

PRESS RELEASE

Software Building Blocks for the Internet of Things

A new software framework by Applied Informatics greatly reduces the effort required to develop device software for the Internet of Things. To get started quickly, pre-integrated starter kits for building industrial or embedded IoT gateway devices are available.

(Klagenfurt, April 2014) – Making an embedded system ready for the Internet of Things (IoT) is a challenging task. Complex requirements related to connectivity, interoperability and especially security must be met. A good way to deal with complexity is to rely on existing, industry-proven building blocks. Applied Informatics has developed the *IoT Framework*, a comprehensive, integrated set of software building blocks for the development of applications targeting IoT gateway devices. The IoT Framework provides ready-to-use application programming interfaces (APIs) for communicating with connected sensors and devices, for processing, logging and visualizing sensor data via a built-in web server, and for connecting to cloud services, enterprise systems or mobile apps using technologies such as MQTT, SOAP, JSON-RPC and REST web services. An Embedded Web Application Server supports web-based user interfaces, user authentication/authorization and device management. Device software can be dynamically updated and extended. Support for signed code and app store-style software distribution is available. Secure remote access via web browsers or mobile apps is supported via *my-devices.net*, another technology developed by Applied Informatics. An integrated JavaScript engine makes it possible to write applications in JavaScript. For complex or performance-critical applications, native C++ code is supported as well. Both languages can be used in parallel, and an easy-to-use bridging mechanism allows for seamless integration of scripts and native code. With SSV, a Hannover, Germany-based vendor of industrial gateways and embedded system-on-modules, Applied Informatics has created starter kits combining Linux-based ARM Cortex-A8 systems with the IoT Framework. Two variants of the starter kit are available, one based on an industrial router/gateway device, and the other one based on an embedded system-on-module.

For More Information

<http://www.iot-framework.com>

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About Applied Informatics

Applied Informatics, founded 2006, is an Austria-based software company focusing in the field of Internet of Things, Intelligent Systems and Cloud Services, providing frameworks and tools for cross-platform and embedded C++ software development. This enables software developers create network- and internet-based applications for desktop, server, embedded and mobile platforms with state of the art technologies in a short time and with very little effort. Especially the new *IoT Starter Kit*, a joint development between Applied Informatics and the German based SSV will bring development of systems for Internet of Things/Industry 4.0/M2M to a new level.