

Press Release

Maximum data protection for smart buildings

KNX Secure offers the highest security level worldwide!

Brussels, 24 October 2017 – KNX is the first and only smart home and smart building standard that meets the highest security requirements in cyber security worldwide. International standardisation bodies have now officially confirmed this. With its security architecture KNX Secure, which is now standardized according to EN 50090-4-3, KNX successfully blocks hacker attacks on the digital infrastructure of networked buildings, thus ensuring maximum data protection.

No more digital break-ins!

IT security experts have long warned that hackers are increasingly targeting smart home and smart building solutions. Time and again, we hear about cases where they exploit vulnerabilities of products, interfaces or radio standards for their digital raids. “In the past, burglars would enter buildings through doors or windows. Nowadays they enter through radio and communications networks. As buildings have become increasingly digitally networked, the nature of potential dangers has also changed. Only KNX has been delivering the most appropriate responses to these”, explains Franz Kammerl, President of the KNX Association.

Highest encryption standards

The developers of KNX responded early on and implemented sophisticated protection concepts for networked buildings in the form of the world's leading standard. The result was the security architecture KNX Secure, which internationally also relies on security algorithms standardised according to ISO 18033-3, such as AES 128 CCM encryption, in order to effectively prevent attacks on the digital infrastructure of buildings and to achieve the highest level of data protection.

Double protection concept for twice the security

KNX Secure essentially consists of two mechanisms: **KNX IP Secure** protects the IP communication between the KNX installations. For this purpose, KNX IP Secure extends the IP protocol in such a way that all transferred telegrams and data are completely encrypted. At the same time, **KNX Data Secure** effectively protects user data, including data exchanged with the various terminals, against unauthorised access and manipulation by means of encryption and authentication. Both mechanisms can be combined and used in parallel to achieve maximum safety.

“Terminals, interfaces, radio standards and communication protocols: vulnerabilities can potentially be found everywhere. Therefore, smart homes and buildings should be secured with the most comprehensive and

KNX Association cvba
De Kleetlaan 5 bus 11
B-1831 Brussels-Diegem
Belgium

Tel.: +32 (0) 2 775 85 90
Fax: +32 (0) 2 675 50 28

info@knx.org
www.knx.org

recognised safety standard which is also unique in the world in this area: KNX Secure!" said Franz Kammerl.

For further information, please visit: <http://KNXSecure.knx.org>



Image 1: KNX Secure is based on internationally standardised security algorithms, the AES 128 CCM.



Image 2: KNX Secure is now certified according to EN 50090-4-3.

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 blind 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 many more. **KNX** provides 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 27 years of experience in the market. Over 400 member companies worldwide from different application domains have more than 7000 KNX certified product groups in their catalogues. The **KNX** Association has partnership agreements with over 70,000 installer companies in 160 countries.

www.knx.org

For more information / material please contact: heinz.lux@knx.org

Pictures can be downloaded at: www.knx.org/knx-en/press-room/