

# **Intelligent Solutions for Embedded Safety and Condition Monitoring**

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# Intelligent Solutions for Embedded Safety and Condition Monitoring

Since 1987, software manufacturer logi.cals scores with applications for industrial plant planning and automation.

For more than 20 years logi.cals has been developing software tools for optimizing applications in automation industry. „We increase the productivity of applications – automatically and reliably, easily and independently“, logi.cals CEO Heinrich Steininger outlines the mission statement of his software company. The most recent innovations in the fields of safety, condition monitoring, plant planning, PLC programming and automation will be presented from March 1 - 3, 2011, at the „embedded world 2011“ in Nuremberg.

**Oberwölbling, March 2011** – logi.cals is an independent software development company focusing on the process technology, automation, facilities planning and condition monitoring. The company offers intelligent tools for the implementation of applications in all engineering processes. In addition, logi.cals is an individual service provider with specific industry-related know-how. „With our universal standard programmes we support our customers in their project management and documentation tasks, and ease the burden of technical and administrative workload and routines“, says logi.cals CEO Heinrich Steininger. The application areas of our core products logi.DOC (plant planning) and logi.CAD (PLC programming, automation) range from embedded controllers to highly complex heterogeneous automation environments. With the new safety-add-on logi.SIL, a standard engineering environment can be made a safety engineering environment with little effort.

## **logi.CAD and logi.DOC**

logi.cals' core products are logi.CAD and logi.DOC. logi.CAD is a manufacturer-independent automation platform for realizing comprehensive automation projects. logi.DOC facilitates comfortable and efficient development of function plans as well as sequential flow charts without limits. This starts with the design of the core logics

and is continued with simulation, test and documentation. The interfaces for the automation engineer are well-thought-out and versatile and allow an economical process.

### **Programme Updates, new version 5.2**

As of March 2011, the new versions 5.2 of logi.CAD and logi.DOC will be generally available. Both applications have been improved for better usability, safety and flexibility. Other logi.cals products are: logi.CED (Designer for Cause-and-effect-tables), logi.FAT (Factory Acceptance Test Tool), logi.RTS (PLC runtime system), logi.CODE (basic modules for system connections), logi.DICT (dictionary and translation service), logi.VIS (visualization system), webSERVER (visualization in web browser), opcSERVER (process data server OPC standard), logi.PLC (system solutions with logi.cals partners), logi.SIL (safety-add-on) and logi.GUARD (Condition Monitoring Platform for condition monitoring of industrial plants).

### **logi.cals at the „embedded world 2011“**

At the stand of our partner MicroSys (Hall 12, Stand 12-214), where we will be present from March 1 -3 as a co-exhibitor, we will present a common embedded safety solution and the new Condition Monitoring library for the integration of CM functions in OEM systems. In addition to the new products, the „House of Condition Monitoring“, an all-inclusive service package, will be presented.

- logi.GUARD powered by Messfeld, the freely programmable Condition Monitoring Platform which optimally combines Condition Monitoring and Automation, is one of the components of the expert center „House of Condition Monitoring“, which offers consulting-, engineering-, installation-, commissioning-, training- and support-services, all from one source.
- For OEMs who have always wanted to implement Condition-Monitoring functions in their systems: With the CM-Library made by logi.cals, CM functions can be quickly programmed in the languages C, ST or FBD and integrated in the OEM's system (concept).
- logi.SIL – the safety-add-on for safety where you need it. Hardware partner MicroSys and logi.cals offer an easy-to-handle and reliable solution: a hardware component (CPU board) with all that is necessary to reach the required intrinsic safety, as well as a PLC programming system and a PLC

runtime environment, especially optimized for this board.

### **Regular Live Presentations at the Stand**

This year, visitors will see regular live presentations at the stand, featuring logi.CAD (automation system), logi.SIL (safety add-on) and logi.GUARD (Condition Monitoring). Established and brand-new features of our products as well as new solutions will be presented.

### **logi.GUARD/House of Condition Monitoring – All Component from One Source**

The House of Condition Monitoring combines all competences necessary for efficient and reasonable Condition Monitoring. Together with network partner Messfeld, logi.cals offers support for analysis, conceptual design and implementation of sustainable solutions and for optimizing measurements by using Condition Monitoring. logi.GUARD as a freely programmable platform offers for the first time an opportunity to combine various data and data parameters in a sophisticated, yet simple way. Engineering and automation covers total system planning, parameter and data concept development, maintenance process integration as well as R/I scheme implementation and partial planning. Integration of functions with automation solutions follows the selection and installation of the required hardware. Development of parameters and Condition Monitoring functionality then follows together with visualization design.

“The basis for this intelligent system is a simple approach: integrated instead of isolated applications – standard components instead of special solutions – open platform instead of restricted software systems. The result is a homogeneous and complete system with a considerably better cost-benefit ratio” explains Marketing & Sales Director Erich Jellinek. The concept of the “House of Condition Monitoring” will be carried out with local service providers.

### **logi.SIL: Safe Parameterizing, Safe Programming, Safe Engineering**

Decide yourself, which engineering tool you want to use: your existing software, a new product development or even better: full logi.CAD power for IEC 61131 and safety!

All the same, whether for parameterizing simple devices with your special software (or even with Microsoft Excel) or for programming with your in-house programming

system: The new safety add-on logi.SIL integrates in your engineering process and allows development of safety-related software with „conventional methods“. You can continue using your automation projects and control programmes: logi.SIL serves as a bridge between your non-safe engineering software and your safe control device. The innovative safety concept logi.SIL allows creation, validation and release of applications up to IEC 61508/IEC 62061 SIL3 and ISO 13849 Pla-e. Of course, the appropriate component in the PLC – logi.SIL RTS – allows safe execution of your application. An innovation which not only increases your productivity and safety of your application is the safety-related compare-function. This feature allows partial tests and thus reduces the workload for testing an already loaded application significantly – and above all: it is independent of the engineering system. In combination with the static code analysis tool logi.LINT you can achieve higher reliability of your projects already before verification and validation.

### **Christian Doppler Laboratory „Software Engineering Integration for flexible Automation Systems“**

In the new Christian Doppler laboratory „Software Engineering Integration for flexible Automation Systems“ researchers from informatics and electrical engineering start from use cases defined by logi.cals and develop approaches for technical integration of software tools and semantic integration of knowledge models across engineering disciplines. The quality management is based on tangible research scenarios in order to assure product and project quality. Versioning of engineering models as well as the "end-to-end test" from the sensor in the field to the software variant are further research topics.

The focus of this top-class co-operation is efficient „Engineering Environment Integration“ by using the Automation Service Bus<sup>®</sup>. logi.cals provides practical use-cases. Based upon these use-cases researchers from informatics and electrical engineering develop approaches for technical integration of software tools and semantic integration of knowledge models across engineering disciplines. Join our expert talks to inform yourself about the most recent results and use-cases!

## Corporate Data

logi.cals automation solutions & services GmbH has been developing state-of-the-art software for the automation technology, process-based industry and industrial plant engineering sectors for more than 20 years. The company's mission is to increase its customers' productivity – automatically and reliably, easily and independently. This can be achieved by integrating logi.cals' open interface software modules into the automation environments and platforms of different manufacturers. logi.cals is a founding member of PLCopen, a member of AutomationML ([www.automationml.org](http://www.automationml.org)) and participates in various industry-related committees and user-organisations. Since January 2010 the company participates in the Christian Doppler Research Laboratory at the Vienna University of Technology, focusing on “Engineering Environment Integration”. The company has at present 36 employees at its head-office in Oberwölbling near St. Pölten (Austria) and at its branch office in Langenfeld (Germany). 3rd Party Sales in 2010 were c. EUR 2.7M.

More information at: [www.logicals.com](http://www.logicals.com)

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