



Agenda

Day of Automation
14 September 2010, Lemgo

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| 10 am | Welcome
<i>Andreas Orzelski, KW-Software, Lemgo</i> |
| 10:15 am | Success factor simplicity – What we can learn from the world of gaming
<i>Volker Bibelhausen, Phoenix Contact Electronics, Bad Pyrmont</i>
The presentation deals with the requirement to decrease the complexity in automation. The objective is simple and controllable control systems for demanding tasks, which offer the operator cost advantages by decreasing the complexity. The gaming industry can offer invaluable inspiration here. Volker Bibelhausen will use examples for this and draw possible conclusions for the world of automation. |
| 10:45 am | The new KUKA robot control generation 4:
The future of control engineering has already become a reality in the KRC4
<i>Heinrich Munz, KUKA Roboter, Augsburg</i>
„Safety · Security · Performance · Connectivity · Virtualization · Multicore“, the new robot control generation KRC4 from KUKA Roboter features all these technologies and characteristics. The new path taken in 1996 of giving preference to the use of mainstream technologies, like a Windows PC with VxWorks as real-time extension, was carried on consistently. The presentation gives an overview of how the stated technologies and features were realised on a mainstream PC motherboard with one single Intel Core2 Duo Processor and which development objectives were thus pursued and implemented. |
| 11:15 am | Coffee break |
| 11:30 am | Simplicity, flexibility, safety with PSR-TRISAFE, SafetyBridge and SAFECONF
<i>Tjark Höltkemeier, Phoenix Contact, Blomberg</i>
With the SAFECONF software, you can easily create the safety logic for the configurable safety modules PSR-TRISAFE and SafetyBridge via drag & drop. The software offers you the flexibility you need for quickly extending and modifying the configuration. From logic creation right up to commissioning, SAFECONF lets you safely implement relevant standards like ISO 13849-1 with integrated tools like the simulation mode and forcing. |
| 12:00 pm | The scalable software platform
<i>Boris Waldeck, KW-Software, Lemgo</i>
IEC 61131, SAFETY and PROFINET technologies as scalable solutions for automation devices of all kinds. The presentation describes the application of the scalable software platform for different automation solutions by using technologies like Atom Multicore, Cortex-M3 in-place execution and .NET. |
| 12:30 pm | Lunch |
| 2:15 pm | TPS-I – Simple integration of PROFINET
<i>Niels Trapp, Renesas Electronics Europe, Düsseldorf / Peter Fuchs, KW-Software, Lemgo</i>
PROFINET is about to become the global network standard in automation engineering. With special features, the PROFINET Device Chip TPS-I sets new standards for fast, simple and cost-effective integration of interfaces into automation devices. The presentation explains the features and advantages of the TPS-I and describes the next steps with regard to market launch and user support. |
| 2:45 pm | Security meets Automation
<i>Torsten Rössel, Innominate Security Technologies, Berlin</i>
Security problems and tasks in automation. Design for Security: why modular solutions with dedicated appliances are superior. Easy Security: OEM security technologies for automation that can be integrated. |
| 3:15 pm | Solutions for safety-relevant functions in rail traffic
<i>Thoralf Schnarr, Bombardier Transportation, Mannheim</i>
Requirements of safety-relevant functions and their implementation. Solutions for cost optimization of approvals. |
| 3:45 pm | Discussion, questions and answers |