



PRESS RELEASE

With ETSI M2M support, KNX has become REST API compliant.

5 February 2014 – KNX, the leading open standard for Home and Building Control now provides a Web-based (REST) development interface through its complete integration with the ETSI M2M Release 2 architecture.

With the simple RESTful API outlined in ETSI TR 102 966, M2M Application developers and cloud services can access a large number of fieldbus and automation protocols with a homogeneous XML protocol independent syntax (oBix) and the usual GET/POST/PUT/DELETE verbs already used by Web browsers. The addition of native KNX support to TR 102 966 means that KNX developers can access KNX specific XML elements in addition to the abstract protocol independent elements. For instance the full details of KNX DPTs may be accessed through the ETSI M2M REST API.

This enhanced KNX REST API provides full access to the entire KNX ecosystem. The REST API is very easy to use for any developer, as it is the same proven technology used inside Web browsers. In addition REST simplifies component implementation, reduces the complexity of connector semantics and improves the architecture scalability.

A KNX/IP sample REST driver is provided as open-source at <http://cocoon.actility.com>

For M. Joost DEMAREST, CTO of the KNX Association *"A developer can very quickly develop reliable automation application without deep knowledge of the KNX protocol. Also, REST is independent from the selected underlying development language. Developers can keep their familiar environment like C++, Java, php... "*

More generally, KNX is now fully compliant with the ETSI M2M architecture and provides a development framework for distributed automation applications. ETSI M2M defines how M2M devices communicate securely with each other and with M2M applications, and how they interact with local scope automation and fieldbus standards, such as KNX. An introduction of ETSI M2M is provided at http://cocoon.actility.com/documentation/ongv2/ETSI_M2M_videos. Support for wide area network distributed automation programming for KNX comes at the right moment: smart-grid and other energy optimization applications now require multi-site secure APIs for aggregators and other next generation energy services providers.

KNX support completes the long list of fieldbus protocol drivers already supported by the ETSI M2M. Interoperability with other protocols is provided by the framework that smooth interconnection with other fieldbus protocols that might be found on the same site or as part of the same distributed architecture.

For M. Philippe MAGNERON, Deputy to technology & partnership director of Hager *"Through http, ETSI M2M REST is firewall friendly. It does not require any company NAT or home gateway configuration. For Hager, it is important that our KNX equipment can be installed and controlled easily and does not interfere with the customer network."*

The set of KNX resources complies with the TR 102 966 interoperability framework of ETSI M2M, ensuring that any ETSI M2M application will be able to browse the KNX network and interact with the

bus. In addition, KNX specific elements has been added to the REST resources so that KNX aware ETSI M2M applications have full access to the advanced features of the KNX network and devices for specific needs. TR 102 966 combines the ability to access any protocol with a uniform API, with the ability to innovate and access native protocol specific features.

For Marylin ARNDT, Chairman of ETSI SMART M2M Technical committee: *"ETSI comprehensive M2M architecture allows integrating any existing Machine to Machine technologies and makes them available easily to application developers. This API will enable ETSI M2M applications to access the advanced features of KNX networks."*

With the "Cocoon" Open source initiative (<http://cocoon.actility.com>), a KNX REST API implementation is available to the developer and manufacture community at no cost. Cocoon wants to enable mass market M2M deployments with millions of gateways accessing hundreds of applications.

"The KNX community can freely access the REST driver, use it in an ETSI M2M framework or in proprietary developments. It is accessible as a standalone Linux executable which accepts REST commands over CoAP/UDP, according to ETSI M2M dla interface. We hope that this kind of facilitator will foster the development of new innovative cloud M2M applications, such as Smart Grid Demand Response for example." adds Olivier HERSENT, Actility CEO.

About KNX

KNX Association is the creator and owner of the KNX technology – the worldwide STANDARD for all applications in home and building control, ranging from lighting and shutter control to various security systems, heating, ventilation, air conditioning, monitoring, alarming, water control, energy management, smart metering as well as household appliances, audio/video and lots more. KNX is the worldwide standard for home and building control with a single manufacturer independent design and commissioning tool (ETS), with a complete set of supported communication media (TP, PL, RF and IP) as well as a complete set of supported configuration modes (system and easy mode). KNX is approved as a European (CENELEC EN 50090 and CEN EN 13321-1) and an International standard (ISO/IEC 14543-3). This standard is based upon more than 23 years of experience in the market including its predecessors, EIB, EHS and BatiBUS. More than 320 member companies worldwide from different application domains have almost 7000 KNX certified product groups in their catalogues. The KNX Association has partnership agreements with more than 38,000 installer companies in 120 countries. Visit www.knx.org.

About Actility

Actility is an industry leader in Machine to Machine (M2M) large scale infrastructure with ThingPark®, the new generation standard-based M2M communication platform. ThingPark® market provides access to added-value applications from Actility and partners. Actility Smart-Grid applications focus on demand optimization and management, including Demand Response, Load Shifting and Admission Control. Actility is a winner of the French Ministry of Research competition, has obtained the Grand Prix of the Tremplin Entreprise and has been rewarded by Innov' Eco and CleanTech République for its particularly innovative approach in its Internet Of Things (IoT) solutions. Visit www.actility.com and cocoon.actility.com.

About Hager Group and Hager

Hager Group is a leading supplier of solutions and services for electrical installations in residential, commercial and industrial buildings. Our range of solutions and services extends from energy distribution to cable management and from security systems to building automation. As an independent family-owned and run company based in Blieskastel, Germany, Hager Group is one of the industry's innovation leaders. 11,400 employees generate a turnover of 1.6 billion euros (2012). Our components and applications are produced in 22 locations around the globe and customers in more than 80 countries all over the world trust in them. Visit www.hager.com and www.hagergroup.com.

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