

20th April 2010, Manchester

| Room | Code | Time | Title | Presenter | Description |
|------|-------|---------------|---|--|---|
| 1 | MN101 | 09:15 - 10:30 | Using Software Tools to create and exploit operation intelligence | Hans Nilsson & Brett Willetts | Discover how Enterprise Manufacturing Intelligence can be used to drive performance in your operation. This session focuses on how to exploit data from your plant floor. We take a look at data historian tools (FactoryTalk Historian), productivity dashboards (FactoryTalk VantagePoint), right up to complex Manufacturing Enterprise Systems. Come and experience for yourself how FactoryTalk® Integrated Production & Performance Suite can help you to strengthen your competitive advantage. |
| 1 | MN102 | 10:45 - 12:00 | Effective Asset Management through the use of remote monitoring techniques and capabilities | Mark Crawford | Gain knowledge of how industry trends around remote asset management, new monitoring technologies and security legislation are developing to your advantage. This includes an overview of various innovative, outsourced, remote maintenance solutions, covering the management of remote rotating equipment. You will discover how low-cost wireless condition monitoring solutions have been implemented to greatly improve plant availability and virtually eliminate critical failures. |
| 1 | MN103 | 13:00 - 15:00 | Practical strategies to improve your Energy Management | Jonathan Smith | Understand what "sustainability" means in the real world of business. This four-part session opens with an external view as to what is driving energy costs, the risks in supply and why it makes good economic and business sense to invest in energy reduction measures. It then moves on to cover how modern power monitoring systems work, how they can be integrated into plant systems, the reporting and information data available and how these factors enable energy reduction measures to be implemented. You will be shown how and why addressing high power applications can bring the fastest savings in energy coupled with the shortest payback periods, including examples of real applications and the savings achieved and a guide to identifying potential high power areas for saving energy. The session concludes by highlighting the need for an integrated approach to sustainability. Reducing the environmental impact of a business is not just to cleanse the corporate conscience, it can provide genuine economy in the use of resources and deliver tangible value through improved equity. |
| 1 | MN104 | 15:15 - 17:15 | Intelligent Motor Control strategies to improve operational performance | Ian Harwood | In this session you will learn why the Intelligent Motor Control solution is being increasingly adopted across a range of industries to provide reduced total cost of ownership, increased plant availability and better control of energy. You will see for yourself how Premier Integration greatly reduces the engineering time for more complex devices, such as variable speed drives and soft starts and enables plant-wide visibility within Rockwell Integrated Architecture. |
| 2 | MN201 | 09:15 - 10:30 | Integrated Architecture - Core system benefits | Richard Sturt, Glenn Bates & Dave Withenshaw | You will experience the benefits of using Rockwell Automation's Integrated Architecture. Specific focus is on how Logix & FTViewSE Visualisation integration can reduce design time in integrated applications. We then look at how we can reduce complexity and increase standardisation through the use of Add-on instructions & Faceplates, before covering revision management and application code security using FT Asset Centre. Explore new methods within the Logix environment for improving alarm handling, which deliver better response for critical system alarms; before concluding with a look at how Premier integration of PowerFlex drives can reduce engineering and commissioning time for applications requiring variable speed drives. |
| 2 | MN202 | 10:45 - 12:00 | Process Automation Solutions Part I - Intelligent instruments integration and plant asset management | Richard Sturt & Stuart Forrest | Discover how the latest developments in Rockwell Automation's Process Automation System, Plant PAX can maximise productivity through intelligent instruments integration and Plant Asset Management. This session looks at the benefits of Intelligent Instruments and the tools available to easily integrate with Logix controllers, including integration on Profibus, HART and Foundation Fieldbus. Standard instrument function blocks and faceplates that simplify engineering will be demonstrated as well as a look at Endress+Hauser Fieldcare and the instrument configuration option in FactoryTalk AssetCentre. |
| 2 | MN203 | 13:00 - 14:00 | Pavilion Technology – Model Predictive Control | Derek Horn | You will also see the tools available to ensure that a process plant continues to operate effectively throughout its life. Pavilion Technologies (A Rockwell Automation Company) Model Predictive Control (MPC) technology is an intelligence layer on top of basic automation systems that continuously drives the plant to achieve multiple business objectives – cost reductions, decreased emissions, consistent quality and production increases – every production minute. It continuously assesses current and predicted operational data, compares them to desired results and computes new control targets to reduce in-process variability and improve process performance. This session will look at typical applications for Model Predictive Control and the production gains that can be realised. |
| 2 | MN204 | 14:00 - 15:00 | Manufacturing/IT Convergence - What does it mean for my operation? | Mark Daniels & Guy Denis | You will discover how the combination of Ethernet solutions from Rockwell Automation and CISCO can provide an infrastructure capable of delivering secure data around your enterprise. We'll show you how the Stratix 8000 Switch technology allows control systems to share the same Ethernet infrastructure as the back Office. You will then experience methods for optimising remote access to minimise OEM support costs and maximise operation uptime. Then we'll show you how to integrate functions such as CCTV and IP phones into the industrial Ethernet infrastructure. Finally we'll demonstrate how we can address security concerns arising from using Ethernet in this way. |
| 2 | MN205 | 15:15 - 16:15 | Using Motion Control Solutions to make efficiency gains | Andrew Smith | Experience how the latest design tools from Rockwell Automation will improve your machine performance and efficiency. Focusing on Motion Analyser software we show how the 3D modelling, communication with Logix5000 and integration with SolidWorks can deliver better machine performance and a more energy efficient solution. The session will include a live demo of active features through connection with Kinetix / Logix Products to illustrate benefits to the design & build process. |
| 2 | MN206 | 16:15 - 17:15 | Safety Solutions to assist with implementation of ISO 13849-1 | David Reade Derek Jones | The concept of functional safety will change the behaviour of users and designers of automation systems, and why the publication of ISO 13849-1 has led to growing interest in performance levels (PL) and Safety Integrity Levels (SIL). You will learn how to use SISTEMA (a software tool for the evaluation of applications to ISO 13849-1) and understand the structure of the safety related control components and designated architectures. |
| 4 | MN301 | 13:00 - 17:15 | Connected Components Solutions - Optimised to meet your needs for simple and smart machine control | Melvin Jones | This hands-on session works through the network connection of HMIs, AC drives and even discrete components within a machine control system, using a small but expandable, low-cost PLC. You will be shown how you can dynamically monitor and display values (such as motor running-current) and send alarm or update messages from in-built web-servers. You will learn how to add real, useable advantages to your machine or process through the increased availability of networks and advanced features, which are currently available on standard components. |

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| 5 | MN302 | 09:15 - 12:00 | Manufacturing/IT Convergence - The next generation Ethernet switch | Mike Loughran & Andy Bullock | Experience the power of the Ethernet switch which provides seamless integration between corporate and manufacturing networks. You will manage a switch from within RSLogix 5000, see how diagnostic information from the network can be displayed quickly on an HMI and also understand how easily the Stratix 8000 family integrates into your corporate network software tools. You will also see a demonstration of CCTV and VOIP running over a control system Ethernet network. |
| 4 | MN303 | 09:15 - 12:00 | Integrating safety with GuardLogix and Ethernet/IP safety devices | Glenn Bates & Ray Daniels | Take your machine safety control and your productivity to the next level with GuardLogix control and safety IO devices. Create a small, safety application with predefined faceplates for HMIs to experience the quick and easy set up of a running system. Learn how you can easily reduce much of your valuable development time. |
| 5 | MN304 | 13:00 - 17:15 | Integrated Architecture - The Power of One: End User and OEM lab fundamentals | Mike Loughran & Andy Bullock | Experience the ease of integration of variable speed drives, I/O and visualisation with Logix controllers on EtherNet/IP networks. Implement the latest pre-configured HMI faceplates to provide detailed information for your PowerFlex inverters and observe how it greatly reduces your development time and complexity of small- to mid-sized applications. |
| 3 | MN401 | 09:15 - 10:00 | Vision for Automation in the Water Industry | Key Speaker from Water Utility | A vision of the future strategy for the Water Industry |
| 3 | MN402 | 10:00 - 10:30 | IT & Automation Convergence in Water Applications | Andy Longyear (Cisco) & Alan Sercombe | Learn how Rockwell Automation and Cisco can help your Utility with the convergence of the automation and IT worlds. Learn how the Stratix 8000 family and the Ethernet Network integrates into your corporate network and discover how Operational Intelligence can be used to drive performance in your operation. This session focuses on how to put in place the right infrastructure that allows easy use of data historian tools (FactoryTalk Historian), productivity dashboards (FactoryTalk VantagePoint), CCTV and VOIP running over a control system Ethernet network, right up to complex Manufacturing Enterprise Systems. |
| 3 | MN403 | 10:45 - 12:00 | Real-time simulation and process optimisation in water distribution | Petr Horacek, Advanced Technology Lab Prague, Czech Republic | Services and tools to help water companies in testing performance of the existing or newly designed controls for their water systems will be introduced. Operator's training with user defined scenarios, on-line fault detection (e.g. water leakage, pump and valve operation deterioration), virtual reading of variables not measured physically, estimating and predicting local demand, saving expenses through economical time-of-day pumping schemes will be presented. In addition, the simulator is used in validating run-time control code where controls and SCADA run on a real hardware and water system runs virtually. Library of system components like pumps, valves, tanks, pipes, open channels, controllers etc. with parameters initialized by design settings and calibrated using historical data guarantee that the simulation matches the reality closely. Experience from the City of Los Angeles, where the simulator covers the complete water distribution system of greater LA, City of Cleveland, with waste water system analysis, and desert irrigation in Oregon will be shared. |
| 3 | MN404 | 13:00 - 14:00 | Data Rich & Information Poor ? - Improved information management in water applications | John Gooday & Brett Willets | Discover how Operational Intelligence can be used to drive performance in the Water Industry. This session focuses on how to exploit data from your remote sites. We take a look at data historian tools (FactoryTalk Historian), productivity dashboards (FactoryTalk VantagePoint), right up to complex Manufacturing Enterprise Systems. Come and experience for yourself how FactoryTalk® Integrated Production & Performance Suite can help you to capture, organise and present data from remote pumping stations and other assets |
| 3 | MN405 | 14:00 - 15:00 | How to gain remote access to your site automation assets in a secure way | John Gooday, Brett Willets & Richard Piggim | Despite the mutating threats of cyber attacks, online extortion, or spam, a well-structured information security strategy can safeguard your business and ensure that risks are managed with commitment and understanding. It can also help to reassure your customers, who in the UK (for example), according to a recent study now fear internet crime more than burglary, mugging or car theft. Yet, because the Internet is not territorial or jurisdictionally bound, organized crime efforts to steal everything you hold dear by extortion, threats, intimidation – not in the bricks and mortar world but in the online world, our normal responses to 'attack' are not as effective. But there are solutions - Join us to see how Rockwell Automation Technology can help you secure your infrastructure. |
| 3 | MN406 | 15:15 - 15:45 | How to exploit data from Field Devices in today's water utility | Glenn Bates & Brett Willets | This session takes a practical look via demonstration at technologies such as EtherNet/IP, DNP3 WITS and others. You will see how water utilities can utilise these technologies to exploit data from field devices such as telemetry stations, Level & Flow Instruments etc. |
| 3 | MN407 | 15:45 - 16:15 | Planning for a Sustainable future in water. | John Gooday & John Raby | Understand what "sustainability" means to the Water Industry. Discover what is driving energy costs, the risks in supply and why it makes good economic and business sense to invest in energy reduction measures. It then moves on to cover how modern power monitoring systems work, how they can be integrated into plant systems, the reporting and information data available and how these factors enable energy reduction measures to be implemented. You will be shown how and why addressing high power applications can bring the fastest savings in energy coupled with the shortest payback periods, including examples of real applications and the savings achieved and a guide to identifying potential high power areas for saving energy. Also in this session you will learn how adopting a Predictive Maintenance philosophy can help you increase Output, Reduce Costs, Operate in a safe and environmentally friendly manner, in other words "how to become an effective low cost producer". |
| 3 | MN408 | 16:15 - 17:15 | Strategic Maintenance in Water - Matching your activities to your assets needs | Garry Poole | To meet the Water Industry's more demanding production and business goals, it's virtually impossible to take an la carte approach to maintaining production assets. Instead, it is now necessary for you to use a strategic approach to maintenance, one that includes a comprehensive plan that identifies issues, needs and objectives and coordinates every function within your organisation, beginning with the engineering department during system design, to meet those objectives. By carefully specifying components that are based on an integrated system architecture and applying the right combination of Predictive, Preventive and Reactive Maintenance methods during the systems life cycle, you can obtain the following benefits: Predict - eliminate unplanned downtime events Prevent - consistently operate to specifications and reduce downtime duration React - improve speed to change Whether you are located around the corner or around the globe, the Rockwell Automation Service & Support Network can provide the above and consistently achieve improve productivity and financial stability to your operations. Join us at this session to learn how to adopt a strategic approach to maintaining your infrastructure. |