Application Development	The ThingWorx platform in action	FactoryTalk® View SE: Redundancy, Configuration and Maintenance	Reducing Waste with FactoryTalk® Analytics™ LogixAI™ Embedded Analytics	MagneMotion® Independent Cart Technology: Hands-on Experience	14:00
		PR14	IN04	VZ13		SY33	15:00
		Distributed Batch: Deploying Controller-based Sequences with FactoryTalk® Batch	FactoryTalk® InnovationSuite Edge Analytics Help Deliver Information Where It's Needed Most	Machine-level HMI including 21 CFR Part 11 with FactoryTalk® View Machine Edition: Advanced Lab		Simulation to optimise MagneMotion® and iTRAK® system design	16:00

SESSION DESCRIPTIONS

Session Tracks

APPLICATIONS & CASE STUDIES
CONTROL
DIGITAL ENGINEERING
INFORMATION & ANALYTICS

MARKET TREND & GROWTH STRATEGY
NETWORKS
PROCESS
SAFETY & SECURITY

SYSTEM
VISUALISATION & COLLABORATION

APPLICATIONS & CASE STUDIES

AP01 Cape Software: Advancements in Rockwell Automation Safety System Testing and Training

Discussion 1 hour e-Coffee
 Thursday: 10:00

Rockwell Automation Safety Platforms now allow very large systems to be tested with excellent fidelity. The newly supported Trusted Emulator works with other Rockwell Automation Safety Platforms to provide a fully functional heterogeneous system that can prove the functionality of the system before startup. This talk gives an update to possible test configurations, improving commissioning time and Application-to-Operator Training Simulators.

AP02 Cisco: The Next Phase of the IT/OT Integration - Extending IT Security to the Cell/Area Zone of the Plant Architecture

Discussion 1 hour e-Coffee
 Tuesday: 10:00

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.

AP03 Claroty: Three Use Cases: Increased Cybersecurity Saved Money and Reduced Business Risk

Discussion 1 hour e-Coffee
 Thursday: 15:00

The challenges of rising cyber risks within industrial plants and factories are being felt through financial losses. This presentation will share three real use cases (mining, power generation, manufacturing) from industrial and critical infrastructure organisations, with challenge, solution scope and benefits – showing how increased industrial cybersecurity has saved money and reduced business risk.

AP04 Control Station: Tune PID Controllers in 6 Easy Steps

Discussion 1 hour e-Coffee
 Wednesday: 9:00

Tuning PID controllers can be a regular source of frustration. That is especially true when dealing with non-linear flow, sluggish temperature and unstable level controllers. This session showcases a step-by-step procedure for tuning Logix, SLC™ and PLC-5® controllers that is 1) intuitive and 2) repeatable, using Control Station's LOOP-PRO TUNER.

AP05 EPLAN: Integrated Interdisciplinary Engineering Manufacturing Workflow Solutions

Discussion 1 hour e-Coffee
 Wednesday: 16:00

To obtain corporate predictable profitability in a competitive market, tools used in design and manufacturing must provide harmony from basic data creation to numerical controls instructional reports. A few corporations have achieved this level of a complete workflow that transcends to pre-sales solutions as well. The EPLAN Platform can be the corporate enlightenment.

AP06 Grace Engineered Products: Enhanced System Reliability with intelligent sensing, predictive analytics, and robust web-enabled technology

Discussion 1 hour e-Coffee
 Tuesday: 17:00

Manufacturing facilities and other critical infrastructure around the globe are experiencing a major generational shift in terms of how they operate and maintain their equipment. Increased productivity pressures and high uptime demands of equipment, combined with a shortage of qualified maintenance personnel, are driving facilities to rely more than ever on predictive maintenance tools (PdM).

AP07 JVL A/S: Advanced Stepper motors for automation

Discussion 1 hour e-Coffee
 Tuesday: 12:00

New integrated stepper motors with servo features can be an excellent choice for low-power movements. They are perfect for automatic format change and setup axis. The session provides engineers with an overview of available technologies that integrate with Studio 5000®. The session specifically focuses on high-torque ServoStep motors with absolute multi turn encoders, and the superior advantages when used in certain applications and what are the limitations. Includes 5 min setup instruction in Studio 5000.

AP08 Linmot: Replacing Pneumatics in the era of Industry 4.0

Discussion 1 hour e-Coffee
Tuesday: 15:00

Energy efficiency of pneumatic actuators according to EU studies is far below 10%. In Europe alone, 80 TWh of energy is required every year just for compressed air preparation (equivalent to 7.5 nuclear power plants).

To get ready for Industry 4.0, machine builders are looking for higher flexibility actuators to handle smaller production lots, for improved process stability and detailed actuator feedback from each production step. Tubular linear motors, that are easy to integrate into Rockwell Automation control architectures, may offer an interesting solution to replace pneumatics.

AP09 Linmot: Fast, more reliable capping and assembly processes with Linear Rotary Motors from LinMot. A component that fits the needs of Industry 4.0

Discussion 1 hour e-Coffee
Wednesday: 14:00

Capping and assembly processes are complex applications. Finding the right process sometimes isn't easy. LinMot linear rotary motors, however, make things comfortable. Our linear rotary motors offer a combination of two independent servo motors, perfectly built into one housing, including options for integrated force and torque sensors. Evaluating parameters, monitoring each cycle and validating every single step of your process in real time was never so easy.

AP10 Mettler-Toledo: Benefit from digital load cell technology, easy connectivity (IoT), configuration and preventive maintenance

Discussion 1 hour e-Coffee
Tuesday: 9:00

Digital load cell technology and modern weight transmitter technology offer benefits to machine builders, system integrator and end users. POWERCELL is the new technology from Mettler Toledo setting standards in easy PLC integration, high precision, connectivity (to cloud), condition monitoring, remote service and preventive maintenance.

AP11 nVent GmbH: The Role of Cooling in Industrial Enclosures

Discussion 1 hour e-Coffee
Wednesday: 15:00

In complex processing facilities, high asset availability allows for work processes to operate smoothly and efficiently. Machine assets in automated facilities are often scheduled to work continuously, and when those assets are no longer available, businesses incur the costs of unscheduled downtime. This presentation discusses the vital role that proper cooling of industrial control cabinets plays in minimising unscheduled downtime.

AP12 Ocean Data Systems: Dream Report – The world's best-in-class reporting and dashboarding for industrial automation

Discussion 1 hour e-Coffee
Thursday: 13:00

The world's most recommended, user friendly, web-based, 3-in-1 reporting and dashboarding solution for industrial automation for non-programming users. Perfectly integrated with Rockwell Automation products (PLCs, SCADA, Historian), Dream Report creates compliance, performance and ad-hoc reports without a single line of code. Automatically or manually generate, publish and distribute reports when needed, to those who need them, accessible from anywhere via a web browser.

AP13 Panduit: Turning Standards into Future-Proof Solutions: All the Way to the Edge

Discussion 1 hour e-Coffee
Thursday: 14:00

Panduit shows you how to adhere to industrial IT and industrial networking standards such as CPR (Construction Product Regulation) and ISO 11801-3 (IT in industrial premises), and reference architectures such as Converged Plant-wide Ethernet (CPwE), to implement end-to-end network physical layer infrastructure solutions – from the enterprise to the edge.

AP14 Pepperl+Fuchs: More Efficiency by maintenance tasks with Mobile Computing in the hazardous area

Discussion 1 hour e-Coffee
Tuesday: 11:00

Solutions for mobile Safety and Communication enable you to digitalise easily customer applications like the maintenance tasks in the hazardous area. This unlocks new possibilities for you, increases workflow safety, efficiency and transparency – either in conventional applications or for Industry 4.0 scenarios. Additional applications like augmented and digital reality are also supported.

AP15 ProSoft Technology: Modernise Your legacy equipment to newest Rockwell Automation EtherNet/IP™ based solution!

Discussion 1 hour e-Coffee
Wednesday: 10:00

No matter what you have to modernise, we have great news: No PLC programme code is required to move away from legacy networks like DH+, RIO, DF1, Profibus, Modbus Plus... Our solutions also help to modernise leased telephone lines and low frequency, long-distance communication.

AP16 Softing: CompactLogix™ and ControlLogix® Data Exchange Solutions for SQL Database

Discussion 1 hour e-Coffee
Tuesday: 16:00

Learn how in-chassis CompactLogix and ControlLogix Data in-chassis modules provide SQL database connectivity without writing software code or having SQL knowledge. Eliminate the PC and connect PLC tags directly to SQL Databases. Monitoring, track & trace, and recipe management examples will be presented.

SESSION DESCRIPTIONS

AP17 Spectrum Controls: Universal Industrial Gateway – Connect Multiple Devices, Across Multiple Protocols, in a Single Gateway Box.

Discussion 1 hour e-Coffee
Wednesday: 12:00

Learn how a single Universal Industrial Gateway makes it easy to integrate multiple devices simultaneously, each with a different protocol, saving you time, money, and the headache of configuring multiple gateway devices. Maintain communication in systems where Industrial Ethernet and/or serial protocols coexist.

AP18 STÖBER: Applying Integrated Gear and Hollow Bore Motors into your Kinetix® 5700/6500 system

Discussion 1 hour e-Coffee
Thursday: 11:00

STÖBER will show how its Hollow Bore and Integrated Gear Motors can help to solve applications with space constraints and dynamic performance issues. Its servo geared motors integrate easily into the Allen-Bradley Kinetix 5700/6500 Servo Drives. Applications and Motion Analyzer reviewed.

AP19 Stratus: Protect on-premise software applications with a new world of industrial edge computing

Discussion 1 hour e-Coffee
Wednesday: 11:00

Learn why Rockwell Automation and its partners are turning to Stratus' new portfolio of edge computing solutions designed to simplify and protect software applications in the industrial environment. Key topics include: simple deployment and maintenance of on-premise computing infrastructure; virtualisation and protection of software applications in the event of hardware failure; and the creation of a secure environment for hosting digital assets in a connected framework.

AP20 Win-911 Software: Learn How the NEW Mobile Smartphone App Extends Visibility and Handling of Alarms and Events

Discussion 1 hour e-Coffee
Tuesday: 14:00

This session will focus on the NEW WIN-911 Mobile smartphone application and how it enhances the visibility, handling, and interactions of alarms from within FactoryTalk. WIN-911 Mobile's ground-up redesign provides a faster, easier, and more secure experience than ever before. Additional topics: Integration with FactoryTalk® Alarms & Events; Contact lists & Escalation Workflow Management; Voice, SMS, and Email Notifications.

CONTROL

CL01 Integrated Architecture® System Hardware - What's New

Discussion 1 hour Schliersee
Tuesday: 10:00; Wednesday: 10:00; Thursday: 9:00

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.

CL02 Integrated Architecture® System Software - What's New

Discussion 1 hour Schliersee
Tuesday: 15:00; Wednesday: 15:00; Thursday: 14:00

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.



CL03 Discover the Value of Scalable Compute

Lab 2 hours Tegernsee V
Wednesday: 11:00; Thursday: 8:00

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 Programme 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.

CL04 How to Propel a Digital Transformation Culture Change with Fit for Purpose Applications with Embedded Analytics

Discussion 1 hour Green
Tuesday: 11:00; Wednesday: 11:00

Attributing relevant meaning to data for key stakeholders creates a foundation for driving results and long term adoption of digital transformation. Manufacturing data is key to pinpointing opportunities for world class continuous improvement. Manufacturing data from the control and device level can be used as sole data source for embedded real-time analytics. But when control and device-level data is further combined with many other enterprise data sources, hidden potential of manufacturing assets can be unlocked. Learn about different data transformation methods in a way that relates to already known best engineering practices to create a mind set of holistic and scalable Smart Manufacturing deployment with Fit for Purpose Embedded Analytics Applications.





CL05 Reducing Waste with FactoryTalk® Analytics™ LogixAI™ Embedded Analytics

Lab 2 hours Worthsee
Monday: 16:00; Tuesday: 14:00; Wednesday: 14:00; Thursday: 13:00

With real-time system predictions, manufacturers can identify scrap potential and out of tolerance operational behavior in advance of downtime or losses. Rockwell Automation is differentiating our ControlLogix® platform by embedding automated machine learning to give automation engineers and maintenance technicians the ability to expand automation system capabilities to the next level. Learn how to create predictions with the Prediction Builder tool and further integrate predictive insights with a User-Defined Tag structure.

CL06 Studio 5000® Logix Designer® Application: Overview & Demo

Demo & Discussion 2 hours Schliersee
Wednesday: 16:00; Thursday: 15:00

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.



CL07 Studio 5000® Logix Designer® Application: Basics Lab

Lab 2 hours Tegernsee V
Monday: 14:00; Tuesday: 9:00; Wednesday: 9:00

Are you new to Logix programming or want a quick refresher on the basics? This session will provide an overview of the core capabilities offered in the Studio 5000® Logix Designer® application and highlight the importance of good design practices. Mastering these fundamentals will ensure a good design and prepare you for the advanced session.



CL08 Studio 5000® Logix Designer® Application: Advanced Lab

Lab 2 hours Tegernsee V
Monday: 16:00; Tuesday: 11:00; Thursday: 10:00

So you've got the basics, now let's take it to the next level with this advanced Logix session. This pick-and-choose lab will allow you to explore topics of interest and quickly see how capabilities add the most value to your design. By the end of this session, you will be on your way to becoming an expert.

CL09 Integrated Motion on EtherNet/IP: Solution Overview

Discussion 1 hour Green
Tuesday: 12:00; Wednesday: 12:00

This session introduces the latest additions to the Integrated Motion on EtherNet/IP product portfolio, and a preview of upcoming products and features. New products that will be highlighted include the ControlLogix® 5480 controller, 5069 Compact I/O™ platform, Kinetix® 5700 servo drives, iTRAK® intelligent transportation system, VPC line of motors and the PowerFlex® 527 AC drive.



CL11 Integrated Motion on EtherNet/IP: Basic Lab

Lab 2 hours Multifunktions
Monday: 14:00; Tuesday: 9:00; Wednesday: 9:00; Thursday: 8:00

Learn how to configure, programme and commission a CompactLogix™ 5370 controller with integrated motion on EtherNet/IP using the new Kinetix® 5500 servo drives and PowerFlex® 527 variable-frequency drives.



CL12 Integrated Motion on EtherNet/IP: Advanced Lab

Lab 2 hours Tegernsee II
Monday: 14:00; Tuesday: 9:00 and 11:00; Wednesday: 9:00 and 11:00; Thursday: 8:00 and 10:00

This hands-on lab showcases how our Integrated Architecture® system takes motion to the next level. This session will be based on the new ControlLogix™ 5580 controller, 5069 Compact I/O™ and Kinetix® 5700 servo drives and demonstrates how they combine to boost motion performance and advanced safety.

CL13 PowerFlex® Variable Frequency Drives - What's New and What's Next

Discussion 1 hour Schliersee
Tuesday: 11:00; Wednesday: 11:00; Thursday: 10:00

Learn about the new capabilities and advanced features of today's PowerFlex® drive portfolio. Get an update on the latest additions to the low and medium voltage families and how new motor control capabilities, safety options, TotalFORCE® Technology and predictive diagnostics can keep your production running.

CL15 Smart Devices: Enabled with IO-Link Technology

Discussion 1 hour Green
Tuesday: 14:00; Wednesday: 13:00

Learn how the Rockwell Automation® Smart Devices portfolio with IO-link technology can help create a comprehensive status picture of your production floor while enabling your journey to The Connected Enterprise. Gain a deeper understanding of how Smart Devices facilitate the introduction and operation for Smart Machines, resulting in greater efficiency and productivity.

SESSION DESCRIPTIONS

CL16 Connected Components Workbench™ Software - What's New

Discussion 1 hour Green
Tuesday: 10:00; Thursday: 9:00.

Learn about new features in Connected Components Workbench™ software which help to reduce design and setup time of small machine applications through the configuration and programming of multiple devices in the same project. This includes Micro800™ Controllers, PanelView™ 800 Graphic Terminals, PowerFlex® Drives, Guardmaster® safety products, E200™ Electronic Overload Relay, and Kinetix® 5100 Drives.



CL17 Connected Components Workbench™ software Lab

Lab 2 hours Pilsensee
Monday: 14:00; Tuesday: 9:00; Wednesday: 9:00; Thursday: 8:00

This lab will provide hands-on experience with basic programming of a Micro800™ controller, a PowerFlex® drive and other devices. You will learn the new features in Connected Components Workbench™ software such as similar workflows to RSLogix 500® and Studio 5000® Logix Designer application, instruction toolbar, copy/paste, preferred environment programming and how to develop and test programmes with the new Micro800™ Simulator.

CL18 FLEX 5000™ I/O: Use Standard and Safety in One Application

Demo & Discussion 1 hour Kochelsee
Wednesday: 10:00; Thursday: 14:00

Delivering value with our 5000 series I/O platform technology: Discover FLEX 5000™ I/O and how to implement an integrated control and safety system. The new discrete safety modules are TÜV certified for use in fail-safe applications with safety rating up to SIL 3, PLe and Cat 4 per single channel.

CL19 Reconfigurable 3D Sensing with Swift-E

Demo & Discussion 1 hour Kochelsee
Tuesday: 9:00; Wednesday: 15:00

The recent acquisition of Odos Imaging™ has expanded Rockwell Automation capabilities in industrial sensing. Learn how the new Swift-E reconfigurable 3D sensor complements our portfolio, enables The Connected Enterprise and helps customers implement flexible sensing to address difficult applications including completeness checking, height/proximity sensing and box measurement.

CL33 Fundamentals of EMI/Noise and installation best practices to mitigate it

Demo & Discussion 2 hours Ammersee I
Tuesday: 16:00; Wednesday: 16:00

In this session we will explain the basic physics behind High Frequency Noise, where EMI/Noise originates and how it can affect industrial installations. Further we will demonstrate through presentation and demonstration how Noise can be mitigated by using best practices.

CL35 Machine start-up made easy

Demo & Discussion 1 hour Ammersee II
Wednesday: 10:00; Thursday: 15:00

Discover how new adaptive control features minimise tuning efforts and improve performance of PowerFlex drives and Kinetix® servo applications.

Enhancements such as load observer, tracking notch filters and gain stabilisation will identify load characteristics and intelligently adjust loop gains. Changes to the machine behaviour over time will be recognised and addressed automatically.

These principles will be demonstrated live with smaller scale servo hardware.

CL36 Smart Motor Control with PowerFlex AC Drives

Demo & Discussion 1 hour Ammersee II
Tuesday: 9:00; Thursday: 8:00

The session provides an insight into new advanced features of PowerFlex 750-Series AC Drives, such as Premier Integration, Predictive Diagnostics and Integrated Safety. Each feature will be illustrated by application examples and live demonstrations.

CL37 Experience the value of Smart Machines to enable The Connected Enterprise

Demo & Discussion 2 hours Ammersee I
Tuesday: 14:00; Thursday: 13:00

This session will introduce you to the world of Smart Machines and how these support the Connected Enterprise. After this demo, you will have a clear understanding on the value of smart machines, understand the value of Integration and understand where it helps to shorten the Design & Startup Cycles.



DIGITAL ENGINEERING

DE03 Virtual Commissioning and Virtual Reality Using Emulate3D Software

Demo & Discussion 1 hour Kochelsee
Tuesday: 14:00; Wednesday: 14:00; Thursday: 13:00

Ever dreamt of being able to develop and debug control code before the piece of equipment to be automated is even built? Come to 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.



DE04 Virtual Commissioning Using Emulate3D Software: Hands-on Lab

Lab 2 hours Worthsee
Tuesday: 11:00; Wednesday: 11:00; Thursday: 10:00

Emulate3D simplifies your control logic testing. This lab will let you experience how Emulate3D can be used to develop, test, and produce robust PLC and mid-level control systems offline, before building the real system. By using a 3D model to provide realistic feedback in place of the real automated system, operator training can also become safer, cheaper, and does not disrupt existing production.



DE05 iTRAK: Design to Simulation with Emulate3D

Lab 2 hours Walchensee
Tuesday: 9:00; Wednesday: 9:00; Thursday: 8:00

Introduction to the Independent Cart Technology libraries with a hands on experience in programming iTRAK® with Studio 5000® environment. Use ACM to generate a Studio 5000® project. Configure a project to have motion on a virtual axis (simulate motion). Visualise the motion and track with a pre-configured Emulate3D environment.



DE06 MagneMotion®: Design to Simulation with Emulate3D

Lab 2 hours Walchensee
Tuesday: 11:00; Wednesday: 11:00; Thursday: 10:00

Introduction to the libraries with a hands on experience in programming a MagneMotion® system with Studio 5000® environment. Set up a Node Controller in simulation mode, use ACM to generate a Studio 5000® project. Configure stations and commands to move vehicles. Visualise the motion and track a pre-configured Emulate 3D environment.

DE07 PTC Creo: Design Faster and Smarter by Connecting Your 3D Digital Design to Your Physical Products

Demo & Discussion 1 hour Kochelsee
Tuesday: 16:00; Wednesday: 16:00; Thursday: 15:00

Now more than ever, product design and manufacturing teams are expected to create products more efficiently and cost effectively, without sacrificing innovation or quality. PTC Creo delivers the most scalable range of 3D CAD product development packages and tools in today's market. See its variety of specific features, capabilities and tools that help engineers imagine, design and create better machines.

SESSION DESCRIPTIONS

INFORMATION & ANALYTICS



IN01 Connect the ThingWorx Manufacturing Apps to Rockwell Automation® Assets Using FactoryTalk® Live Data

Lab 2 hours Bodensee I
Tuesday: 14:00; Wednesday: 9:00

You will learn how to establish ThingWorx Industrial Connectivity to new or existing FactoryTalk® Applications using the ThingWorx Manufacturing Applications. This includes configuration of FactoryTalk® Linx Gateway and the PTC OPC Aggregator to connect ThingWorx to FactoryTalk® Live Data enabling the broader analytics capabilities in the FactoryTalk® InnovationSuite.

IN02 Empower Your Connected Enterprise with FactoryTalk® InnovationSuite Powered by PTC

Demo & Discussion 1 hour Blue
Tuesday: 16:00; Wednesday: 9:00; Thursday: 9:00

Learn how you can benefit from edge-to-enterprise analytics, machine learning, industrial internet of things (IIoT) and augmented reality (AR) in a Connected Enterprise. This session will provide an overview of the suite and show the benefits of this solution to manage data across the enterprise to deliver role based, decision making information in a single system.



IN04 FactoryTalk® InnovationSuite Edge Analytics Help Deliver Information Where It's Needed Most

Lab 2 hours Bodensee I
Wednesday: 16:00; Thursday: 15:00

Making production decisions where they make the most impact for improvement is key. In this lab, learn about the use of FactoryTalk® Analytics™ Edge with DataView and ThingWorx to deliver real-time information where it's required for productivity improvements.



IN05 Data Management and Analytics Using FactoryTalk® Historian with InnovationSuite

Lab 2 hours Bodensee I
Tuesday: 16:00; Wednesday: 11:00

The utilisation of historical data is a key part of analytics and reporting. This lab will cover utilising historical data to build ad-hoc reports, trends and dashboards, as well as self-service reporting and data mash-ups for real-time manufacturing intelligence and analytics in FactoryTalk® InnovationSuite.



IN06 Building Meaningful Storyboards (Dashboards) and KPIs Using FactoryTalk® InnovationSuite

Lab 2 hours Bodensee I
Monday: 16:00; Tuesday: 9:00; Thursday: 8:00

Driving the right information to the right person in your organisation is vital to achieving the productivity improvement goals at your company. Using ThingWorx and FactoryTalk® Analytics™ DataView to build “mash-ups” of key data from anywhere in your enterprise can provide access to the right data in the views most important to your role. Learn how to simply build the right storyboards for users' specific needs.

IN08 Quality and Production Management with FactoryTalk® InnovationSuite

Demo & Discussion 1 hour Kochelsee
Wednesday: 17:00; Thursday: 16:00

Product tracking and manual data collection are key aspects to a complete quality management picture. This session will demonstrate how the Quality and Production Management Fit for Purpose Apps within FactoryTalk® InnovationSuite can provide operator and product context through a single system to improve quality, compliance and productivity.



IN09 Empowering a Digital Worker Using Augmented Reality

Lab 2 hours Bodensee I
Monday: 14:00; Tuesday: 11:00; Thursday: 10:00

See how augmented reality (AR) can be used to improve quality, safety and worker productivity, while increasing efficiencies and reducing downtime. You will realise the value AR can provide in an industrial environment via AR work instructions, maintenance, safety and training examples. How does AR integrate with analytics and MES? Learn how.

IN10 What Machine Learning Can Do for You Using FactoryTalk® InnovationSuite

Discussion 1 hour Blue
Tuesday: 17:00; Thursday: 15:00

Do you want to go beyond historicising and visualising your data? Do you have the time or resources to manually analyze millions of rows of data every time a machine breaks down or quality is poor? Learn how to use FactoryTalk® InnovationSuite to automatically drive actionable insights leveraging Machine Learning (ML) and Artificial Intelligence.

IN11 Benefit from Anomaly Detection and Predictive Maintenance

Demo & Discussion 1 hour Green
Tuesday: 9:00; Wednesday: 14:00

What is machine learning (ML)? Learn when, why and how to use our FactoryTalk® InnovationSuite Solutions, FactoryTalk® Analytics™ LogixAI™, Data Explorer, and Interactive Anomaly Detection to help users drive value with digital manufacturing. These are ML products designed for you, today's engineer, a data science citizen.



IN30 The ThingWorx platform in action

Demo & Discussion 2 hours Bodensee I
Wednesday: 14:00; Thursday: 13:00

Learn how to: Connect different data sources, Contextualise information, Synthesise information, Orchestrate and Engage with the ThingWorx platform in the context of manufacturing.

MARKET TREND & GROWTH STRATEGY

MG01 How IIoT platforms take operational systems to the next level for businesses

Discussion 1 hour Gold
Tuesday: 9:00

The Industrial Internet of Things (IIoT) revolution is well underway, and many organisations are looking to discover how they can leverage a wide range of new technologies to tackle existing business issues and improve overall operational performance. But the IIoT revolution is not just about replacing existing systems with newer technologies, it is much more than that. There is a different type of tool set for building solutions, the way you engage with clients is changing, solution development is more agile and commercially we are moving more towards an operational expenditure model. Embracing all this change can take business to the next level.

MG02 The role for the SI in the Digital Transformation / Industry 4.0 creates new opportunities

Discussion 1 hour Gold
Tuesday: 10:00

Smart industry, IIoT, Industry 4.0, digitalisation and digital transformation are trendy terms. Get some insights how this disruptive force drives the manufacturing digital transformation and in which way it creates new opportunities for System Integrators.

MG03 Accelerating Industry 4.0 with Digital Manufacturing Solutions

Discussion 1 hour Gold
Tuesday: 11:00

Gone are the days when we think of the factory as a rigid physical setting. As Industry 4.0 transforms factories from a physical to a digital setting, it is fundamentally changing the speed of factory innovation, moving to digital "clock speed". Rip and replace is no longer a viable strategy to innovate, wrap and extend is quickly becoming best practices to extract more value from existing investments. Never before has there been such disruption and yet opportunity in the factory. Leading manufacturing teams are digitally transforming to become agile enterprises, capable of quickly adapting to their changing environment - with the speed and flexibility to deliver dramatic time-to-value. In this session, you will learn how to leverage market leading Industrial Innovation and Augmented Reality solutions available in FT InnovationSuite, powered by PTC, to rapidly transform your factories into smart, connected operations.

SESSION DESCRIPTIONS

MG04 Modern & intelligent filling and closing machines realised with newest Rockwell Automation technology

Discussion 1 hour Gold
Tuesday: 12:00

This session will showcase the successful implementation at a machine builder of the latest Rockwell Automation technology. It includes the complete safety concept based on ControlLogix 5580 with CIP-safety, the network layout and the HMI Panel View+ inclusive MobileView. In this context, the added value of a certified Rockwell Automation Solution Partner is evident.

MG05 Sensia - the Oil and Gas Industry's First Fully Integrated Automation Solutions Provider

Discussion 1 hour Gold
Tuesday: 14:00

Get an overview about the new joint venture entity, which combines the Integrated Control and Information Solutions of Rockwell Automation with Schlumberger's oil and gas expertise to help customers maximise the value of their investments.

MG06 OSIsoft PI Interface to Rockwell Automation PharmaSuite

Discussion 1 hour Gold
Tuesday: 15:00

Data alone is usually not very meaningful. Helping clients to generate profitable information for their company from the ever-increasing flood of data is the main objective of our projects. Learn how to benefit from a deep integration of MES and DataHistorian.

MG07 Software selling – or how to deal with subscriptions

Discussion 1 hour Gold
Tuesday: 16:00

Learn how nowadays software is sold on the market and why subscription is becoming more beneficial. Get an overview how Rockwell Automation is approaching that trend, what is already available and the outlook for that. See what is necessary to consider for the license agreements and in case of reselling it to the customers.

MG08 Tools simplify your daily work

Discussion 1 hour Gold
Tuesday: 17:00

Rockwell Automation offers a lot of different tools to design, engineer and commission specific solutions. These tools make it very easy and simple to create excellent solutions. Learn about all the different tools and how to access them.

MG09 PlantPax DCS help to lower fossil fuel emissions

Discussion 1 hour Gold
Wednesday: 9:00

Learn how a PlantPax DCS-controlled flue gas desulphurisation solution can help lower Fossil fuel emissions to meet environmental directives.

MG10 Rockwell Automation resonant solutions used by Azov Controls during automatic control mode implementation of sintering machine #4-6 based on the PJSC Zaporozhstal Sinter Plant

Discussion 1 hour Gold
Wednesday: 10:00

See how the deployment of Allen-Bradley PACs in conjunction with FactoryTalk software has delivered remote monitoring, far more accurate production process control, intelligent energy regulation and greater plant productivity in a metalworking plant.

MG11 Beyond the classroom - digital learning in the corporate environment

Discussion 1 hour Gold
Wednesday: 11:00

Discover how to step in into the digital era of learning in the corporate environment, prepare your organisation to this transformation and understand how that change helps your employee to achieve more, faster.

MG12 Learn the Industry Language and get the right skillset with Rockwell Automation

Discussion 1 hour Gold
Wednesday: 12:00

Industry Focus is a major strategy of Rockwell Automation. Sales and Technical education are supporting that strategy and a lot of effort is devoted to this area. Learn what this means in practice and what are the benefits for our customers and partners.

MG13 Successful risk estimation and assessment in ride design

Discussion 1 hour Gold
Wednesday: 14:00

Ride design in the entertainment industry requires an intensive risk estimation and assessment. Get a complete introduction to our methodology implementing this successfully with Rockwell Automation.

MG14 Success of digitalising a discrete manufacturing in production; marketing and after sales

Discussion 1 hour Gold
Wednesday: 15:00

This session features how Bobcat Doosan has started its digital journey within Production and eMarketing and is now consider continuing its transformation in all areas including after sales. With the support of Rockwell Automation, PTC and Microsoft, Bobcat Doosan is connecting its disparate systems to start its journey to a smart and Connected Enterprise. FT InnovationSuite, powered by PTC, helps the company to connect all devices, and perform collection, contextualisation and orchestration of data and aims to improve its production with predictive maintenance analysis. Join this session to hear how Bobcat Doosan is leveraging all the company data to accelerate its business leveraging solutions from technology leaders.



MG15 Workforce of the Future - Disrupting the Talent Status Quo

Discussion 1 hour Gold
Wednesday: 16:00

Finding and keeping talent in today's changing market is a whole new world. In this session you will discover how to create the workforce of the future, onboard and retain talents in a competitive world. Learn also more about the Graduate Programme at Rockwell Automation.

MG16 Tips and Tricks - How to get the most out of our Rockwell Automation PartnerNetwork™ Portal

Discussion 1 hour Gold
Wednesday: 17:00

Get the latest information about our Partner Portal, programmes and updates from Rockwell Automation. Learn how to service your profile, make full use of co-marketing tools such as the Partner Locators and get your questions answered.

NETWORKS

NT01 Fundamentals of EtherNet/IP IIoT Network Technology

Discussion 2 hours Blue
Tuesday: 11:00; Thursday: 13:00

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).

NT04 Design Considerations for more reliable EtherNet/IP Networking

Discussion 2 hours Blue
Tuesday: 14:00; Wednesday: 14:00

This discussion will review the considerations to help you design and deploy a scalable, more reliable, safer and future-ready EtherNet/IP network infrastructure. Topics will include segmentation techniques, data prioritisation, 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 Deploy Resilient Network Architectures for The Connected Enterprise

Discussion 2 hours Blue
Wednesday: 16:00

Optimisation of your plant-wide architecture requires a network infrastructure that is scalable, reliable, safe, secure and future-ready. Learn about the Cisco and Rockwell Automation® CPwE resiliency framework and multiple resiliency protocols, including DLR, REP, VSS, StackWise, PRP and others using Stratix® and Catalyst switches. Prior attendance of the Building Converged Plantwide Ethernet Architectures session is recommended.

NT08 Selecting the Right Stratix® Switch for Your Application

Discussion 1 hour Blue
Wednesday: 12:00; Thursday: 11:00

When choosing the appropriate industrial switch for your network, we understand there is a lot to consider. We offer many options from unmanaged, to lightly managed, to fully managed switch versions. Which is best for your industrial application? Learn more about how to get the balance of functionality at the right price-point for your application, and see how the industrial switches are used within Converged Plantwide Ethernet tested and recommended network architectures.

SESSION DESCRIPTIONS



NT10 Basic Stratix® Switch and EtherNet/IP Features in Converged Plantwide Ethernet (CPwE) Architectures

Lab 2 hours Tegernsee I

Monday: 14:00; Tuesday: 9:00; Wednesday: 9:00; Thursday: 8:00

This hands-on lab will cover a variety of techniques and best practices using EtherNet/IP, including Stratix® 5700 and Stratix® 8000 hardware familiarisation. It will demonstrate how to configure Stratix® switches using the Device Manager, the AOP and controller tags in Studio 5000® and how to use the Stratix® FactoryTalk® View faceplates for diagnostics. It will also show configuration and diagnostics of a Device Level Ring (DLR) Topology.



NT11 Advanced Stratix® Switch and EtherNet/IP Features in Converged Plantwide Ethernet (CPwE) Architectures

Lab 2 hours Tegernsee I

Tuesday: 14:00; Wednesday: 14:00; Thursday: 13:00

This hands-on lab will cover some of the advanced Stratix® switch features such as Network Address Translation (NAT), VLAN segmentation, Connected Routing, and switch resiliency and security. A prior knowledge of the basic EtherNet/IP and Stratix® switch features, or attendance of the Basic Stratix® Switch and EtherNet/IP Features in Converged Plantwide Ethernet (CPwE) Architectures lab is recommended.



NT12 Improve Visibility and Diagnostics of Your Network with FactoryTalk® Network Management (FTNM) Software

Lab 2 hours Tegernsee I

Tuesday: 16:00; Wednesday: 16:00; Thursday: 15:00

In this hands on lab, learn about how FactoryTalk® Network Manager™ (FTNM) can help improve your industrial network visibility and troubleshooting procedures by providing intuitive network information for the non-IT personnel within the context of the automation system. Explore FTNM capabilities including easy discovery of plant floor assets, automatically creating a topology including DLR and controller backplane bridging, network monitoring for alarms and events which are captured for historical analysis and resolution, and support for switch configuration back up, compare and restore.

NT31 Tips and Tricks for deploying Network Address Translation (NAT) in small or complex architectures

Demo & Discussion 1 hour Ammersee I

Tuesday: 9:00; Wednesday: 9:00

In this demonstration you will witness how to configure Network Address Translation (NAT) starting from a single machine application up to a large/complex segmented network architecture. A prior understanding of general Ethernet concepts, or attendance of the Fundamentals of EtherNet/IP IIoT Network Technology session is recommended.

NT32 Benefits of Time Synchronisation (CIP Sync) in modern EtherNet/IP network architectures.

Demo & Discussion 1 hour Ammersee I

Wednesday: 11:00; Thursday 8:00

During this demonstration we will show you the importance of time synchronisation required for IO timestamping and motion applications. You will learn to recognise specific challenges and how to overcome them. This demonstration will provide you the knowledge to build robust installations/ machines and integrate them into a Converged Plantwide Ethernet Architecture.

NT33 Reduce the time to deploy, duplicate and maintain Stratix managed switches

Demo & Discussion 1 hour Ammersee I

Tuesday: 11:00; Thursday 10:00

This session will provide you tips and tricks for reducing the time to deploy, duplicate and maintain Stratix managed switches for Industrial applications. The session will cover topics such as Express Setup, switch configuration via Device Manager and Add-On Profile, Faceplates, Backup and Restore, SD card for duplicating configurations.

NT34 Improve Visibility and Diagnostics of Your Network with FactoryTalk Network Manager

Demo & Discussion 1 hour Schliersee

Tuesday: 9:00; Thursday 8:00

In this session, learn about how FactoryTalk® Network Manager™ (FTNM) can help improve your industrial network visibility and troubleshooting procedures by providing intuitive network information for the non-IT personnel within the context of the automation system. We will explore FTNM capabilities including easy discovery of plant floor assets, automatically creating a topology including DLR and controller backplane bridging, network monitoring for alarms and events which are captured for historical analysis and resolution, and support for switch configuration back up, compare and restore. This session combines presentation with an instructor-led demonstration of FactoryTalk® Network Manager™ software.



PROCESS

PR01 Overview of the PlantPax® System – What's New & What's Next

Discussion 1 hour Orange
Tuesday: 9:00; Wednesday: 9:00

In this session, you will hear a brief overview of the PlantPax® distributed control system. You will then discover the latest release of features. Each feature will be detailed in full including the benefits of the modern DCS approach compared to traditional DCS systems.

PR02 Defining and Sizing PlantPax® Systems – Best Practices and What's Coming

Demo & Discussion 1 hour Orange
Tuesday: 10:00; Wednesday: 10:00

Proper use of the PlantPax® System Estimator helps ensure your system is designed for optimal performance. In this session you will learn about the latest tools, capabilities and guidelines provided by Rockwell Automation to help you define and size the appropriate PlantPax® system architecture based on your project requirements. We will review the latest system and architecture rules, as tested in our characterisation lab. We'll also examine capabilities offered in the PlantPax® System Estimator including MCC integration and advanced sizing features to help you carry out and confirm proper sizing for new systems as well as system expansions. You will also get a preview of upcoming features that will provide you more flexibility to define and size systems for a wider range of system requirements.

PR03 Implementation of PlantPax® Systems – Best Practices and What's New

Discussion 2 hours Orange
Tuesday: 11:00; Wednesday: 11:00

Engineering efficiency and consistent delivery are key topics for implementing any DCS successfully. Learn how to bring the Rockwell Automation® Modern DCS to the market faster using the latest capabilities and guidelines for implementing a system. This session will cover tools such as bulk-editing of library code and control strategies of common process functions. We will also cover system-wide functionality such as the integration of alarming and the ability to display information with contextual relevance.

PR04 Introduction to the Rockwell Automation® Library of Process Objects

Demo & Discussion 1 hour Orange
Tuesday: 14:00; Thursday: 13:00

The Rockwell Automation® Library of Process Objects helps you quickly develop process solutions with rich functionality and known performance. In this session, we'll demonstrate how to build a control strategy using Library objects. We'll present the Library objects and their functions within a typical control system, highlighting features for operators, maintainers and engineers. Walk away understanding the value of using the Library to develop process solutions.

PR05 Advanced Functionality and New Features of the Rockwell Automation® Library of Process Objects

Demo & Discussion 1 hour Orange
Tuesday: 15:00; Thursday: 14:00

In this session, you will learn what's new in the latest release of the Rockwell Automation® Library of Process Objects. We'll demonstrate new features and advanced capabilities of the Library as well as tools that simplify and automate migration from previous Library releases.

PR06 Administration and Maintenance of PlantPax® Systems – Best Practices and What's New

Discussion 1 hour Orange
Wednesday: 14:00; Thursday: 8:00

Are you looking for guidance on keeping your system current and healthy? Learn the latest guidelines and methods for the administration and maintenance of the PlantPax® System. See new tools being provided this year and get a preview of what's coming in future releases.

PR07 Deploy and Manage a Virtualised PlantPax® System

Demo & Discussion 1 hour Orange
Wednesday: 15:00; Thursday: 9:00

Virtualisation increases the life of your control system, eases maintenance and improves security. The ability to deploy a virtualised PlantPax® system is increasingly important as we look for ways to optimise computing resources and increase system uptime. In this session, you will learn how to deploy and manage a complete system using the PlantPax® Virtual Image Templates, VMware vSphere and the proper Microsoft and Rockwell Automation licenses. We will review available tools and documentation as we deploy a demo system and address common concerns. This session is designed to help you consider a virtual architecture as you approach your next control system deployment.

PR08 Securing and Connecting Your PlantPax® Systems to the Enterprise: 62443-3-3 Best Practices

Discussion 1 hour Orange
Wednesday: 16:00; Thursday: 10:00

Integrating your PlantPax® systems with your enterprise enables better visibility and collaboration that can help improve your bottom line. In this session, you will learn best practices to make this integration happen, including standard reference architectures and the latest in security and application guidelines. Discover how these capabilities align with The Connected Enterprise, as well as implications of establishing an Enterprise data infrastructure and/or cloud-based applications.

SESSION DESCRIPTIONS

PR09 How to Implement an Effective Operator Workstation

Demo & Discussion 2 hours Gold
Thursday: 10:00

The typical process industry operator must interact with a variety of interfaces such as process displays, trends, video, and alarm lists on their workstations. This session will provide an approach for applying the ANSI/ISA 101 standard and concepts from VZ02 session (VZ02 - How to Improve Plant Operations through Better HMI Graphics) to design workstations, with a focus on display design and hierarchy (Level 1, 2, 3 and 4 displays). Learn how to design an effective PlantPax® operator interface to assure your operators are controlling your processes safely while meeting production and quality targets.

PR11 Following the ISA-18.2 Lifecycle to Improved Alarm System Performance

Demo & Discussion 1 hour Orange
Tuesday: 17:00; Thursday: 16:00

Following the ISA-18.2 Alarm Management Lifecycle is a path to improved alarm system performance. Proper alarm management will minimise nuisance alarms, alarm overload, alarm floods, and will ensure alarms are prioritised to indicate importance. This session will highlight key considerations for PlantPax® users when designing and implementing an effective alarm management programme. While reviewing each portion of the lifecycle, users will be presented with guidance and demonstrations on how to leverage PlantPax® alarm system features as well as exida's SILAlarm tool. Topics that will be addressed include using alarm rationalisation results to present alarm response procedures to the operator, alarm suppression, alarm shelving and flood reduction.

PR12 Batch Management: Overview and What's New and What's Next

Discussion 1 hour Orange
Wednesday: 17:00; Thursday: 11:00

The Rockwell Automation modern batch solution leads to new productivity gains through ground breaking new products. This session explores the features and capabilities of the latest release of FactoryTalk® Batch. It also provides an overview of new offerings such as controller-based sequencing with the SequenceManager™ solution and new mobility capabilities. The session will also provide a preview of upcoming features and capabilities of the Rockwell Automation portfolio of batch and sequencing products.



PR13 Controller-based Batching Using SequenceManager™

Lab 2 hours Pilsensee
Tuesday: 11:00; Wednesday: 11:00; Thursday: 10:00

Modern batch systems must account for the growing need for architecture flexibility, true distribution of control, and scalable solutions. SequenceManager™ provides batch sequencing in the Logix family of controllers, adding power capability closer to the process, and opening new possibilities for skids, off network systems, and single unit control. This session will allow you to configure and run SequenceManager™ in Logix Designer application, ViewSE and deploy batch reports.



PR14 Distributed Batch: Deploying Controller-based Sequences with FactoryTalk® Batch

Lab 2 hours Pilsensee
Tuesday: 16:00; Wednesday: 16:00; Thursday: 15:00

Modern batch systems must provide flexible architecture and distribution of batch execution. SequenceManager™ opens new possibilities for skids, off network systems, and single unit control. Learn how to integrate these systems to a plant-wide batch system by utilising SequenceManager™ sequences in the controller with FactoryTalk® Batch v13.



PR15 PlantPax® Process Application Development

Lab 2 hours Pilsensee
Tuesday: 14:00; Wednesday: 14:00; Thursday: 13:00

In this hands-on lab, we will focus on control and visualisation aspects of the PlantPax® DCS. Here you will develop a process application using PlantPax® Process Strategies. Once you have completed the setup of your controller and HMI, you will continue to build out your application by adding and configuring controller code and FactoryTalk® View SE graphical elements from the latest release of the Rockwell Automation® Library of Process Objects. Come and learn about how PlantPax® leverages Studio 5000® Architect®, Logix Designer application features such as the Logical Organiser and Programme Parameters, and FactoryTalk® View SE features such as Alarm grouping and Alarm Roll-up.



PR20 I/O Solutions: Apply High Availability, Functional Safety & Intrinsic Safety in High Performance Process Applications

Discussion 1 hour Orange
Tuesday: 16:00; Thursday: 15:00

Learn the complementary capabilities of FLEX 5000™ I/O, ControlLogix® CIP Safety I/O, 1715 Redundant I/O and 1719 Ex I/O. Leverage these I/O solutions to build a smart, productive and flexible industrial control system for extreme environments, hazardous zones and functional safety applications.



SAFETY & SECURITY

SS01 An update on Safety standards

Discussion 1 hour Blue

Tuesday: 10:00; Thursday: 8:00

This session will provide an update on changes to standards used to implement machinery safety.

SS08 What's New in Safety?

Demo & Discussion 1 hour Ammersee II

Tuesday: 17:00; Wednesday: 17:00

This session will review the new products added to the Safety portfolio during the year and those coming in 2020



SS10 Developing Advanced Safety Applications Using the Allen-Bradley® GuardLogix® Integrated Safety Controller Platform

Lab 2 hours Tegernsee II

Monday: 16:00; Tuesday: 14:00 and 16:00; Wednesday: 14:00 and 16:00; Thursday: 13:00 and 15:00

In this lab, you'll learn how to use Allen-Bradley® Integrated Safety Systems to support advanced level safety functions including Safe Limited Speed – using a single controller and programming environment for safety, discrete, motion, and drive functions, and with secure, seamless connectivity to plant-wide information systems.



SS13 Smart Safety Systems: Reducing Costs, Downtime and Injuries

Lab 2 hours Worthsee

Monday: 14:00; Tuesday: 9:00; Wednesday: 9:00; Thursday: 8:00

Intelligent devices help improve insight into machinery operation and worker behaviors, while providing feedback on system operation to reduce downtime. In this lab, you'll learn programming of safety devices, design requirements for integrating additional CIP safety enabled devices, and the impact to the safety integrity of the system.

SS16 Cyber Security – Why? And Where Do I Start?

Discussion 1 hour Schliersee

Wednesday: 12:00; Thursday: 11:00

Securing The Connected Enterprise requires a holistic defense-in-depth approach. This discussion will address various system level scenarios with consideration to the attack continuum: prevent, detect, and respond. Attendees will better understand how to best utilise the breadth of solutions offered by Rockwell Automation and our partners. In addition, learn about developing standards and regulations around security and the approach Rockwell Automation uses to build security into our products.



SS17 Introduction to Network Security Lab

Lab 2 hours Tegernsee I

Monday: 16:00; Tuesday: 11:00; Wednesday: 11:00; Thursday: 10:00

A resilient industrial network security system is essential to ensure that data is protected and that proper access is only given to the right people at the right time. In this session, you will learn the basic security functions you can use to start optimising security in your plant network. See how security features in managed switches, like port security, access control lists, and port thresholds, as well as specific capabilities of the Stratix® 5950 Security appliance with deep packet inspection, can help mitigate potential security risks.

SS18 Deploy Secure Network Architectures for The Connected Enterprise

Discussion 2 hours Green

Tuesday: 15:00; Wednesday: 15:00; Thursday: 14:00

Protecting industrial control and automation system (IACS) assets requires a holistic defense-in-depth security approach that addresses internal and external security threats. This discussion reviews the security design and implementation considerations within the Cisco and Rockwell Automation® CPwE reference architectures. Learn about the architectural security framework, identity services, IDMZ, Stratix® 5950 and Cisco Adaptive Security Appliance (ASA) firewall solutions to help you improve the availability, integrity and confidentiality of your network architecture. Prior attendance of the Building Converged Plantwide Ethernet Architectures session is recommended.



SS19 Introduction to the Design and Implementation of FactoryTalk® Security in a Control System

Lab 2 hours Tegernsee V

Wednesday: 14:00; Thursday 15:00

Learn how to design and build a FactoryTalk® Security infrastructure to secure and manage access and resources in your control system. In this lab you will learn how to: configure FactoryTalk® Security for the first time after a default installation; configure users and groups, system policies, and secured actions in the FactoryTalk® Administration Console to manage access control and permissions; and have an opportunity to apply basic security restrictions to Studio 5000® Logix Designer® projects. Topics include introduction to FactoryTalk® Directory, user/group management, setting security policies in the FactoryTalk® Directory, and understanding single sign-on.

SESSION DESCRIPTIONS



SS20 Advanced Design, Management and Implementation of FactoryTalk® Security in a Control System

Lab 2 hours Tegernsee V
Tuesday: 16:00; Wednesday: 16:00

In this lab, you will take an existing FactoryTalk® Security configuration and extend that functionality to implement new roles and responsibilities within distributed FactoryTalk® solutions. Pick common security scenarios, explore solutions to and make decisions on how to proceed to protect the distributed control system and intellectual property contained in Studio 5000® Logix Designer®, and FactoryTalk® View. Topics include multiple methods for securing Studio 5000® Logix Designer® projects and content, Guest Access, Temporary User Access and Privilege Escalation, and FactoryTalk® View SE Runtime Security.

SS22 CIP Security: Improving Control System Defense-in-Depth Security

Discussion 1 hour Blue
Tuesday: 9:00 Thursday: 16:00

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 enables devices to protect themselves from malicious attacks focusing on authenticity, integrity and confidentiality.



SS23 CIP Security Improves Control System Defense-in-Depth Security

Lab 2 hours Worthsee
Tuesday: 16:00; Wednesday: 16:00

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 lab provides hands-on examples of how CIP Security helps enables devices to protect themselves from malicious attacks focusing on authenticity, integrity and confidentiality.

SS24 Security for Thin Client Deployments

Discussion 1 hour Blue
Wednesday: 11:00; Thursday: 10:00

Thin client architectures can dramatically 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, centralising access control, and simplifying lifecycle support.

SS26 Logix Intellectual Property Protection for Machine Builders and End Users

Demo & Discussion 1 hour Kochelsee
Tuesday: 11:00; Wednesday: 11:00

Protecting the intellectual property that your company develops is critical to your competitive advantage. Studio 5000® Logix Designer® provides access control for your source code as well as control over the deployment of that code. This session includes a demonstration of License Based Content Protection and how it can help protect your investments.

SS30 Developing Safety Motion Applications by leveraging the Kinetix® 5700 Advanced Safety Functions

Demo & Discussion 1 hour Ammersee II
Tuesday: 11:00; Thursday: 9:00;

In this session we will explain the K5700-ERS4 advanced safety functions and how to integrated them. We will show you an efficient configuration and programming approach to achieve safety in motion application.

SS31 Save money being safer

Demo & Discussion 1 hour Ammersee II
Wednesday: 9:00; Thursday: 11:00

When defining the components to make our machines safe, we may consider a hardwired or a networked solution based on the requirements but also on the costs. This session will show the positive impact a networked solution can have by reducing the total cost and improving the machine performance.



SYSTEM

SY01 Studio 5000® Architect® Introduction and Demonstration

Demo & Discussion 1 hour Green
Wednesday: 9:00; Thursday: 8:00

Learn about Studio 5000® Architect®, the system design canvas within the Studio 5000® environment. The session will cover what Architect is, its future development, and how you can save time performing tasks with multiple controllers, HMI devices, and applications throughout an automation project lifecycle.



SY02 Integrated Architecture® Tools: Integrated Architecture® Builder, Motion Analyzer and ProposalWorks™: Basic Lab

Lab 2 hours Multifunktions
Tuesday: 14:00; Wednesday: 14:00; Thursday: 13:00

In this lab you will develop basic competency in using Integrated Architecture® Builder (IAB), Motion Analyzer (MA) and ProposalWorks™ (PW). IAB will be used to validate the controller selection and EtherNet/IP performance. Next, MA will correctly size servo motors and drive. Finally, PW will be used to combine the bill of materials of IAB and MA selections, add additional products, creating a final report that includes pricing, product certifications and other supplemental materials.

SY04 Studio 5000® Application Code Manager: Introduction and Demonstration

Demo & Discussion 1 hour Kochelsee
Tuesday: 12:00; Wednesday: 12:00; Thursday: 11:00.

This session combines presentation with an instructor-led demonstration of Application Code Manager (ACM) capability. This session will cover 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 setpoints, 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.



SY05 Studio 5000® Application Code Manager Project Execution and Library Management: Lab

Lab 2 hours Bodensee II
Tuesday: 9:00; Wednesday: 9:00; Thursday: 8:00

Quickly build your automation projects using the Rockwell Automation® Application Code Manager. This lab will provide you the opportunity to create project content by selecting library objects (control modules, equipment's modules, etc.) and providing configuration data, such as object name and description (i.e. V100, Tank 100 Inlet Valve), equipment setpoints, control interlocks, conditional inclusion (i.e. Has Diagnostics), etc. Once all the configuration, not programming, is provided you will initiate a project build (ACD file) that you will be able to download to a controller to run. In addition, this lab will provide you the opportunity to create a new library object that includes Logix, FactoryTalk® View SE, FactoryTalk® Historian and FactoryTalk® Alarms and Event content. Work with ACM Library Designer and Library Object Manager to build and publish library objects into the ACM database. Create highly parameterised library objects for modular reuse and flexibility.

SY08 Developing Information Ready Applications Using Smart Tags and Rockwell Automation® Edge Devices

Demo & Discussion 1 hour Kochelsee
Tuesday: 10:00; Thursday: 9:00

Learn how Rockwell Automation provides information integration using our new Edge offering coupled with Smart Tags in Logix Controllers. See information modeled, logged, and discovered by our Edge Gateways. Ultimately RAPID Line Control surfaces, aggregates, displays, and analyses the information.

SY09 ThinManager® Architecture and Best Practices: Discussion

Discussion 1 hour Ammersee II
Wednesday: 14:00; Thursday: 10:00

The ThinManager® platform greatly simplifies content delivery and device management, but architecting such a system does not have to be challenging. This session will present ThinManager® architectures and discuss best practices to assist you with your ThinManager® deployments in The Connected Enterprise. Note: ThinManager® Delivering and Managing The Connected Enterprise: Overview is a prerequisite for this session.

SESSION DESCRIPTIONS



SY11 ThinManager® Experience the Platform's Power and Simplicity: Basic Lab

Lab 2 hours Tegernsee IV
Monday: 14:00; Tuesday: 9:00 and 14:00; Wednesday: 9:00 and 14:00;
Thursday: 8:00 and 13:00

This lab introduces the primary building blocks of the ThinManager® platform while demonstrating its ease of use and flexible content delivery options within a FactoryTalk® environment. This session includes hands on training with the latest Rockwell Automation® industrial grade box thin client, the VersaView® 5200.



SY12 ThinManager® from New Server to Completed Deployment: Advanced Lab

Lab 2 hours Tegernsee IV
Monday: 16:00; Tuesday: 11:00 and 16:00; Wednesday: 11:00 and 16:00;
Thursday: 10:00 and 15:00

This lab provides a chance to set up and configure both core components and advanced features of ThinManager®. Gain access to a fresh Windows Server 2016 build to deploy Remote Desktop Services and ThinManager®. Once set up, you will have the option to choose from a variety of advanced features sections, including: redundancy, load-balancing, firewall permissions, advanced security, Active X, Virtual Screens, geofencing and more!

SY13 ControlFLASH Plus™ - Overview and Demo

Demo & Discussion 1 hour Kochelsee
Tuesday: 15:00; Thursday: 10:00

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 products' lifecycles. Whether you are an OEM, SI or end-user, you will find this session beneficial to you. Lastly, learn about planned enhancements for release V3.00.00 and tell us what enhancements you would like to see in the future.



SY15 Getting Started with FactoryTalk® AssetCentre

Lab 2 hours Tegernsee III
Tuesday: 16:00

Learn about the core functionality of FactoryTalk® AssetCentre in a hands-on lab environment. You will learn how to interact with the FactoryTalk® AssetCentre application, gain an understanding of the product's basic functionality, as well as how to design the foundation of a successful asset management system.



SY16 Become a Superhero with FactoryTalk® AssetCentre's Advanced System Features

Lab 2 hours Tegernsee III
Wednesday: 9:00; Thursday: 15:00

Learn to use FactoryTalk® AssetCentre's advanced system features to become an asset management superhero! This hands-on experience will show you how to keep your facility update to date using Asset Inventory Agent and lifecycle management which now includes I/O modules, how the scripting functionality added to the Custom Device Plug-in enables you to back up and compare third party device configurations, managing FactoryTalk® View Site Edition applications as an asset with FactoryTalk® AssetCentre, designing a security model, and configuration and implementation of a disaster recovery strategy.

SY17 Integrated Condition Monitoring: Dynamix™ Basics and Demonstration

Demo & Discussion 1 hour Schliersee
Tuesday: 14:00; Thursday: 13:00

This session will present and demonstrate the Dynamix™ 1444 Series Machine Condition Monitoring System. Learn what the system can do, how it does it, and how you can apply it to real world applications including machinery protection, quality and predictive maintenance. Meet the specialists and learn what we mean by Integrated Condition Monitoring.

SY18 Communications Using FactoryTalk® Linx, OPC UA and KEPServer Enterprise: New Capability Overview and Demonstration

Demo & Discussion 2 hours Ammersee I
Wednesday: 14:00

Combined presentation and instructor-led demonstrations of FactoryTalk® Linx, OPC connectivity and KEPServer Enterprise software to provide visualisation and information software access to Logix 5000™ controllers and other control devices. Topics covered include an overview of connectivity software portfolio, methods to securely access various types of control system information and OPC UA communications.



SY19 Using FactoryTalk® Linx, OPC UA and KEPServer Enterprise Comms with FactoryTalk® and Third-party Software

Lab 2 hours Tegernsee V
Tuesday: 14:00; Thursday: 13:00

Brief introduction to new capabilities combined with hands-on lab working directly with FactoryTalk® Linx and KEPServer Enterprise software to access various forms of control system data. Experience new capabilities to increase your productivity, secure access, enhance systems availability and work with OPC UA interfaces.



SY20 Independent Cart Technology Solutions

Discussion 1 hour Ammersee II
Tuesday: 16:00; Wednesday: 16:00

Independent Cart Technology (ICT) is up-ending traditional motion control paradigms and Rockwell Automation is leading the industry with this new breed of motion control systems. Learn what's new in ICT and how these solutions will be cornerstones in the factory of the future allowing unprecedented flexibility and speed on machines, without increasing machine size.

SY21 Kinetix® iTRAK® Small Frame: From Zero to Motion in One Hour

Demo & Discussion 1 hour Ammersee II
Tuesday: 14:00; Thursday: 13:00

Are you familiar with iTRAK® intelligent track systems? Are you familiar with Kinetix® motion control? The great news is...the next release of iTRAK® has the power of Kinetix®! This premium session will give you an insight on how to create a project in the Studio 5000® environment and control an iTRAK® even before it is released. From zero to motion.

SY22 The Future of Software Purchase and Maintenance

Discussion 1 hour Gold
Thursday: 13:00

Learn how a modern software purchasing experience can help your organisation mitigate risk and maximise flexibility. Key topics include: simplified activations, user visibility, customised software bundles, and streamlined support.



SY30 MagneMotion® Independent Cart Technology: Hands-on Experience

Discussion 2 hours Walchensee
Monday: 14:00; Tuesday: 14:00; Wednesday: 14:00; Thursday: 13:00

This session will go beyond the value of Independent Cart Technology and offer a chance for a self-guided demonstration and programming of a MagneMover® Lite in the Studio 5000® environment.

SY31 Advanced network safety solutions using Kinetix® and PowerFlex drives

Discussion 1 hour Ammersee II
Tuesday: 12:00; Wednesday: 12:00

This session will present the advanced network safety solutions on Kinetix® 5700 Servo Drives and PowerFlex 755 AC Drives. Safety functions such as safe position, safe limited speed and safe operating stop will be demonstrated.

SY32 FactoryTalk ThinManager - The Future of Industrial Mobility

Discussion 1 hour Ammersee I
Tuesday: 10:00; Wednesday: 10:00; Thursday: 9:00

We are very excited about bringing Automated Control Products (ACP) into the Rockwell Automation family. As proven in the market, ACP makes PlantPAx Systems better by providing centralised thin client, remote desktop and server management software that improves customer productivity and brings monitoring and mobility solutions to the plant floor. They are the ketchup to our hamburger, making our solution more valuable to our customers.



SY33 Simulation to optimise MagneMotion® and iTRAK® system design

Lab 1 hour Walchensee
Monday: 16:00; Tuesday: 16:00; Wednesday: 16:00; Thursday: 15:00

MagneMotion® and iTRAK® technologies have introduced a new flexible way of handling production in industry. With flexibility, usually comes complexity. This session shows you how to develop a system without having the physical MagneMotion® or iTRAK® system. This powerful tool of visualisation can help you to solve problems even before you start commissioning your system.

SESSION DESCRIPTIONS

VISUALISATION & COLLABORATION

VZ01 Visualisation at Rockwell Automation - What's New and What's Next

Demo & Discussion 1 hour Ammersee II
Tuesday: 15:00; Wednesday: 15:00; Thursday: 14:00

Discover the newly released products and features in visualisation 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.

VZ02 How to Improve Plant Operations through Better HMI Graphics

Demo & Discussion 1 hour Schliersee
Tuesday: 12:00; Wednesday: 14:00

Plant operators make decisions every day which 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.



VZ03 Designing Machine-level HMI with PanelView™ 5000 and Studio 5000® View Designer®: Basic Lab

Lab 2 hours Tegernsee III
Monday: 14:00; Tuesday: 9:00; Wednesday: 11:00; Thursday: 8:00

Learn how easy it is to create, download, and run a PanelView™ 5000 graphic terminal project using Studio 5000® View Designer® software. This introductory lab covers tasks such as setting up a project, creating screens, animating graphic elements, setting up navigation, setting up basic security, taking advantage of pre-defined project content, testing a project, and downloading to a terminal.



VZ04 Designing Machine-level HMI with PanelView™ 5000 and Studio 5000® View Designer®: Advanced Lab

Lab 2 hours Tegernsee III
Monday: 16:00; Tuesday: 11:00; Wednesday: 14:00; Thursday: 10:00

Learn how to take advantage of the more powerful, advanced capabilities of the PanelView™ 5000 terminals and Studio 5000® View Designer® software. Topics you'll explore include creating add-on graphics, using custom press/release actions, customising pre-defined project content, using advanced features of state tables, configuring custom element-based security, and showing content in multiple languages. You will also learn about recent features such as data logging and historical trending, remote access with VNC, and viewing PDF documents. Suggested prerequisite: VZ03 - Designing Machine-level HMI with PanelView™ 5000 and Studio 5000® View Designer®: Basic Lab

VZ05 Designing Machine-level HMI with Studio 5000® View Designer® Demonstration

Demo & Discussion 1 hour Kochelsee
Tuesday: 17:00; Wednesday: 9:00

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.

VZ06 Best Practices for Migrating Advanced PanelView™ Plus Applications to PanelView™ 5000 Using Studio 5000® View Designer®

Demo & Discussion 1 hour Schliersee
Tuesday: 17:00; Wednesday: 9:00

This session will show you best practices for re-using PanelView™ Plus 6/7 application content when creating PanelView™ 5000 applications including showing advanced features like recipe handling, screen control from Logix controllers, graphics animations and performing multiple actions with one touch action.



VZ08 Distributed HMI with FactoryTalk® View Site Edition: Basic Lab

Lab 2 hours Bodensee II
Tuesday: 11:00; Thursday: 10:00

If you are new to FactoryTalk® View Site Edition, or just need a refresher on the basics, this hands-on lab allows you to learn about the basic capabilities and features of the FactoryTalk® View Site Edition application. Topics include creating an application, working with displays, working with tags, testing and running the application, applying graphic animations and creating trends.



VZ10 FactoryTalk® View SE: Redundancy, Configuration and Maintenance

Lab 2 hours Bodensee II
Tuesday: 14:00; Thursday: 13:00

If you need to configure and maintain a distributed FactoryTalk® View Site Edition system, this hands-on lab is where you can learn and practice your skills. Topics include configuring redundancy using FactoryTalk® View SE, how components of the architecture fit together, and capabilities available to maintain and troubleshoot the system. This session is geared toward users with a basic understanding of the FactoryTalk® View Site Edition application.





VZ11 Implementing FactoryTalk® Alarms and Events

Lab 2 hours Tegernsee III
Tuesday: 14:00; Wednesday 16:00; Thursday: 13:00

This hands-on lab focuses on how to best implement and configure FactoryTalk® Alarms and Events with FactoryTalk® View Site Edition and Logix controllers. In this session, you will learn how to implement the TrendPro trending control in FactoryTalk® View Site Edition to analyze and rationalise alarm data with control data in their system. This lab also shows how users can leverage the notification tactics and strategies of WIN-911 to bring alarm data from a controller to the information layer.



VZ12 Machine-level HMI with FactoryTalk® View Machine Edition Application: Basic Lab

Lab 2 hours Bodensee II
Tuesday: 16:00; Thursday: 14:00

If you are new to building FactoryTalk® View Machine Edition applications for PanelView™ Plus, or just need a refresher on the basics, this hands-on lab allows you to learn about the basic capabilities and features of the FactoryTalk® Machine Edition application. Topics include creating an application, working with displays, understanding the basics of global objects, and working with tags, using tag placeholders, testing and running the application, applying graphic animations and using language switching. See how features like search and replace tag and text, tag cross-reference and other design-time enhancements can help you to get more work done in less time.



VZ13 Machine-level HMI including 21 CFR Part 11 with FactoryTalk® View Machine Edition: Advanced Lab

Lab 2 hours Bodensee II
Wednesday: 16:00; Thursday: 15:00

If you are experienced with building FactoryTalk® View Machine Edition applications for PanelView™ Plus, this session allows you to pick-and-choose from subjects related to more advanced capabilities. Topics include: trending, recipes, data logging, using process faceplates and global objects, working with Logix extended tag properties, using Logix extended tag properties with runtime language switching, applying ActiveX controls in an application, creating a context-sensitive alarm system, and designing for 21 CFR Part 11.



VZ15 Troubleshooting with Analytics for Devices and FactoryTalk® TeamONE™ Hands-On Experience

Lab 2 hours Multifunktions
Tuesday: 11:00; Wednesday 11:00; Thursday: 10:00

Industrial manufacturers are pressured by downtime challenges and finding better ways to troubleshoot reliability issues proactively. Embedding automated diagnostics and notifications is a way to achieve new practices to transform from reactive mode into proactive mode. Learn how new automated intelligence can lead to recognising instantaneous insights. Expedite identifications of where device problems exist, so you can resolve them before they cause downtime.



#ROKLive

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