



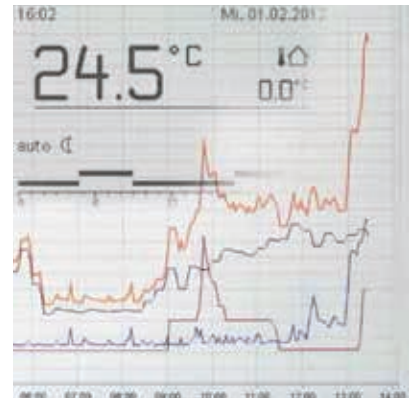
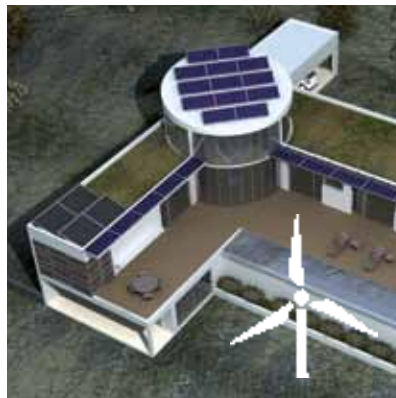
# JOURNAL

Worldwide Product Certification

KNX is the Standard in China

European Smart Home Research

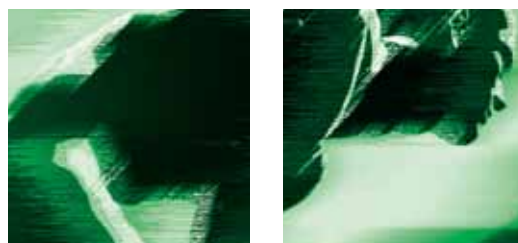
Energy Efficiency with KNX



**2**  
**2013**

The worldwide **STANDARD** for home and building control

[www.knx.org](http://www.knx.org)



www.knx.org

Easy

Fast

Open

# ETS4 Professional

NEW

ETS Apps

NEW

New licenses	PC dependent Host-ID	PC independent Dongle	Restrictions
ETS4 Professional	900,00 €	960,00 €	
ETS4 Supplementary	50,00 €	110,00 €	For Notebooks, max. 2 licenses, only together with ETS4 Professional
ETS4 Lite	100,00 €	160,00 €	max. 20 products
ETS Apps	see KNX Online Shop	see KNX Online Shop	
Upgrade licenses			
ETS3 Pro > ETS4 Pro	250,00 €	310,00 €	
ETS3 Supplementary > ETS4 Supplementary	50,00 €	110,00 €	
ETS3 Trainee > ETS4 Lite	50,00 €	110,00 €	
Educational licenses			
ETS4 Training Package	1.000,00 €	1.500,00 €	1 x ETS4 Professional, 10 x ETS4 Lite / 2 x Trainingshandbook

All prices: + VAT; + Service fee (15,- € / order)

<http://onlineshop.knx.org>

## Editorial



Heinz Lux,  
CEO  
KNX Association

## Facts and Figures

For the scientific community, 2013 constitutes the year of demographics and mathematics. Mathematics is the basis of all sciences, almost every technological development and plays a key role in the economy. Again and again, great and small philosophers were amazed that large parts of our lives can be described with mathematical methods. The ancient Pythagoras already knew, 'Figures are everything.' Mathematics needs Facts and Figures. Figures count and tell us the reality. In the future our reality will be the more responsible use of energy resources. Figures make this clear: buildings are currently responsible for more than 40 % of global energy consumption and 21 % of greenhouse gases. The solution of the problem is not an equation with unknown variables.

Intelligent KNX networks save energy around the world; e.g., in a condominium with 24 residential units in Bologna, Italy. Savings by the use of KNX control technology: € 22,400 per year. 20 % energy savings in Santiago de Chile at the 'Casa maxima' thanks to the integration of all trades

via KNX. In Kortrijk, Belgium, building automation saves energy in a commercial building with KNX by the use of controls for daylight and artificial lighting, heating and cooling, access control and intrusion detection, smart metering and visualization. By the control of 3,500 lighting circuits, motion sensors, multi-functional push buttons, automated blinds and room temperature controls, the American School of Dubai consumes 45 % less energy. KNX technology also controls the entire system of the Minergie villa in the Swiss town of Eysins and provides energy savings, sun protection, safety and comfort, weather dependant control, i.e. automatic closing of the roof windows and blinds. Economic considerations in procurement, installation and operation as well as energy savings inevitably lead to the use of KNX, especially now that energy prices are rising. Admittedly, these are all just numbers, facts and figures – whether these numbers also hold true for your project, you can find out best yourself by using KNX. Give it a try!

## Editorial

- 2 KNX approved as Chinese Standard (GB/T 20965)
- 3 Growing Influence of KNX  
*BSRIA European Smart Home Research*
- 4 Worldwide KNX product certification  
*TÜV Rheinland and KNX Association sign Partnership Agreement*

## KNX Projects

- 5 High efficiency urban living (Italy)  
*KNX saves money compared to expensive conventional systems and controls all the building services*
- 6 High efficiency ensures self sufficiency and comfort (Chile)  
*KNX keeps electricity and water consumption low in autonomous villa*
- 7 Intelligent architecture, intelligently controlled (Belgium)  
*KNX for efficient facilities management*
- 8 Unique in Limas Metropolis (Peru)  
*Automated LED lights bring out the best in architecture and grounds*
- 9 Model energy efficient school (Dubai)  
*Building automation optimises learning environment*
- 10 The brand provides what it promises (Swiss)  
*KNX controls and monitors all energy relevant functions in low energy houses*

## KNX Tools

- 11 ETS Apps – A success story
- 15 New ETS Apps

## KNX Members

- 16 New Members
- 21 New KNX Products

## KNX Partner

- 32 National Groups
- 41 KNX Training Centres
- 46 KNX Scientific Partners
- 48 KNX Userclub / KNX Professionals

## KNX Out & About

- 50 KNX at international Conferences and Fairs
- 56 Imprint

## KNX approved as Chinese Standard (GB/T 20965)



**KNX is the only worldwide open Standard for home and building control. KNX complies with the requirements of the international standard (ISO/IEC 14543-3) as well as with both European standards (CENELEC EN50090 and CEN EN13321-1 respectively EN13321-2) and the US ANSI/ASHRAE. The approval of KNX as Chinese Standard (GB/T 20965) confirms the importance of the KNX technology on the Asian continent.**

KNX is the worldwide Standard for home and building control. Back in 1990, nine companies with an electrotechnical and building management background founded the association with the same name. Until today, more than 300 companies from 34 countries worldwide have joined this association, offering more than 7000 certified products. KNX offers wired (Twisted Pair, Powerline, IP/Ethernet) as well as wireless communication (Radio Frequency).

**Picture 1.** The KNX market in China is clearly booming since a number of years. Important projects like Shanghai Hongqiao International Airport or Guansu Electric Building were equipped with the KNX Technology.



**Picture 2.** The KNX commissioning tool (ETS) and the KNX Handbook are already available in Chinese.



## KNX – the only approved Chinese standard for Home and Building Control

The high interest in China for compatible KNX products and the KNX Technology has encouraged KNX Association to have the international ISO/IEC approved Standard 14543-3 translated into Chinese. The translated KNX Standard was fed into the Chinese standardization process via the standardization body SAC TC124 and approved by this committee as GB/T 20965, making KNX the only approved standard for home and building control in China.

China will be one of the most prominent markets for intelligent building control in the coming years. KNX is well prepared for this:

- A multitude of KNX Member companies (including 20 Chinese members) have already been active in this market for years;
- Four certified KNX training centers offer qualified KNX training for system integrators, building designers and investors;
- A neutral testing laboratory supports the manufacturers when certifying their products according to the KNX standard;
- The manufacturer and product independent commissioning tool ETS is available in Chinese;
- The KNX Handbook in Chinese offers a good introduction into the KNX technology.

There is a high need to drastically reduce energy consumption in China. Especially in commercial projects, one is on the lookout for adequate solutions, an ideal breeding ground for KNX products and systems.

### KNX China Roadshow promotes KNX in four larger Chinese cities

This summer KNX China organized the KNX China Roadshow, bringing it to the following four cities: Beijing, Shanghai, Chongqing und Guangzhou. At each location, two event days were organized:

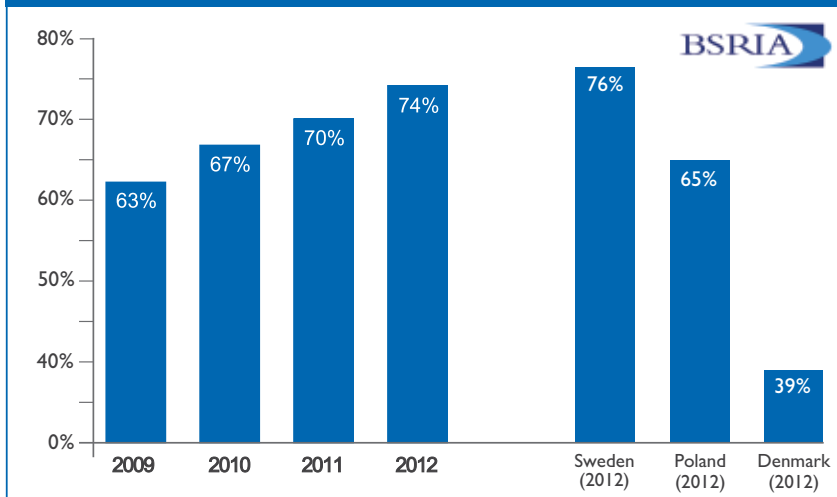
- The 'KNX Technology and Application Forum' focused on system integrators, building architects, researchers, investors as well as manufacturers as target group;
- 'KNX Development Getting Started' focused on the important target group of manufacturers, wishing to develop KNX compatible devices.

Contact: [info@knxchina.org](mailto:info@knxchina.org)

## Growing Influence of KNX

BSRIA European Smart Home Research

### Share of KNX in the total smart home market value



With the growing importance, KNX is the leading protocol in the European Smart Home market.

**KNX features prominently as a major element of the European Smart Home market as detailed in new research by BSRIA (The Building Services Research and Information Association). It has presented the results of its European Smart Home Market Study including nine in-depth reports on different European markets – Poland, Sweden, Denmark, Germany, France, United Kingdom, Netherlands, Belgium and Norway. There is also a summary pan-European Report.**

BSRIA's study is one of the first to analyse comprehensively all available knowledge on smart home technologies and to generate reliable market data. As a result, it provides an encompassing overview of the European market. BSRIA recently finalized his European Smart Home study by offering the market results from Poland, Sweden and Denmark.

#### Market development in Poland

One of the highlights of BSRIA's study is the news that the overall Polish market for smart home systems amounted to 12.5 million Euro in 2011. Over the last decade, this market has been growing steadily and according to BSRIA estimates, the share of KNX solutions within the total market value reached 54%. For a developing market such as Poland, this represents great success for KNX intelligent building technology.

#### Growth in Sweden

In Sweden in 2011, the overall smart home market value was 17.3 million Euro. KNX made up for the vast majority of this with some 13.2 million Euro or 76% of the total. The scope for KNX based solutions in the residential sector is set to further increase as the share of complex home automation systems, which are more suited to KNX technology, also grows. In the medium term, comfort and convenience will be the key drivers, with high-income households and commercial clients expected to create major demand.

#### Market penetration in Dänemark

In 2011, the smart home market in Denmark was valued at almost 10 million Euro. According to BSRIA estimates, KNX installations represented 39% of the total value. This reflects highly significant penetration considering the presence of a major proprietary protocol with an historic strong market influence. Since 2009, following the entry of the KNX openprotocol into the Danish market, the situation has been changing dramatically with KNX establishing its position as the flagship technology. Average growth for KNX has been an impressive 10% per annum.

Contact: [bsria@bsria.co.uk](mailto:bsria@bsria.co.uk)

## Worldwide KNX product certification

TÜV Rheinland and KNX Association  
sign Partnership Agreement

**TÜV Rheinland signed a partnership with the KNX Association and will now offer product testing according to the KNX standard in Asia, Europe and North America. Within the cooperation, TÜV Rheinland intends to support the recognition and the internationalization process of the KNX technology with its global network.**



Prof. R. Wilde,  
Executive Vice President Products TÜV Rheinland

“TÜV Rheinland offers a wide variety of testing services in several test labs around the world for products that reside in the Smart Grid ecosystem. As a consistent participant in international working groups and technical committees, we are constantly updating our service portfolio as new standards are released. For our customers we ensure that their products are in compliance with the relevant standards as well as interoperability of the products for later on obtaining specific certification marks from industry alliances such as KNX” said Prof. R. Wilde, Executive Vice President Products TÜV Rheinland.

As the selected test facility for several industry alliances, TÜV Rheinland has the right intellectual property to perform the testing of ‘to be certified’ KNX devices. The industry groups further ac-

cept TÜV Rheinland’s test results for their own certification programs.

“We are delighted about this alliance between KNX and TÜV Rheinland. This is an important step towards internationalization of KNX and the development of internationally coherent energy management devices”, said Franz Kammerl, the President of the KNX Association. “The internationalization of the KNX system has been a prime goal set by the KNX Executive Board back in 2009. The



Precisely Right.

*TÜV Rheinland is a global leader in independent inspection services. The Group maintains a presence at around 500 locations in 65 countries with 17,000 employees.*

application for membership of more than 100 new members in 33 countries in the past two years clearly underpins the spreading of the KNX technology into other parts of the world, i.e. Latin America, South-Africa, Middle East but first and foremost in Asia. The availability of neutral product test laboratories is one of the key points of the internationalization processes’.

**Contact:** [www.knx.org](http://www.knx.org)

### About TÜV Rheinland

TÜV Rheinland is a global leader in independent inspection services, founded more than 140 years ago. The Group maintains a presence at around 500 locations in 65 countries with 17,000 employees. Annual turnover is 1.5 billion Euros. The independent experts stand for quality and

safety for people, the environment, and technology in nearly all aspects of life. TÜV Rheinland inspects technical equipment, products and services, oversees projects and helps to shape processes for companies. Its experts train people in a wide range of careers and industries. To this end, TÜV Rheinland em-

plays a global network of approved labs, testing and education centres. Since 2006, TÜV Rheinland has been a member of the United Nations Global Compact to promote sustainability and combat corruption.

**Contact:** [www.tuv.com](http://www.tuv.com)

## High efficiency urban living (Italy)

KNX saves money compared to expensive conventional systems and controls all the building services



*The new residential development Podgora Residence combines strikingly original architecture with efficient building services.*

### Highlights at a glance

- Residential development with 'Casa Clima A+' certification
- Heat pump with 15 geothermal probes at a depth of 100 m
- Ventilation system with 70 % heat recovery
- KNX controls the heating system, indoor temperature, ventilation and indoor air quality
- Various home automation packages available for control of blinds, lighting and security features ensuring convenient operation
- Energy saved: € 22,400/year

### System integrator

Domoticarea Srl, Isera,  
www.domoticarea.com

Like other designs by Italian architect Giorgio Volpe, the residential complex of Podgora Residence in the city centre of Bologna, Italy, has a strikingly original appearance and is highly energy-efficient. The previous building at this location was 47 years old and housed a post office and a car dealership. The new building, in comparison, consists of 24 residential units that blend elegantly into the surrounding cityscape. There are studios and one-bedroom flats on the ground floor, and spacious maisonettes above. The building itself has a timber structure that is designed to provide maximum thermal insulation, while an innovative geothermal heat pump supplies residents with low-cost heating energy. The building services are controlled by KNX, which helps to save the occupiers a total of € 22,400 in energy costs each year. System integrator DomoticArea Srl from Isera submitted the project for the KNX Award competition, as a result of which it was nominated for an award in the Energy Efficiency category.

### Costs cut by half

The usage of the standardized control system KNX halved the installation costs: the system costs amounted to € 40,400 in comparison to the original estimate of € 80,000. The reasons for this are; an easy way of installation, which in combination with the ability of linking up all the trades in a building and the diverse possibilities for easy modification of the functions, show that energy efficient buildings can hardly afford to do without KNX, the worldwide standard for building control. Also, the solution is much more intelligent, convenient, and energy-efficient. Instead of just one central thermostat per flat, there are two time-controlled thermostats plus CO<sub>2</sub>, humidity and temperature sensors in every apartment, creating a pleasant indoor climate highly efficient. KNX also sends information to the central heating system, to which the heating and cooling circuits respond by supplying just the right amounts of heat and cool to the flats. The energy required for this comes free of charge from

the geothermal probes underneath the building's foundations. Any waste heat generated during ventilation is recycled and likewise used in the building.

### Convenience comes in packages

This efficient building services concept made the flats at Podgora Residence very attractive to environmentally conscious buyers. As a result, all apartments were sold a year before they were even completed. Owners were able to choose from a selection of packages, each offering a different combination of comfort, security and energy efficiency; e.g. The 'Comfort Package' besides the lighting control, provides the possibility for load breaking in the sleeping area and the possibility of a central deactivation of all loads when leaving the flat. In this package, the blinds are controlled from a weather station according to the available amount of solar irradiation. The system responds differently depending on whether the inhabitants are at home or not: when they are in the flat,

glare protection is the priority. When they are out during the cold part of the year the blind control system strives to channel solar heat into the flat and to seal out the cold. When they are out on a hot day, automatic shading keeps the interior cool. The 'Supervision Package' lets the whole family control all the building automation functions – including home entertainment equipment – with ease from an iPad, iPhone, tablet or smartphone. The 'Security Package' additionally lets one monitor the technical equipment and power consumption and includes a burglar alarm system. When the alarm is armed, it automatically activates an energysaving 'Economy Program'. Podgora Residence is the first highenergyefficiency building in the provincial capital of Bologna to receive 'Casa Clima A+' certification. Besides its eco-friendly design, its efficient heating system and its efficient air conditioning and ventilation system, the building also features an efficient requirement based energy consumption in all field of the building services.

## High efficiency ensures self sufficiency and comfort (Chile)

KNX keeps electricity and water consumption low in autonomous villa



Model view of Casa Maxima. This self sufficient building is controlled by KNX to ensure that all energy generated is used efficiently.

Casa Maxima is a comfortable 608 m<sup>2</sup> villa, built in 2011 and located near the city of Los Andes at the foot of the 7,000m high Andes mountain range. Because of its location far from any public utility networks, it needs to generate its own energy. The villa's building services need to be extremely efficient to ensure that the building has enough heat and water throughout the winter and during dry summer weather. Its electricity comes from the own photovoltaic system combined with a storage system. A heat pump system supplies heating and cooling that are required for the air conditioning system. Water from the surrounding countryside is prepared prior to use and afterwards recycled for multiple reuse. Hot water is provided by a solar thermal system. The efficient use of energy does not only save money, but it also ensures that the building is usable and comfortable for the

inhabitants. And this can only be achieved with a control system that spans all trades in the building. On this base, following consultation with system integrator Action Systems from Santiago of Chile, the building owner decided to use KNX. The project was nominated for the Energy Efficiency Award.

### Trades working together

The internationally recognised bus system KNX, controls and monitors all of the villa's lights, its solar control equipment, various functions of its heating, air conditioning and ventilation systems, its building services, and its alarm system. One factor speaking in favour of KNX was the estimated 20 % energy saved by demand based control of heating and air conditioning. KNX facilitates the interplay of heating, air conditioning and ventilation systems, blinds, and fresh air supply like

no other system, and ensuring a pleasant indoor climate at all times in summer and winter alike. Apart from allowing automated control of equipment via temperature, (relative) humidity and CO<sub>2</sub> sensors, weather sensors and timers, KNX can also be used to operate room functions manually in order to meet users' specific requirements. Naturally safety functions always take precedence over other automatic and manual actions.

### Management system safeguards reserves

The building is fitted with a technical monitoring system that detects faults at the earliest possible stage and automatically sends alerts about these to the relevant safety and security services. It also features a KNX based management system that uses smart meters in order to monitor energy consump-

### Highlights at a glance

- Villa is self-sufficient for electricity, heat/cool and water
- The building's KNX system spans all trades, including lighting, HVAC, technical monitoring, burglar resistance functions, and a fire alarm system
- 20 % lower energy use thanks to automatic control of heating and ventilation
- Load, energy and water management system that safeguards contingency reserves
- Display allows monitoring and control of the system while on the move

### System integration

Action Systems, Santiago de Chile, Chile,  
[www.actionsystems.cl](http://www.actionsystems.cl)

tion but hot and cold water consumption as well. Based on this, the building's resources are managed, stored and treated accordingly, always keeping some in reserve. The watering system in the garden uses greywater from the house, and only in small quantities, because it is activated automatically by KNX humidity sensors.

A CCTV system and an alarm system protect the property from burglaries and fire; door and window sensors, motion sensors and fire detectors automatically transmit relevant alerts to the safety and security companies via a central server. Users can monitor the entire building automation system from a display on the server. The system can also be accessed remotely, via a tablet PC or smartphone while on the move, if desired. There are 600 KNX components in total in the house, and the system integration cost € 60,000.



## Intelligent architecture, intelligently controlled (Belgium)

KNX for efficient facilities management



Behind the contemporary architecture, KNX provides energy efficient building automation.

The historic buildings in the Flemish city of Kortrijk have made it a popular destination for visitors. Not so many people know that it is also the secret design capital of Belgium. The AVC Inspiration Centre in Evolis boosts the city's design credentials in two ways: firstly because it manufactures and sells aluminium and glass products for use in stylish contemporary interiors, and secondly because of its elegant new 9,000 m<sup>2</sup> and state of the art company building. The architecture of this four-story building with its fully glazed facades sends out a clear message about the company's products. Its bright, open plan indoor areas including foyer, showrooms, offices and production area create a welcoming impression for employees and visitors to the company. From the energy consumption point of view, the building design is noteworthy as well as its building services, which include a heat pump system for the heating, a ventilation system, solar dependant control feature, and convenient lighting functions.

Its KNX based building services management system realised by Domotic Lounge was nominated for the KNX Award Energy Efficiency 2012.

### Mini touch screens for ease of operation

For maximum energy efficiency, buildings of this type need to be able to adapt to changing weather conditions. They must be able to find the right balance between heating from the sun and daylight, together with cooling and proper ventilation at any given time. Therefore, its HVAC equipment, indoor temperature, solar control system, safety and security functions and artificial lighting need to respond automatically to external influences. Thanks to KNX, the system integrator was able to meet all these criteria for this project. The standardized KNX installation bus links up the entire HVAC system, including boiler, heat pump and air conditioning and ventilation equipment, with the rest building automation system. In this way heating

and cooling in the building can be controlled highly efficiently throughout the offices, meeting rooms, showroom, bar and multipurpose room. The indoor climate conditions in the property can be controlled conveniently via mini touch panels featuring room temperature controls. Lighting in the various rooms can be operated from multifunctional controllers. In areas where artificial lighting is needed only sporadically, there are motion sensors to ensure energy efficient lighting use. Constant lighting control in the warehouse area using DALI with interface to KNX also promotes energy efficiency. The outdoor lighting is controlled by a combination of twilight sensors and timer. The building's solar dependant control equipment is controlled via a central weather station that supplies the system with data on brightness, outdoor temperature, wind and rain. The weather station also determines the amount of heating (in winter) or cooling (in summer) required, and the amount of daylight available.

### Highlights at a glance

- Building automation system for company building including offices and production area
- Integration of all trades
- Demand-based control of HVAC technology
- Efficient lighting indoors and outdoors
- Convenient to operate, via 8 KNX mini touch panels
- Linked to TCP/IP access control system
- Smart metering applications monitor energy consumption
- Centralised control via a display on a wireless touchpad/ authorized computer
- KNX components: 171
- Installation costs: € 72,475

### System integrator

DOMOTIC.LOUNGE, Daevy Vanstaen, 8501 Kortrijk-Heule, [www.domotic-lounge.be](http://www.domotic-lounge.be)

### Energy consumption at a glance

The building also uses smart meters that play a vital role in ensuring efficient energy use: they permanently monitor and record the amount of power consumed by heating, air conditioning and lighting systems, by coffee machines and by equipment in standby, on the basis of which any necessary optimization steps can be taken. When work is finished for the day and the burglar alarm is activated, all unnecessary electrical loads are automatically switched off. The operating status of all trades in the building can be monitored via a wireless touchpad or an authorized computer. The operating display can also be used for accessing the building's TCP/IP access control system, for example to switch the lights on or off in specific access areas as needed – another feature designed for maximum energy efficiency.

## Unique in Limas Metropolis (Peru)

Automated LED lights bring out the best in architecture and grounds



Every evening a perfectly tailored KNX-controlled lighting system brings out the best in the development's contemporary architecture.

The 5,000m<sup>2</sup> residential development Condomino El Polo, in the Peruvian capital of Lima, was built in 2011 and houses a selection of comfortable apartments. It has been built to meet Green Building criteria; after all, like elsewhere in the world, environmental protection and resource efficiency are important topics in this huge Latin American city. The developer of the project applied for Leadership in Energy and Environmental Design (LEED) certification, which is awarded internationally to construction projects that meet tough sustainability criteria. The development consists of several blocks housing a total of 173 flats, surrounded by 2,000m<sup>2</sup> of grounds. There is also a recreation area including swimming pools, a barbecue area, playgrounds, a gym, and a meeting room. In the evening, 800 LED lights create a safe environment and

lend the quiet, clean green spaces around the buildings, an inviting atmosphere. The automated and therefore energy efficient lighting control system was realised by the electrical installation company Conauti using KNX devices. It is the only one of its kind in Peru, and was nominated for the Energy Efficiency Award 2012.

### Lighting control uses amount of daylight

One objective of the lighting control system was to keep the terraces, paths, plants and trees in the grounds and the communal areas illuminated at a constant level from dusk onwards. However, it also needed to bring out the best in the architecture of the buildings and the greenery in the grounds by effect-illuminating. And it needed to achieve the most energy efficiency. To meet these objectives, the system integrator

for the project decided to employ constant lighting control: this uses KNX twilight sensors to determine the amount of daylight available, which then gradually turn the intensity of the LED lamps up from 0 % (in full daylight) to 100 % (when it is completely dark). A 365 day timer turns the lights off during sleeping hours, but a basic level of lighting remains, to ensure

### Highlights at a glance

- Well-appointed residential complex consisting of 173 apartments and grounds
- 800 LED lights create a safe environment and a pleasant atmosphere in communal areas
- KNX lighting control system with constant lighting control and 365 day timer
- Uses considerably less electricity than conventional solutions
- Installation costs: \$15,000

### System integrator

Lois Suarez Chalco, Conauti, Lima, [www.conauti.com](http://www.conauti.com)

### Owner

Promotora Inmobiliaria Shamrock Peru

that thoroughfares continue to be safely lit. In the early morning the lighting is then switched fully on again – provided that it is still sufficiently dark – and gradually dimmed as the level of daylight increases. This automated system means that substantial energy savings can be made compared to a conventional lighting control system.



## Model energy efficient school (Dubai)

Building automation optimises learning environment



A new campus in Al-Barsha for the American School of Dubai

The American School of Dubai is more than 40 years old. Two years ago it moved to a new campus in Al-Barsha that sets standards for the whole region: spanning 92,900 m<sup>2</sup>, it consists of six modern school buildings, various sports and art facilities, and a range of outdoor areas including green spaces. The school's 1,600 pupils at primary, middle and high school level enjoy ideal learning conditions in their new, spacious classrooms, thanks largely to the new building services, which are controlled by a thoroughly automated KNX based system. By choosing KNX, the worldwide standard for building control, the building owner was able to meet all criteria – for example high energy efficiency, ease of installation, flexible technology and low investment risk – to perfection. The project, realised by the electrical installation company Total Automation, was nominated for the Energy Efficiency Award.

### 45 % lower electricity use

All lighting on the campus – or 3,500 lighting circuits in all – is controlled automatically via KNX. Even in the classrooms, this reduces energy consumption by 45% compared to conventional solutions. Presence detectors are fitted, which

only allow artificial lights to be switched on when there is insufficient daylight and there are still people present in the building. In the corridors and stairwells, ultrasonic motion sensors connected to KNX via binary inputs ensure that lights are only switched on full when people are present. If they wish, the employees and the teachers can however switch the lights on manually using key switches or multifunction buttons in classrooms, or mini panels in staff rooms. Similarly, it is possible to raise and lower the automated blinds manually, or manually adjust them for an optimal balance of shade and light. The climate conditions in the rooms are also controlled automatically thanks to KNX room temperature controllers which keep the climate constant. The three speed fancoils can also be adjusted manually if desired.

### Energy management for guaranteed efficiency

After school hours, motion sensors and the CCTV system are activated both indoors and outdoors to keep an eye out for intruders. Alerts are automatically transmitted via a KNX GSM gateway to a security company. If any luminaries fail, this is determined by electric current detection

and pop-ups appear to notify the user. The school's energy management system plays a key role in making sure life at the school is energy efficient. It accesses the school's electronic timetable and switches the indoor and the outdoor lights on and off according to a timer; defines target values for the indoor climate conditions, and adjusts solar dependant control equipment accordingly. All technical functions are monitored and controlled via the panel on the central server. Starting from the user-friendly homepage, users can access functions right down to classroom level. From one of the generally accessible panels, everybody can view information or operate equipment in their immediate vicinity; from the central PC in the utility

#### Highlights at a glance

- 92,900 m<sup>2</sup> campus for 1,600 pupils
- Greater energy efficiency due to building automation
- KNX controls and monitors the lighting, the blinds and the air conditioning functions
- Burglar alarm and technical monitoring
- Central display with remote monitoring
- Interface to other systems via KNX/BACnet gateway
- More than 45 % less energy used
- KNX components: 1,230
- Installation costs: € 700,000

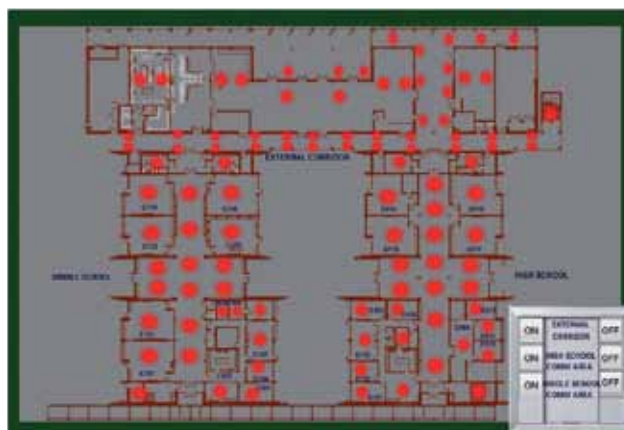
#### System integrator

Total Automation, Tejpreet Singh Dhawan, Dubai

room, it is additionally possible to modify target values, program timers and to combine lighting scenes.



Pupils at the American School of Dubai. KNX is in charge when it comes to the building services – that ensures maximum energy efficiency.



Example display screen: Monitoring and control options for the ground floor.

# The brand provides what it promises (Swiss)

KNX controls and monitors all energy relevant functions in low energy houses



KNX based controls and analysis of energy consumption data have resulted in considerable energy savings at Villa Minergie.

Minergie is the Swiss energy standard for low energy houses, and is synonymous with sustainable construction. An energy efficient building envelope and an energy efficient building automation helps to become certified. Important feature of the brand is the systematic air change that keeps heat loss to a minimum. Last but not least, Minergie buildings also need to be fitted with state of the art control systems to ensure that their energy consumption adheres to – or ideally falls below –

the applicable limits. The system integrator for Villa Minergie in Eysins (in the canton of Vaud near lake Geneva in Switzerland), chose the KNX bus system to control the building services in this project. As a result, it has been possible to add to and optimize the energy relevant functions of the building constantly since it was completed in 2007. The system swiftly detects any technical failures, allowing them to be quickly rectified. The project is therefore an excellent example of the energy efficiency, flexibil-

ity and low investment risk associated with KNX, which is why it was nominated for the Energy Efficiency Award.

## Basics of building automation

Basic functions of the KNX infrastructure in the introduced project are functions for energy savings, facilitation of solar dependant control, and enhancement of comfort, convenience, safety and security. In areas that are used only sporadically, for example, such as corridors, toilets and outdoor areas, motion sensors automatically switch the lighting on and off as required. Scenarios for the lighting in the living room and the lighting, darkening and projector in the home cinema can all be conveniently controlled. A weather station with various sensors ensures that the blinds automatically provide shade when the sun is bright and are raised when the wind increases, roof windows close when it starts to raining, and shutters are lowered in the basement in the evenings. The basic equipment of the KNX system includes also safety and security functions such as burglar and fire alarms. Users can receive notification alerts from the alarms by text messages.

## Efficient ventilation

In 2010/2011, more functions were added to the KNX system to make the building even more energy-efficient: individual room temperature control, control of supply temperature, modification of the relationship between outdoor temperature and supply temperature, and recording and analysis of all heating parameters using the 'myhomebox' management

## Highlights at a glance

- Low energy detached house meeting the Minergie standard
- KNX controls all building services
- Efficient heating thanks to room temperature control, supply temperature control, and automatic modification of relationship between outdoor temperature and supply temperature
- Less heat lost thanks to systematic ventilation that responds to temperature, humidity and CO<sub>2</sub> levels
- Automatic blind/shutter control
- Documentation and optimisation of energy consumption
- Safety/security monitoring
- Remote control via internet
- KNX components: 109
- Cost: CHF 12,000

system. The building's systematic ventilation was also optimised with the help of KNX; KNX sensors monitor temperature, humidity and CO<sub>2</sub> levels in order to maintain good indoor air quality while making ventilation as energy efficient as possible. This system features a number of sophisticated technical features including three ventilation speeds which are selected depending on the CO<sub>2</sub> content of the air; recording and display of power consumption data; and remote monitoring and control from an iPad or iPhone. KNX is also useful for checking on the garden pond, monitoring functions that require a high level of maintenance, and controlling the home cinema equipment. Moreover, it can save considerable amounts of money by permitting analysis of the resources consumed by space and water heating, ventilation, and demand based pump operation.



On the display, the users can view details of energy consumption (shown), heating parameters, and air quality data.



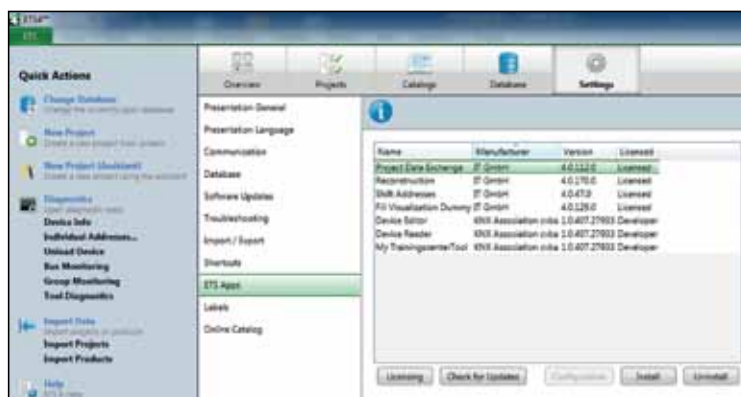
# ETS Apps – A success story

It has already been one year since the first launch of the ETS App concept by the KNX Association. This is a success story, which proves that only open technologies and open software, like KNX and ETS can really offer flexible solutions to their users. We all know that ETS4 is Easy, Fast and Open. Easy because the user-friendly environment and the high number of wizards, smart filters and automatic functions make the design of a KNX project in ETS4 a fast procedure. Fast, because due to the XML format and the improved background mechanisms, ETS4 is almost three times faster than its predecessor. However, what is exactly the meaning of the term 'Open'? 'Open' stands for a software tool that can export its data so that it can be used by other software tools or systems. Moreover, it also stands for a software tool that is not limited to a specific number of functions, but on the contrary; it can easily be extended so that it can be adapted to each user needs.

And this is the reason why the ETS Apps have become a success story. Because they offer to the ETS users what they really need in order to work efficiently by decreasing the necessary time for designing a KNX project to the minimum.

## ETS App – Extended Copy

A very characteristic example of the minimization of the working time on a KNX project in ETS4 is the ETS App 'Extended Copy', which is offered by the KNX Association in the KNX Online Shop. Experience has proven that in the majority of the KNX projects the design steps are repeated with only small changes (e.g. changing the suffix of the group addresses or assigning the new modified group addresses to similar types of devices) in order to complete a project. Therefore, in order to speed up and facilitate the designing procedure for the KNX integrators, we launched the ETS App 'Extended Copy', by means of which copying and modifying structure, elements, or properties of a project can be automated in such a level that only a few clicks can create a complete hotel project with hundreds of rooms and functions or a residential building within a few seconds.



## The functionality

This ETS App is very powerful and the extended copy functions make it possible to copy complete project areas (lines) with the ability to influence every element that has to be copied along with its properties (including amongst others the assignment of individual addresses) at the destination. Consequently, this also includes 'layers' below the element to be copied, such as lines in the topology, when entire areas are copied. Moreover, the number of desired copies for the bundle of settings can also be selected. Some of the general parameters of the copy options are the following:

### Rename:

This includes methods for text replacements, e.g. for lines or building names. The available options are:

- No Renaming, which leaves the text unchanged

- Text, which replaces a text (e.g. 'A') with another text (e.g. 'B'); other text apart from the entered one (i.e. 'A') is ignored and remains unchanged when replacing.
- Regular Expression, which is an option for complex text replacements using a character string to describe a group of characters.

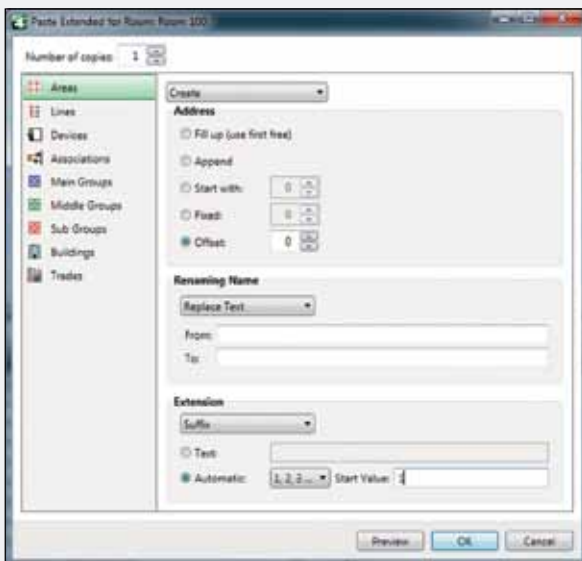
### Extension:

This includes methods for text adding, either as suffix or as prefix. The available options are:

- None, which leaves the text unchanged
- Prefix, which adds either a text or number prefix in front of the current (original/renamed) text. The numbering option allows also a starting value.
- Suffix, which adds either a text or number suffix after the current (original/renamed) text. The numbering option allows also a starting value.



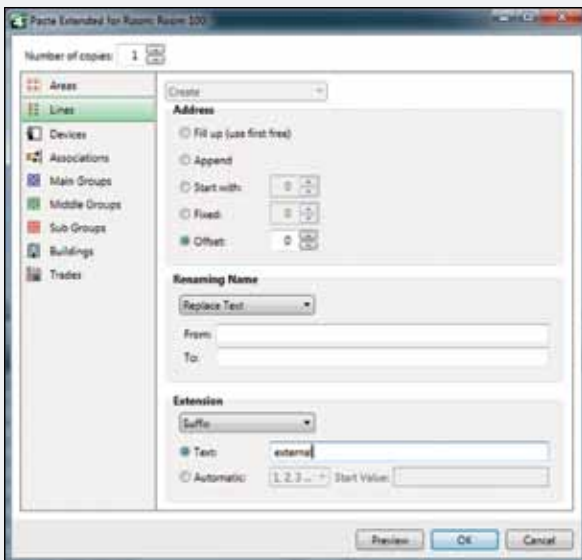
## Setting parameters for copying ...



### Setting parameters for copying Areas

In the 'Areas' section a user can define the parameters for copying existing areas with their contents in a project. This is the highest level of the Topology copy hierarchy and can include:

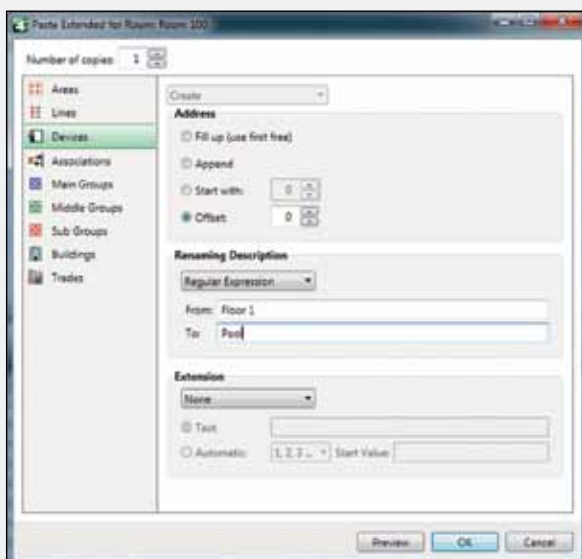
- Areas
- Lines
- Devices with their associations (with new Group Addresses if necessary)
- Buildings
- Trades



### Setting parameters for copying Lines

In the 'Lines' section a user can define the parameters for copying existing lines with their contents in a project. This option can include:

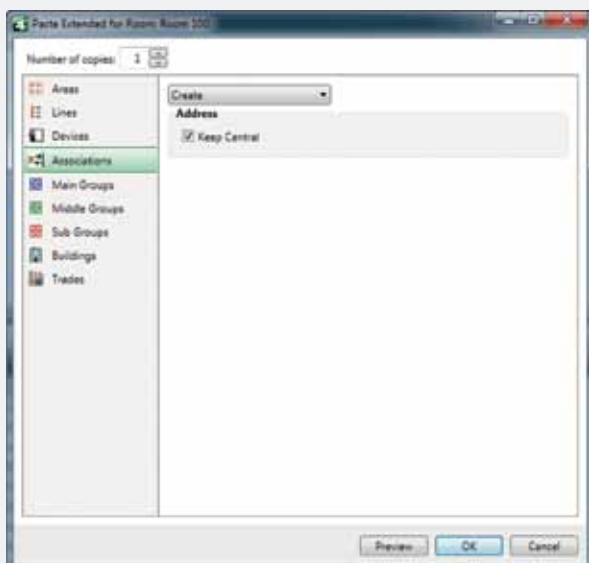
- Lines
- Devices with their associations (with new Group Addresses if necessary)
- Buildings
- Trades



### Setting parameters for copying Devices

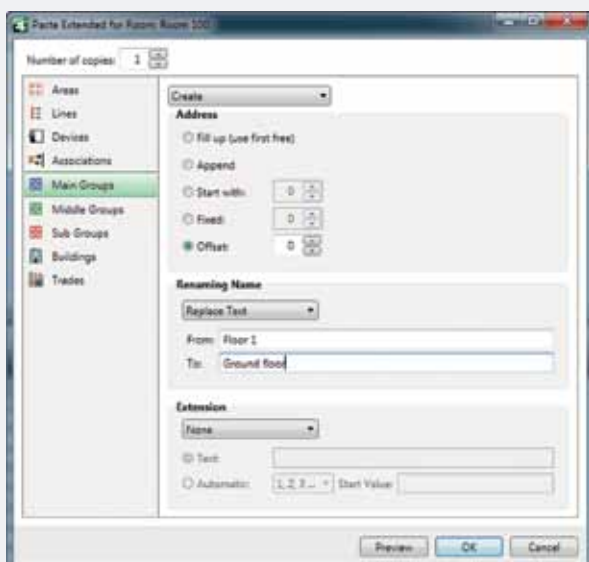
In the 'Devices' section a user can define the parameters for copying existing device(s) in a project. This option can include:

- Devices with their associations (with new Group Addresses if necessary)
- Buildings
- Trades



### Setting parameters for copying Associations

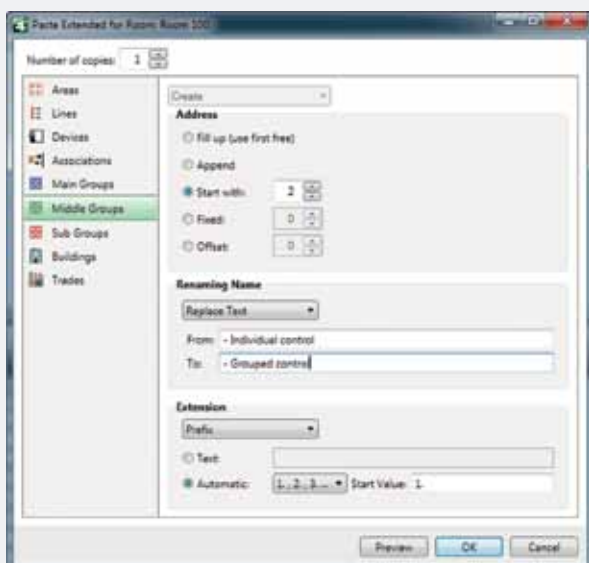
In the 'Associations' section a user can select whether he wants to copy the Group Addresses that are characterized as 'Central', or create new.



### Setting parameters for copying Main Groups

In the 'Main Groups' section a user can define the parameters for copying existing Main Group Addresses with their contents in a project. This is the highest level of the Group Address copy hierarchy and can include:

- Main Group Addresses
- Middle Group Addresses
- Sub Group Addresses

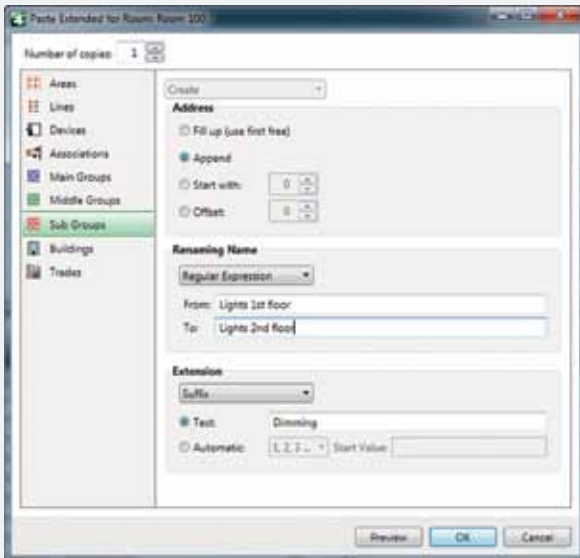


### Setting parameters for copying Middle Groups

In the 'Middle Groups' section a user can define the parameters for copying existing Middle Group Addresses with their contents in a project. In this level, the copy can include:

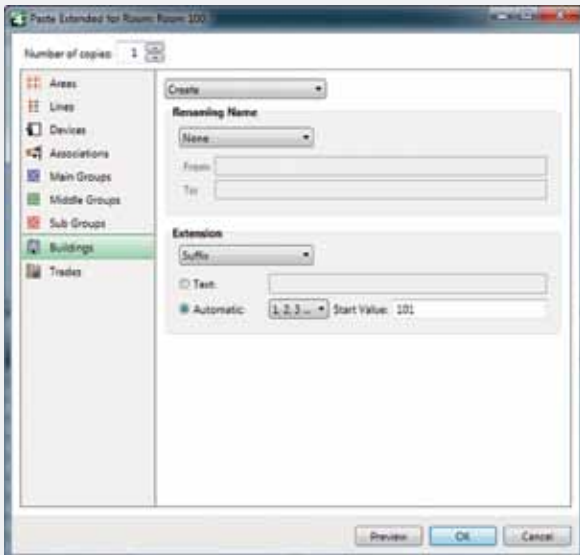
- Middle Group Addresses
- Sub Group Addresses

## Setting parameters for copying ...



### Setting parameters for copying Sub Groups

In the 'Sub Groups' section a user can define the parameters for copying existing Sub Group Addresses in a project.



### Setting parameters for copying Buildings

In the 'Buildings' section a user can define the parameters for copying existing Buildings, Building parts, Rooms, etc.

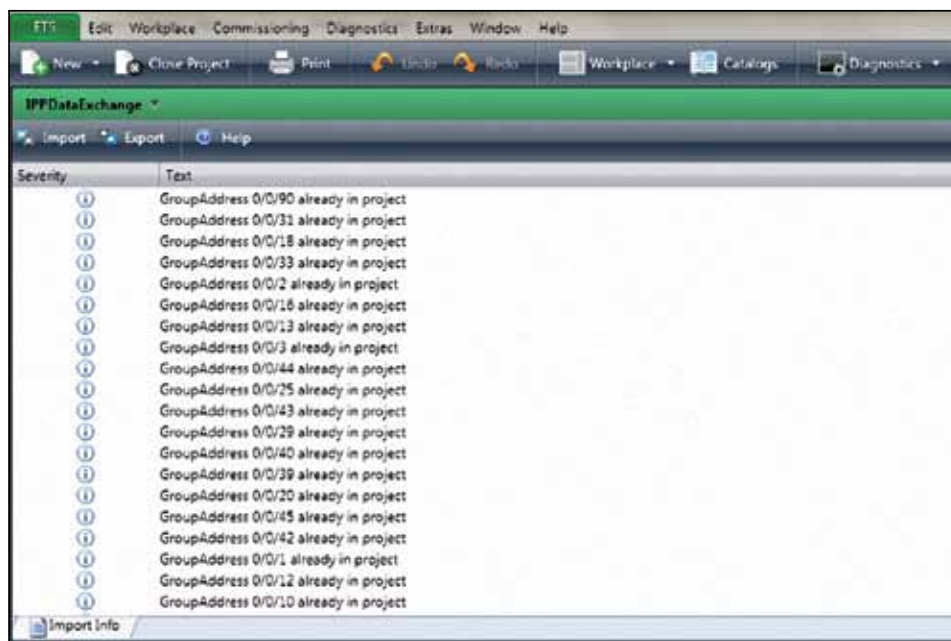


## New ETS Apps

You can find all ETS Apps at [www.knx.org](http://www.knx.org) → KNX Tools → ETS Apps → Features

### Busch Jaeger Elektro Export for IP-Project

This ETS App is intended to exchange Group Address information of Busch-ComfortTouch® panels from Busch-Jaeger or ABB between ETS and IPP. The ETS App provides IPP data with recent changes in ETS and vice versa ETS data in IPP. By pressing the import button you can import XML files that have been created by IPP into ETS. Using the export button one can generate an XML file for import into IPP.



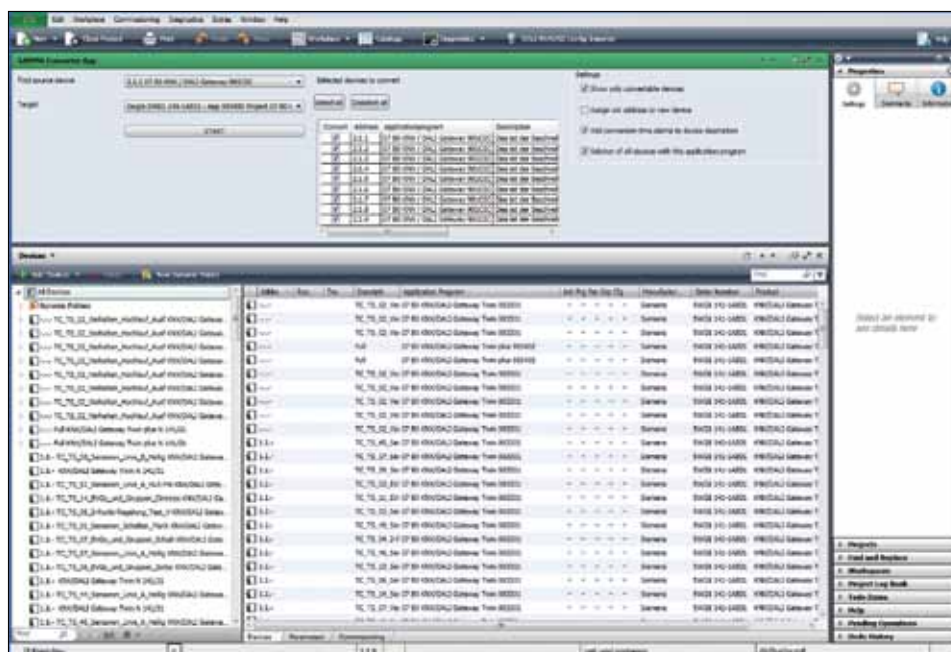
### Siemens AG GAMMA Converter App

GAMMA Converter App is used to exchange applications of Siemens products automatically.

It expands the basic functionality of the GAMMA Converter Tools with the feature to exchange the application within the ETS automatically. Therefore the App uses the KNX converter library of Siemens for converting the data, that can be downloaded for free.

The exchange of applications is possible in case of a single product or from more products to one product.

More information about supported applications and products: <http://www.siemens.com/gamma-converter>



## New Members



### INDIA

#### Automation Specialists India PVT LTD



Automation Specialists was founded in 2000 with their head offices in Dubai and has more than 12 years of experience in the KNX Industry. In 2010 they started their operations in India with KNX projects nationwide. Automation Specialists India has now offices in Delhi, Mumbai, Bangalore and Cochin. In total they have completed

more than 300 projects in the Middle East and India and were been nominated for a KNX Award in 2010 and for 2 KNX Awards in 2012. They are planning to develop their own KNX compatible products.

**Contact:** [www.asinindia.com](http://www.asinindia.com)

### ITALY

#### BPT s.p.a. a Socio Unico



BPT is a privileged partner capable of offering a full range of systems and cutting-edge technical products which are compatible with automation and video entry systems, access control, heating control, security and LED lighting. The development of advanced home technology systems requires the latter to be increasingly flexible and simple. BPT looks to the future with the view to anticipate technological evolutions for the big challenge of the 'intelligent environment'.

System integration, digital technology and energy saving are the developing focus for the achievements and growth of BPT. The conquest of new spaces: BPT's technology is venturing outside the confines of home and single building into wider-ranging areas like residential centres, villages and urban areas.

**Contact:** [www.bpt.it](http://www.bpt.it)

### CHINA

#### Bridges Electronic Technology PTY LTD



Bridges Electronic Technology PTY LTD (Dynalite China) is a worldwide leading manufacturer and solution provider in the high-end lighting control industry with headquarters located in Sydney, Australia. For 18 years, Bridges has been focusing on building a perfect lighting environment and improving lighting management technology. In this way, Bridges has strengthened its global leading position in the lighting management industry. In 1995, Bridges was the

first company that introduced an intelligent lighting control system in China. Since then, Bridges has been providing more innovations and solutions such as lighting control, remote monitoring, environment control, resource management, security control, intelligent green control and other integrated solutions, creating more value for its customers.

**Contact:** [www.dynalite-china.com](http://www.dynalite-china.com)

### ITALY

#### ClicHome



ClicHome has been the reference point for the KNX world in Southern Italy since 2005. Since 2010 they have been operating in Italy and foreign countries from their new office in Rome, both as a system integrator and distributor or reseller of KNX products. Since 2005, ClicHome has not just sold products, it sells systems. This is the reason for its success confirmed by the customers' loyalty. When you turn to ClicHome you

can count on excellence and competence of a technical staff that is able to support you from the design to the commissioning of a new system. The whole process was standardized and perfected with only one aim: to achieve perfect systems without any glitch, without any rub.

**Contact:** [www.clichome.it](http://www.clichome.it)

### SOUTH KOREA

#### COMMAX



COMMAX was the first in the field to export the door phone in Korea. At present, COMMAX is a registered trademark in over 120 countries, mostly under the 'COMMAX' brand. COMMAX became one of the leading export enterprises advancing from emerging markets to every corner of the world. In 2004, COMMAX won the 50 million Dollar tower of export from 'KIT A' and was selected as the world class product (ministry of commerce, industry and energy in

Korea) in 2003. COMMAX is recognized as a global top brand in all fields. That is why COMMAX was selected as one of the 50 enterprises on excellent quality competitiveness, the excellent export enterprise, and won the iF Design Award, consumer trust award. The CEO of COMMAX was also selected as one of the excellent global CEO's in Korea.

**Contact:** [www.commax.com](http://www.commax.com)

## BELGIUM

## Elbex Technologies



Elbex Technologies is the official daughter company of the Elbex Holding, mainly active for distribution in the Benelux, as well as worldwide service for the group. Elbex Technologies is a part of the Elbex Japan group which has been a Residential Automation Optic System for the past 10 years, which is based on using Polymer Optic Fiber cable to transmit various commands. The Elbex System also provides detailed consumption reports from every electri-

cal switch and socket. Elbex Technologies plans to provide compatible gateways for the Elbex System to be also controlled by KNX controllers. Elbex Technologies is specialized in the production and distribution of advanced audio and video technologies in the world of security, processing video- and interphone systems with integrated home automation.

**Contact:** [www.elbextechnologies.com](http://www.elbextechnologies.com)

## TURKEY

## EMT Controls



EMT Controls Electronic (Izmir, Turkey) is committed to the design and manufacture of outstanding quality products to create glamorous touch panel solutions that would fit in ultra luxury environments, serving the world's best hoteliers such as the Ritz Carlton, Capella, and Falkensteiner. EMT Controls produces extremely reliable products that are incredibly easy to use even at a glance. EMT Controls serves as a private

tailor to architects and interior designers to form unique environments. Although mainly focused on competitively priced KNX and other systems compliant Touch Panel solutions, the company also manufactures OPC friendly multi-protocol gateways supporting numerous physical layers.

**Contact:** [www.emtcontrols.com](http://www.emtcontrols.com)

## GERMANY

## EUROtronic Technology GmbH



The medium sized family company of EUROtronic has grown steadily since its foundation in May 1998 into a market leader in electronic radiator controllers. Products are manufactured in their own plants in Hessen. The aim is to develop and produce high quality products that also focus on being user friendly. Sophisticated technology and high quality products make them valu-

able helpers throughout the day at a good price/performance ratio. Great emphasis is placed on the latest technical standards to meet and comply with all safety and environmental regulations, and to ensure a long product life.

**Contact:** [www.eurotronic.org](http://www.eurotronic.org)

## USA

## Gefen LLC



Gefen is a leading solutions provider at the forefront of the digital connectivity area, delivering a wide selection of audio/video switchers, splitters, extenders, scalers, converters, adapters, cables, digital signage solutions, home theater accessories and home automation systems that support consumer, industrial and commercial applications of all shapes and sizes. Gefen leads the way in harnessing new technologies – including home automation – while increasing its val-

ue added proposition through outstanding customer service and technical assistance. Gefen has recently ventured into the home automation with GAVA, the industry's most versatile control system that incorporates virtually any device and uses an HTML5 interface optimized to work on smartphones and tablets.

**Contact:** [www.gefen.com](http://www.gefen.com)

## GERMANY

## Heinemann GmbH



For 20 years Heinemann has been distributing Vallox heat recovery ventilation units for residential (flats, row houses, single family houses) and partly also non-residential (class rooms, offices, ...) buildings to the German market. More than 10 years ago Vallox introduced a KNX module for adjusting, controlling and monitoring their units with digital control, at that time Heinemann also 'stepped' into the KNX world. Now with a

wider range of HRV units, Heinemann decided to have their KNX module for the different product lines be more flexible. The modules so far are installed in single family houses as well as in commercial applications like schools, kindergartens, offices and so on.

**Contact:** [www.heinemann-gmbh.de](http://www.heinemann-gmbh.de)

GERMANY

**Helios Ventilatoren GmbH + Co KG**



DIE MARKE DER PROFIS

Helios stands for ventilation technology of the highest quality for every application: from compact small fans on ventilation systems with and without heat recovery to complex solutions for industrial and commercial applications. Large fans with flow rates up to 2.2 million m<sup>3</sup>/h and solutions for building services complete the range. Part of the product philosophy are intuitive user interfaces for an easy use. This includes the integration of Helios ventilation systems in

building control systems using KNX application modules to further maximize comfort. Helios is one of the leading manufacturers of ventilation equipment. Next to the headquarters in Villingen-Schwenningen, the company operates nationwide with approximately 25 sales offices in Germany and with offices and subsidiaries in over 20 countries in Europe.

**Contact:** [www.heliosventilatoren.de](http://www.heliosventilatoren.de)

GERMANY

**Hermos AG**



HERMOS is an international group of companies active in the fields of automation and information processing. Headquartered in Mistelgau and present in eleven other national and six international locations, HERMOS plans and implements automation and integration solutions for buildings, facilities, industry, energy and environment. HERMOS offers all services under one roof: design

and engineering, software development, industrial manufacturing of switchgear, commissioning and service. HERMOS covers all performance areas of a project life cycle. The HERMOS group consists of approximately 460 employees. At its headquarters in Mistelgau, HERMOS employs about 250 people.

**Contact:** [www.hermos.com](http://www.hermos.com)

AUSTRALIA

**KNX Engineering Pty Ltd**



KNX Australia Pty Ltd is a newly established company in Australia that specializes in providing turnkey solutions to clients in the residential, commercial, industrial and mining sectors. The new showroom at 18 Chester Street, Fortitude Valley in Queensland, is the first of its type in Australia offering a fully working display on various KNX solutions and products available across all market

segments. Located within the showroom, is the KNX training facility, which will offer full KNX training to engineers, integrators and electricians. They currently have four KNX manufacturers showcasing their equipment in a fully functional environment.

**Contact:** [www.knxengineering.com](http://www.knxengineering.com)

POLAND

**LARS Andrzej Szymanski**



Since the company's founding in 1984 by engineer Andrzej Szymanski, LARS developed from gas heating systems to temperature controllers and pump controllers (formerly known as Euroster). Over the years the company's product line has been enriched with air conditioners, biometric locks, lightning tests and measurements services. LARS specializes in high class, technologically advanced home automation devices.

The company has broad experience and they are constantly improving their achievements. Their home automation products are unique, hi-tech and will improve quality of life of its users and lower heating costs. Auraton home automation devices stand for ecology, savings and user comfort. They are aiming to integrate their devices with KNX.

**Contact:** [www.lars.pl](http://www.lars.pl)

GERMANY

**lesswire AG**



lesswire AG is a professional service provider developing embedded wireless solutions and products to OEM customers. lesswire AG has been building up expertise in the hardware field, attaining a market-leading position in the development of Sub-Gigahertz, Bluetooth and WLAN systems

and modules. lesswire AG is a company that considers itself a market pioneer, with wireless data transmission combined with location awareness and mobile terminals in wireless environments.

**Contact:** [www.lesswire.com](http://www.lesswire.com)

CHINA

**MIDEA Heating & Ventilating Equipment CO.LTD.**



Midea Heating & Ventilating Equipment CO.LTD. is the leading manufacturer of commercial air conditioning solutions in China. Since 1999, MIDEA has contributed to the R&D and innovation of technologically based commercial solutions. Cooperation with leading global enterprises coupled with independent R&D has enabled MIDEA

to implement thousands of commercial air-conditioning projects worldwide. Nowadays, MIDEA is experienced in the field of green smart building. It is proud to join the members of KNX Association to provide a total solution based on KNX technology.

**Contact:** <http://cac.midea.com>

UK  
Qing Cables Ltd



Qing Cables has over 25 years of successful trading behind it, and pride on striving to offer a service that is second to none. Their stock profile has expanded organically; Audio Visual and bus cables including KNX cable sit alongside the wide range of communication cables they have always held. Large inventories held in the Cheltenham warehouses enable them to satisfy the vast majority of orders immediately. Their aim is to manage the cable requirements and they will work closely with the customers to find

the best and most cost effective solution possible. Deliveries to multiple branches, and discrete direct to site deliveries are a day to day occurrence. Accurate stock availability and delivery dates are imperative to you. Their ISO Quality Management system has been running since 1991 and has helped shape them into the service led company they are today.

**Contact:** [www.qingcables.com](http://www.qingcables.com)

USA  
Remote Technologies Incorporated

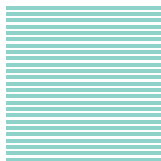


Remote Technologies Incorporated is a leading control systems manufacturer offering innovative, sophisticated, and user-friendly devices for professionally installed electronic systems. The company's wide array of award winning handheld and in-wall universal controllers, central processors, audio distribution systems, and accessories are marketed exclusively through a worldwide network of professional integrators. All RTI solutions are programmed through

the company's world renowned Integration Designer® software. Founded in 1992, RTI offers a number of award-winning support and incentive programs to its dealers, including educational opportunities through the Advanced Control University, and the popular Control Bucks and Dealer Accommodation programs.

**Contact:** [www.rticorp.com](http://www.rticorp.com)

GERMANY  
ScreenTronic GmbH



ScreenTronic

ScreenTronic GmbH specializes in the development and distribution of electrical accessories for blinds. A particular focus is the control of blinds in insulated glass. The product range includes DC switching power supplies, KNX controllers, KNX shutter actuators and accessories such as connecting cables, push contacts, cable transitions and housing. An application for iOS (iPad / iPhone) provides extensive product infor-

mation with a wizard for configuring blind controls. Another iOS App turns any iPad / iPhone into a convenient remote control for blinds. KNX interface products with possible applications are in development and will be fully expanded in the future.

**Contact:** [www.screentronic.de](http://www.screentronic.de)

SWITZERLAND  
Sdataway SA



SDATAWAY SA is a leader in the implementation of hardware and software solutions. The initial mission is to study the concept, followed by the creation of electronic products targeted at the industrial and consumer markets. The company produces printed circuit boards (PCB), followed by assembly and various required testing. They also have expertise in mechanical production and plastic injection molding, as well as in the development of functional test benches.

SDATAWAY SA studies product optimization and cost reduction. They work on different tasks, such as the study and development of industrial and office applications, the integration and the modeling of databases, the realization of bridges between various software or hardware systems, as well as software upgrading.

**Contact:** [www.sdataway.com](http://www.sdataway.com)

CHINA  
Sichuan Jiuzhou Optoelectronic Technology Co.,Ltd



Jiuzhou Optoelectronic is a professional solid state lighting, LED packing and display screen manufacturer, a high technology enterprise and a branch of the Sichuan Jiuzhou Electrical Group, which is one of the top 100 electronic conglomerates in China. The company has established a provincial technology centers – LED research centers and postdoctoral research stations, three joint laboratories respectively with Chinese Academy of Sciences, Hong Kong University of science and technology and the University

of Electronics, Science and Technology of China. The company has two factories both in Shenzhen City and the Sichuan Province, with an area of 50,000 m<sup>2</sup> and 12,000 m<sup>2</sup> respectively. The company has built professional LED dice and luminaire laboratories, which has the world's newest experimental instruments and simulation programs for optics, thermology, etc...

**Contact:** [www.scjz-led.com](http://www.scjz-led.com)

GERMANY

Stiebel Eltron GmbH & Co. KG

**STIEBEL ELTRON**

Technik zum Wohlfühlen

STIEBEL ELTRON is an internationally oriented group of companies and one of the world's market and technology leaders in the field of home automation and renewable energy. For 88 years technical performance, quality, innovation, reliability and customer-oriented service have been decisive factors for success. Products are designed, built and marketed with low energy consumption, maximum safety and comfort. The company

is a world leader in water heaters, but also in the field of heat pumps for heating, cooling and water heating, ventilation systems with heat recovery and thermal solar systems and photovoltaic modules, STIEBEL ELTRON is one of the leading companies in Europe. The company is headquartered in Holzminden in the lower Saxony region.

**Contact:** [www.stiebel-eltron.de](http://www.stiebel-eltron.de)

GERMANY

Tecalor GmbH



Tecalor GmbH based in Holzminden specializes in modern, environmental and resource-saving building technology, especially high-quality and efficient heating pumps and ventilation technology. As an 100% subsidiary of the company Stiebel Eltron, the company has decades of experience in system engineering. The competent partner for real estate developers, housing associations, house builders, planners and craftsmen sells

brand products exclusively manufactured in Germany. In addition to the top products as integral systems in combination with solar collectors include heating and domestic hot water heating pumps, and central and local ventilation systems with heat recovery. Matching accessories, memory and control programs complete the range.

**Contact:** [www.tecalor.de](http://www.tecalor.de)

SWITZERLAND

Z2 GmbH



Z2 GmbH was founded in 2002 in Zurich, Switzerland, and Bell Labs, USA. Z2 focuses on KNX/IP development, consulting and deployment. Its KNX product line encompasses an advanced KNX/IP gateway offering large scale, worldwide secure access to KNX. The platform is used for remote troubleshooting, quality assurance, data mining and control of KNX installations. Customer benefit: a drastic reduction in development times of KNX clients and simple worldwide access to KNX instal-

lations. In the automation area, Z2 offers following market services:

- planning, project management and realization of customized, integrated residences.
- independent evaluations of third party projects
- crisis management for existing projects
- consulting services in software systems development from project management level up to CEO level advisory.

**Contact:** [www.zeta2.ch](http://www.zeta2.ch)



**KNX Solutions flyer printed!**

KNX is used in all types of homes and buildings, for many purposes and in efficient ways. The flyer 'KNX Solutions' shows 15 cases in which KNX can be used, the advantages of KNX, as well as all the outstanding projects from the latest edition of the KNX award. The flyer is currently available in five different languages. Interested? You can download it from the KNX website.

**Link:** <http://www.knx.org/downloads-support/downloads/>



**More information under:**

**KNX Association**  
De Kleetlaan 5 Bus 11  
B- 1831 Diegem-Brussels  
Belgium

**General contact:**  
Tel.: +32- (0)2 - 775 85 90  
Fax.: +32- (0)2 - 675 50 28  
E-mail: [info@knx.org](mailto:info@knx.org)  
Web: [www.knx.org](http://www.knx.org)

[www.knx.org](http://www.knx.org)

## New KNX Products

ABB Stotz-Kontakt GmbH

**Secure KNX power supply with advanced diagnosis**



The new ABB i-bus KNX power supplies are equipped with an advanced LED display to indicate the current bus load and rapid diagnosis of the bus state. The state values are also provided via Group Objects on the KNX system. In addition, the ABB i-bus Tool enables detailed analysis of actual values. ABB offers two new devices for 320 or 640 mA bus load, each with integrated choke and wide range voltage input from 85 to 265 V AC at 50/60 Hz. The 640 mA version has also a power supply output without choke to supply another bus line in conjunction with an additional choke. The connection to KNX is established via a bus connection terminal.

**Contact:** [www.abb.com/knx](http://www.abb.com/knx)

b.a.b-technologie GmbH

**I-Wire and S0 now in every eibPort 3**



If somebody orders an eibPort 3 today, it will be automatically delivered with I-Wire and S0-interfaces without additional costs. Four S0-interfaces allow the direct implementation of the corresponding meters. Internally the interfaces are used by a service which fulfils all desires. The I-Wire connection is placed over the USB connector. With the help of a so called 'I-Wire Master', up to 64 subscribers are easily integrated into the facility. I-Wire is very unique with its inexpensive sensors for presence and temperature. Particularly in the view of the eibPort integrated RTR service this leads to attractive solution scenarios.

**Contact:** [www.bab-tec.de](http://www.bab-tec.de)

BILTON International GmbH

**REG Controllers for the Distribution Box**



Bilton continues to set the standards for complex technology and simple handling with its REG Series. With the installation of the controlling devices within the distribution box it is positioned exactly where LED light management begins: with the planning! LED cannot manage without controllers. This means that the planner needs to consider where these devices are placed, or, as is the case with REG he can ensure that the distribution box is sufficiently dimensioned so that the controller can be built in there, at the heart of the house's technology. The installer has a central installation point for KNX and DALI. In addition, BILTON has integrated the Master/Slave function into the REG Series.

**Contact:** [www.bilton.at](http://www.bilton.at)

b.a.b-technologie GmbH

**AP-Touch Panel PC wide 15,6" | 18,5" | 21,5"**



The on-wall mounted Touch Panel 'AP Touch Panel PC wide' is impressive with an elegant piano finish look and complete continuous surface. Ultraflat 48 mm depth and a small frame make it an optical highlight. The LED LCD Touch Display offers multi-touch and WXGA to Full HD resolution depending on the size. Furthermore the front is IP65 protected which also enables the use in rougher environments. Maximum functionality is guaranteed by Windows 7 Professional and by the pre-installed 'Control T' software, which integrates the different web appliances into one surface.

**Contact:** [www.bab-tec.de](http://www.bab-tec.de)

BEG Brück Electronic GmbH

**Weather station KNX WTS-GPS**



With the KNX WTS-GPS, all important environmental values of buildings can be used. The weather station measures wind speed, temperature and brightness, records rainfall and uses GPS for the determination of time and location. With brightness, temperature and precipitation, the station offers a complete weather analysis. Thus, heating, blinds, lighting and many other components can be automatically adapted to external conditions. The sensor, evaluation electronics and bus connection are placed in a compact housing. The KNX WTS-GPS provides not only comfort, but also a large potential for energy savings.

**Contact:** [www.beg-luxomat.com](http://www.beg-luxomat.com)

Comfort Click Ltd

**ComfortClick Manager Version 2.5**



The new version of ComfortClick Manager building automation software offers exciting new features. In addition to KNX, ComfortClick Manager now supports also Modbus, DSC alarm, XBMC, Global Caché, IRTrans, SMA Solar technologies, IP video cameras and GSM modems. The software includes client applications for iOS, Android and Windows. ComfortClick Manager offers a wide range of automation tasks ranging from logical functions, schedules, data logging and scenes to operating time and presence simulation. The intuitive GUI, with eye-catching icons, is fully customizable. ComfortClick also launched CMPhone application which enables integration of IP (video) door phone systems.

**Contact:** [www.comfortclick.com](http://www.comfortclick.com)

**Datec Electronic AG**  
**KNX/DALI actuator**  
**8 Channels**



The Datec KNX/DALI actuator 1 x 8 channels is a device for controlling and monitoring up to eight independent DALI ballasts. The transformation of KNX telegram into a DALI telegram allows easy electrical installation, and thanks to its decentralized housing, the actuator can be installed near the lighting equipment (suspended ceilings) to avoid any additional wiring costs. Each lamp may also be controlled manually using the buttons on the front of the device. Some monitoring information is directly visible on the device itself. This is useful for lamp commissioning and testing the installation, even without KNX Programming. The KNX bus voltage is sufficient for this purpose.

**Contact:** [www.datec.ch](http://www.datec.ch)

**Dialogic Systems**  
**HomeCockpit Excelsior**



Innovative upgrades mean that the high performance multi-touch panel PC can now offer even more. The videophone software reports on the status of incoming connected and terminated telephone numbers using a UDP controller. A UDP image viewer provides controllable camera visualisation in image size and position. And the new 10 finger multitouch support means that super-fast processes are now standard. Another highlight is that if you touch the activated display, none of the control buttons are activated – thus preventing incorrect commands. As of November all technology fans will be excited to learn that a new Excelsior version will be launched, with 8 GB RAM, 128 GB SSD and optional KNX and I wire ports.

**Contact:** [www.home-cockpit.de/excelsior](http://www.home-cockpit.de/excelsior)

**DINUY, S.A.**  
**RE KNT DAI: 1-channel**  
**DALI Dimming Actuator**



DINUY S.A., experts in the development of dimmers, presents its new dimming actuator for DALI equipment. It has an output channel with a maximum capacity of 64 DALI ballasts. Unidirectional and broadcasting communication allows switching and dimming a single group of lamps. Being a single-channel dimmer requires no additional software for the addressing of the DALI devices. It's protected against overload, short circuit and overheating and features an anti-panic input for safety systems. The product has a built-in BCU, modular design and is installed on a DIN-rail. Dimming parameters can be specified using the ETS3 or ETS4.

**Contact:** [www.dinuy.com](http://www.dinuy.com)

**Datec Electronic AG**  
**Fancoil actuator**



The Datec fancoil actuator is a DIN-rail mounted KNX device, for heating or cooling applications in offices, hotel rooms and much more. This device is used for driving fans and valves (0 – 10 V or PWM) as determined by the room controller. The fancoil actuator is able to drive up to three fan speeds and an additional 230VAC relay output (ex. for electrical heater). The device has two physical inputs, the first for connecting a local temperature sensor and the second to be used as a binary input or as a window contact input. Also, a 24 V power supply is included. Using Handmode, the installation can be tested even without connection to the KNX bus.

**Contact:** [www.datec.ch](http://www.datec.ch)

**Dialogic Systems**  
**HomeCockpit Major**



All automation processes are now even smoother. The innovative multi-touch panel PC enables the videophone to be displayed in the KNX visualisation system using UDP-controlled software. There is also a new UDP image viewer for controllable camera visualisation in image size and position. Another practical feature is that if you click in standby mode only the display will be activated – which means that pressing a command button by accident can be prevented. In addition to these intelligent software upgrades, the HomeCockpit Major also has optional hardware highlights such as 4 GB RAM and 64 GB SSD to speed up control processes. It's everything you need for the future.

**Contact:** [www.home-cockpit.de/major](http://www.home-cockpit.de/major)

**DINUY, S.A.**  
**IT KNT 001: 2-channels**  
**Switching Actuator**



Dinuy presents a new multifunction actuator with two output channels (two channels ON/OFF or one channel for blinds/shutters control). The multifunction outputs have a maximum capacity of 16 A per channel. It can be used for switching two independent loads or for controlling one blind or shutter. It does not require an extra power supply from the bus. Built-in BCU is available for this new product with a reduced size. It has a modular format and is installed on a DIN-rail. Programming and commissioning by ETS3 or ETS4.

**Contact:** [www.dinuy.com](http://www.dinuy.com)



**DIVUS GmbH**  
**KNX SUPERIO**



In addition to full graphical representation of ground views, 2D, 3D or real image recording, all kinds of mobile devices (iOS, Android) are supported by WLAN. Door phones have an intercom function integrated with the VoIP server built into the product. It supports all SIP remote stations (2N, Mobotix, Robin, etc.) as well as conventional analogue systems (Elcom, Ritto, Siedle, Gira, TCS, etc.) via DIVUS VIDEOPHONE BOX. User management, views, weather service, browser, energy management (graphical display and consumer shutdown with limit value observation) are included in the product as well as the integrated KNX interface.

**Contact:** [www.divus.eu](http://www.divus.eu)

**easyMOBIZ**  
mobile IT solutions GmbH  
**ayControl**  
**SmartHome EcoPilot**



Still using complex servers in 2013? Save your time and money and enjoy the power of the ayControl® SmartHome EcoPilot! It runs tasks like scheduling- and logic-functions cost efficiently on any stationary Android device. It monitors events and sends alarms via email or SMS. Defining tasks like powerful scheduling functions is as easy as setting the alarm clock on a smartphone! Even beginners can create or modify simple automation tasks intuitively on their smartphone or tablet! Experienced users will enjoy advanced logic and clock functions. The ayControl® SmartHome EcoPilot is offered in cost efficient bundles with the ayControl mobile visualizations on iOS and Android.

**Contact:** [www.ayControl.com](http://www.ayControl.com)

**Eelectron SpA**  
**AD84A02KNX**



New ETS application for the products AD84A02KNX module includes four digital inputs to interface free potential contacts; four analog / digital inputs for free potential contacts or temperature sensors and four led outputs. Digital inputs can interface sensors, traditional buttons, etc.; four led output channels at low voltage can drive LED for synoptic panels or switches. Inputs 5 to 8, set as analog inputs, can enable up to two temperature probes (with On/Off threshold) and two thermostats to control heating and cooling equipment, valves, 2 and 4 pipe fan coils; etc. Temperature sensors available are TS01A01ACC (from -20°C to +100 °C) and TS01B01ACC (from -50°C to +60 °C).

**Contact:** [www.eelectron.com](http://www.eelectron.com)

**DIVUS GmbH**  
**TOUCHZONE**



DIVUS TOUCHZONE revolutionizes KNX visualization using the Android operating system. Additional KNX Visualization Apps (Divus, Gira, B-Con, Jung, etc.) allow the user to use the TOUCHZONE as an intercom unit. The DIVUS VIDEOPHONE App based on SIP technology supports communication to IP intercoms (2N Helios, ROBIN, Mobotix t22, etc.) and analogue systems (Siedle, Gira, TCS, Elcom, Ritto, Jung, etc.) via DIVUS VIDEOPHONE BOX. Multiroom systems can also be employed. Apps and access by AMX, Revox, Crestron, Trivum, Control4 allow complete music management.

**Contact:** [www.divus.eu](http://www.divus.eu)

**easyMOBIZ**  
mobile IT solutions GmbH  
**ayControl for**  
**VoIP Business Phones**



Searching for a KNX control solution for hotel rooms, modern offices and meeting rooms? ayControl 3 has now been adopted for the VoIP business phone COMfortel 3500 from the German VoIP specialist Auerswald. Now you can run ayControl directly on this Android powered business phone. On its 5" touch screen you can control lighting, blinds, HVAC etc. Multimedia equipment can be controlled and pictures of IP-Cameras can be shown. The power of this solution allows you to save on push buttons and external touch panels where necessary. Visualizations can be defined for iPhone, iPad and other Android devices in one go. Connection to the bus is achieved with the integrated LAN interface of the COMfortel via KNX/IP.

**Contact:** [www.ayControl.com](http://www.ayControl.com)

**Eelectron SpA**  
**BO04A01KNX –**  
**4 OUT MODULE KNX**



The new product BO04A01KNX 4 Output Module from the range Combat is a KNX DIN rail mounting device useful to interface loads for any kind of application. The four outputs on board can be configured, for example: each output can be configured independently for load control (R1 to R4). Each output can be configured independently for ON/OFF or continuous switching (PWM) for electric valves (solenoid actuators) (EV1 to EV4). Outputs can be configured in pairs for the management of roller shutters and blinds; up to two channels (Channels A to B). Outputs can be configured in pairs for management of Motor Reductor or for solenoid valves with 3 point control or for ventilating grill; up to two channels (Channels A to B).

**Contact:** [www.eelectron.com](http://www.eelectron.com)

Elsner Elektronik GmbH

**Actuator for Shading/Ventilation**



The actuators of the KNX SIE and KNX SIR series control shading or a window. In addition to automatic shading and ventilation, the device software also offers parameters for specific applications such as the consideration of drive and mechanism dead times. The runtime of the connected drive is automatically determined by current measurement. The relays of the KNX actuator series SIR have a low wearing way of switching at the voltage's zero point. Silent and non wearing is the electronic switching of the KNX SIE series devices. Extended actuator models offer additional analog/digital inputs for push buttons or temperature sensors.

**Contact:** [www.elsner-elektronik.de](http://www.elsner-elektronik.de)

EMT Controls

**All-in-one Controller**



HCM350 is a highly integrated KNX compatible device that enables implementation of almost all automation scenarios for new buildings and for refurbishments. This ladder logic programmable product is tailored for the hospitality industry, especially guestroom automation. By learning about only one single product, an installer can fulfill wishes of even the most demanding customers. It enables implementing complex scenarios such as controls of TV, actuators, fancoil, HVAC and more. HCM350 has a built in W-Fi Router and comes with customizable iOS/Android applications. It has a long list of built-in interfaces and features, combinations are countless.

**Contact:** [www.seesens.com/products](http://www.seesens.com/products)

Enertex Bayern GmbH

**Enertex® KNXnet/IP Interface**



The KNXnet/IP Interface (3U) supports up to 4 KNXnet/IP tunnels and can be used to connect ETS and simultaneously other devices (e.g. the Enertex® EibPC) from LAN to the KNX world. The IP address of the fast ethernet connection can be set manually by ETS or automatically by DHCP or Zeroconf. The KNXnet/IP Interface is fed by Power over Ethernet or by an external 16 – 24 V AC or 20 – 30 V DC power supply.

**Contact:** [www.enertex.de](http://www.enertex.de)

Elsner Elektronik GmbH

**Processing Temperatures with KNX T6-UN-B4**



The evaluation unit KNX T6-UN-B4 has connections for up to ten temperature sensors. 6 inputs are provided for sensors T-100 and T-130. Four additional analog/digital inputs can be used for either temperature sensors T-NTC or for push buttons or auxiliary contacts. The measuring probes matching KNX T6-UN-B4 are compact and available for different measuring ranges and protection categories (up to IP 68). The evaluation unit can calculate mixed values, six switching outputs pass on breaking or undercut of limit values. Heating and cooling actuators can be controlled directly via six integrated PI controllers. Logic gates offer additional linking options.

**Contact:** [www.elsner-elektronik.de](http://www.elsner-elektronik.de)

EMT Controls

**Intercom Touch Panel with KNX**



HTP900C-KNX is a multifunctional, stylish touch panel, with integrated IP video telephony targeting Intercom applications. Featuring a 9" capacity touch screen and individually CNC machined front bezel, it is the ideal choice for multi-dwelling-unit applications where reliability and style are key factors. HTP900C-KNX comes with EMT Builder PC software, which enables installers to customize visuals, KNX features on the touch panel can be made based on customer demands. This product will be your one stop control center for the whole property. It enables complex automation control scenarios, for instance, lighting, HVAC, security, cameras, drapes and more.

**Contact:** [www.seesens.com/products](http://www.seesens.com/products)

EUROtronic Technology GmbH

**Stella KNX**



Stella KNX is an electromotive proportional actuator and is used to control room temperature radiators, underfloor heating and heating systems. Stella is equipped with two potential free binary inputs, in which window contacts and switches can be connected. The voltage is supplied only via the bus, so no additional power is required. KNX actuator has an integrated backlight display for position indication and two touch keys.

**Contact:** [www.eurotronic.org](http://www.eurotronic.org)

**Gira Giersiepen GmbH & Co. KG**  
**Gira Control 9 KNX**



The Gira Control 9 KNX enables convenient control of the entire building technology even without the Gira HomeServer as a higher-level central control unit. Therefore, the device is ideal for modern single-family houses or smaller building complexes. Thanks to its drag-and-drop design, it can be configured easily and quickly by an electrical engineer. The Gira Interface design wins over users with its high level of user friendliness and fast orientation. As a complete KNX system device, it can be combined with all Gira KNX components, for example with the Gira DCS/IP-gateway. With its various design cover plates, the Gira Control 9 KNX matches any room concept.

**Contact:** [www.gira.de](http://www.gira.de)

**Guangzhou Hedong Electronic Co., Ltd (HDL)**  
**Touch Panel series**



HDL KNX series products for Touch Panel include: M/TBP1.I, M/TBP2.I, M/TBP3.I, M/TBP4.I, M/TBP5.I and M/TBP6.I. Each button can be touched, locked, unlocked and can be bus triggered. The button can control these functions: switching, dimming, shutter control, scene control and sending of values and strings to the bus. The delay operation function is available for each of those functions. In night mode, the brightness can automatically be adjusted to the minimum level for energy saving and environmental protection.

**Contact:** [www.hdlchina.com](http://www.hdlchina.com)

**Home Systems Consulting S.p.A.**  
**HSYCO Pi**



HSYCO is a leading Web based pure HTML5 supervision server for the development of integrated control systems for KNX and more than 50 standard and proprietary environments. HSYCO Pi provides the power and flexibility of the HSYCO engine on the extremely popular and ultra-low cost Raspberry Pi platform at a revolutionary price, offering fully integrated control of field systems for small installations. HSYCO Pi is the perfect tool for vertical application for security, industrial automation and distributed sites supervision, and a full featured gateway between any of the supported systems.

**Contact:** [www.homesystemsconsulting.com](http://www.homesystemsconsulting.com)

**Guangzhou Hedong Electronic Co., Ltd (HDL)**  
**Classic Panel Series**



HDL KNX series products for Classic Panel include: M/P01.3, M/P02.3, M/P03.3 and M/P04.3. Each button can be locked, unlocked and can be bus triggered. The button can perform these functions: switching, dimming, shutter control, scene control and sending of values and strings to the bus. The delay operation function is available for each of those functions. In night mode, the brightness can automatically be adjusted to the minimum level for energy saving and environmental protection.

**Contact:** [www.hdlchina.com](http://www.hdlchina.com)

**Hager Vertriebsgesellschaft mbH & Co. KG**  
**Network-enabled smoke and heat detector alarms**

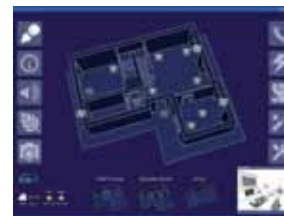


Hager is the only manufacturer to offer wired and radio, network enabled, smoke and heat detector alarms with additional KNX radio telegram, for integration into building system technology. Via a media coupler, KNX information, such as fire or error messages, can be transmitted on the KNX bus. 4 versions are available:

- the battery operated, wireless, smoke detector alarm, TG510A
- the mains operated, 230 V AC, wireless, smoke detector alarm with backup battery, TG511A
- the battery operated, wireless, heat detector alarm, TG540A
- the mains operated, 230 V AC, wireless, heat detector alarm with backup battery, TG541A

**Contact:** [www.hager.de](http://www.hager.de)

**Home Systems Consulting S.p.A.**  
**HSYCO 3.3**



HSYCO is a Web based pure HTML5 supervision server for the development of integrated control systems for KNX and many other environments.

HSYCO 3.3 introduces several enhancements to the Web user interface with full gestures support and advanced controls on most browsers, smartphones and tablets. Developers will be able to create richer interfaces that, while having more functions, are much faster and easier to use. HSYCO 3.3 interfaces smoothly with Arduino, adds new I/O drivers to integrate additional products, expands Modbus support with Modbus RTU and a new Modbus/TCP server, implements several new development tools including the Wiring Editor, an easy to use end user logic and scenarios builder.

**Contact:** [www.homesystemsconsulting.com](http://www.homesystemsconsulting.com)

Ingenium SL

**PPK7-L –  
7" KNX Graphic controller**



The PPK7-L is a 7" color touch screen for KNX installations, with Wi-Fi connection to control and monitor all installation devices by icons on 3D color drawings or photographs (maximum 16 images). Other functionalities: scenes editing, annual timing programming, alarm arming/disarming, presence simulation, programmable thermostats, weather forecast, graphical whiteboard notes, etc. PPK7-L incorporates an integrated Web Server, which allows the installation to wirelessly connect either through PC or through mobile devices locally or remotely. Thanks to the included Wi-Fi, it allows the device to update the latest version of the available software online.

**Contact:** [www.ingeniumsl.com](http://www.ingeniumsl.com)

Intesis Software, SI

**New IntesisBox®  
PA-AW-KNX-I**



Intesis Software S.L. introduces the new IntesisBox® PA-AW-KNX-I gateway for Panasonic Air to Water Aquarea line. The gateway can be connected easily with both mono-bloc or bi-bloc installations of the Panasonic Aquarea line. This gateway can be parameterized and configured with ETS. The IntesisBox® PA-AW-KNX-I has full control of the Panasonic Air to Water Aquarea units, being able to control the air conditioning system as well as domestic hot water (DHW). The KNX interface provides new extended functionality, stressing the separation of the control and status objects and the of KNX standard Datapoints.

**Contact:** [www.intesis.com](http://www.intesis.com)

iSimplex

**iSimplex Home Server  
version 5.2.1**



The iSimplex Home Server launched new features in the areas of entertainment, personalization and security. The entertainment module has a new feature: Mobile Media. You can access the contents from your digital library directly inside iSimplex's interface, such as playing a movie or listening to music directly on your tablet. This version contains a new icon pack for divisions and devices. In the area of security a new module has been added: User Access Profiles. iSimplex Home Server gives you an interface to control any KNX devices and allows you to integrate KNX automation elements with multiroom audio, video doorman, access control, video surveillance, energy management, security systems and A/V solutions.

**Contact:** [www.isimplex.com](http://www.isimplex.com)

Intesis Software, SI

**IntesisBox® FJ-RC-KNX-Ii**



Intesis Software S.L. introduces the new IntesisBox® FJ-RC-KNX-Ii gateway for Fujitsu, Fuji Electric, General and Hiyasu air conditioning VRV and domestic lines. This gateway features four binary inputs as a new and important hardware improvement. The IntesisBox® FJ-RC-KNX-Ii has full control of the Fujitsu, Fuji Electric, General and Hiyasu AC indoor units, and is provided with new extended functionality, stressing the separation of the control and status objects, the use of KNX standard Datapoints, and the possibility to perform several actions depending on the occupancy of a defined area, or the status of a window contact.

**Contact:** [www.intesis.com](http://www.intesis.com)

iRidium Mobile Ltd.

**iRidium for KNX version 2.1**



'iRidium for KNX' V2.1 is an unlimited control solution:

- Any KNX equipment
  - Any automation systems
  - Audio/Video
  - Any Control Panel (iOS, Android, Mac, Windows XP/7/8)
  - Custom interface
- 'iRidium for KNX' V2.1 expands your control capabilities:
- Data import from ETS 3, 4
  - Control from up to ten control panels
  - SIP Intercom
  - H.264, MJPEG
  - Wizard of interfaces
  - Ready script modules (Sonos, iTunes, XBMC, SqueezeBox, etc.)
  - Control via Internet, local network

**Contact:** [www.irdiummobile.net/KNX](http://www.irdiummobile.net/KNX)

Albrecht Jung GmbH & Co. KG

**KNX room controller OLED**



Jung has extended the F 40 push-button modules into a new high-end controller with the KNX room controller OLED. The compact room controller with integrated bus coupling unit in the CD and LS design ranges features a high-resolution OLED graphic display with brilliant colours. The operation of the OLED room controller is done by means of large buttons that can be laser engraved or imprinted individually with symbols or text by means of the Jung graphics tool. To add functionality, the unit can be combined with the push button extension module.

**Contact:** [www.jung.de](http://www.jung.de)

**Albrecht Jung GmbH & Co. KG**  
**Smart Control IP**



The Jung room controller can be incorporated into networks and is addressed using its IP address. A touchscreen combines visualisation and room feature control with smartphone user convenience. Three HTML5 clients provide access to building control systems. Through connecting the system to the Facility Pilot Server, it is included into KNX control systems. Thus, Smart Control IP is turned into a KNX room controller. In addition, it may operate as a video indoor station (including door call and door opener features, image storage etc.). Due to network connectivity, all settings can be done easily and quickly using web configuration.

**Contact:** [www.jung.de](http://www.jung.de)

**Lifedomus**  
**MyLifedomus**



MyLifedomus is an iPad, iPhone, Android gateway to the KNX world and brings the power of Lifedomus visualization systems to its users. The interface is first programmed in ETS and is then totally customizable on smartphones and tablets. Rename rooms and devices, use pictures or specific designs for control to adjust the interface. All the KNX devices are supported (switching actuators, blind actuators, heating actuators, etc.). Visualize all status and weather info and the security cameras. The user is able to create his own scenarios which can be launched manually, scheduled, or automatically using the geo-localization. The module can be used as a KNX/IP gateway for Lifedomus servers and ETS programming.

**Contact:** [www.lifedomus.com](http://www.lifedomus.com)

**MDT technologies GmbH**  
**SCN-G360K3.01**  
**Glass Presence Detector**



The new glass presence detector with a high quality look satisfies the high standards of the customers. The high resolution lens and three sensors detect the smallest movements to a distance up to 11 m. The sensitivity for standby (medium) and presence (high) is set individually. With a day/night object it's possible to use different setups/objects: for example during the day 100 % light and during the night 30 % light or send an alert message. A new function will ignore a passing person in the corridor. The constant light intensity level provides a smooth illumination with best energy savings.

**Contact:** [www.mdt.de](http://www.mdt.de)

**lesswire AG**  
**HWC: Multi-Standard Gateway with KNX/RF Interface**



The programmable gateway with application server HWC enables OEMs and system integrators to implement monitoring and control solutions based on sensors and actuators with KNX RF, Wireless M-Bus, Bluetooth and WLAN interface. The system also has a RJ45 Ethernet and a USB interface. It can be programmed in a .net based application environment. In depth RF know-how is not required. 100 MB of free flash memory is available for the customer's application. Z-Wave, EnOcean and GPRS/UMTS functionality can be added via USB dongle. Optional interface configurations are available upon inquiry.

**Contact:** [www.lesswire.com](http://www.lesswire.com)

**MDT technologies GmbH**  
**SCN-LED1W/S.01**  
**Glass LED Display**



The new glass LED display with 12 RGB LEDs shows up to four states for each colored LED. Two objects per LED visualize states such as window contacts or alerts. The control function can monitor objects, display a missing object and send an alert message. A logic module can monitor the value of bytes and temperatures. An individual laser printed label can be positioned behind the glass. The display is available in black or white glass with 92 x 92 mm size. Alternatively a version for 55 mm plastic standard frames is available with a white matte finish.

**Contact:** [www.mdt.de](http://www.mdt.de)

**Menerga d.o.o.**  
**VIA – a BMS for iPad**



'Via' is a user friendly building management system application for iPad that enables you to operate the entire building. Set the desired room temperature, control lighting, shades, curtains, windows, etc. in individual rooms or throughout the building, control the building's energy use, monitor your carbon footprint and more. 'Via' was made as a beautifully designed user interface as the heart of a building. It makes home automation extremely simple, easy to use and as luxurious as top interior design can be. 'Via' is flexible and can be used with any KNX hardware. It is the perfect mobile upgrade of your current automation system or can function as a standalone BMS.

**Contact:** [www.via-app.com](http://www.via-app.com)

**NETxAutomation Software GmbH**  
**NETx Touch 1.0**



The new clients for NETx BMS Server 2.0 are now available. Benefit from the ability to visualize your KNX system using touch screens. NETx Touch is now available in the App Store and Google Play. Important features:

- Easy to configure
- Automatic project search
- Password protection of app settings
- iOS or Android
- Metering module – energy consumption data display
- User management
- Configurable zoom function
- Configurable automatic rotation
- Server based calendars
- Due to its scalability NETx Touch can be integrated in almost all projects.

**Contact:** [www.netxautomation.com](http://www.netxautomation.com)

**Siemens AG**  
**KNX/DALI gateway**  
**Twin N 141/31**



The new dimension in lighting control: the gateway offers expanded usability with two DALI-outputs for DALI-sensors and DALI-actuators. Up to 128 DALI-actuators can be controlled simultaneously by broadcasting, divided into 32 groups or integrated into 32 scenes. An integrated incorrect voltage detection system protects the DALI-outputs against installation errors. To increase the range of design options it is possible to flexibly realize lighting control with KNX or DALI-capable sensors. The user friendly ETS plug-in simplifies commissioning, configuration and parameterization.

**Contact:** [www.siemens.de/gamma](http://www.siemens.de/gamma)

**Siemens Schweiz AG**  
**Room units QMX3**



Room control units QMX3 are available in six device versions, which are designed to work together, for controlling HVAC and electrical applications. They regulate the temperature, humidity and the carbon dioxide (CO<sub>2</sub>) concentration in the room in an energy efficient way. Customizable pairs of buttons cover functions for switching, dimming, shading and scenes control. Bundling all functions in a single device serves to reduce to a minimum the effort required for installation and configuration. The room units can easily be integrated in KNX via the included bus connector.

**Contact:** [www.siemens.com/gamma](http://www.siemens.com/gamma)

**Schneider Electric GmbH**  
**InSideControl**



With the new InSideControl App, Schneider Electric offers the additional option of mobile KNX building control – everywhere at any time. Smartphones and tablets at home or in the office turn into a convenient remote control for all building functions. The KNX InSideControl IP-gateway enables the connection of the IP network to the KNX bus. Up to five smartphones or tablets in parallel are able to control lights and temperature, call up scenes or visualize the energy consumption the comfortable and mobile way. InSideControl – Upgrade KNX to the next comfort level!

**Contact:** [www.schneider-electric.com](http://www.schneider-electric.com)

**Siemens AG**  
**Modular Universal Dimmers**



The modular universal dimmer main modules and the extension modules are useful for all needs, where effective illumination is requested. To create attractive illumination and an inviting atmosphere in the sales field, the universal dimmers can be set to 2 different dimming levels. The two universal main modules for up to 300 VA and 500 VA are equipped with an interface for the connection of up to five universal extension modules.

These modules deliver a dimming output of up to 300 VA, 500 VA and 1000 VA, in parallel mode up to 2000 VA. All modules have two binary inputs for direct control.

**Contact:** [www.siemens.com/gamma](http://www.siemens.com/gamma)

**Siemens Schweiz AG**  
**Room thermostat**  
**RDGI60KN**



The RDGI60KN room thermostat is of compact design and suited for fancoil units, universal and heat pump applications. The communicating and energy efficient thermostat provides direct control of ECM fans (via DC 0...10 V signal) and DC or 2 position valves, as well as 3 speed fans and DC valves. Using the KNX interface, the RDGI60KN can be straightforwardly integrated in existing building automation and control systems. Moreover, the product excels in ease of installation, modern design with large display and intuitive operation.

**Contact:** [www.siemens.com/thermostats](http://www.siemens.com/thermostats)

**Somfy GmbH**  
**KNX Sun Protection**  
**Master Control**



Somfy has extended its animeo KNX Master Control with a variety of functions.

- Sun tracking with vertical exterior blinds.
- Ventilation functions by opening windows is also guaranteed when it's windy and rainy because the variables, 'Rain' and 'Wind Direction' are coupled to each other.
- Automatic ventilation through opening windows in summer is now possible in conjunction with outside and inside temperature.
- The blocking of the local operation for sun protection hangings when the sun threshold values and temperature are exceeded, provides effective heat protection.

The KNX Master Control can control 19 types of hangings, as well as 16 zones, and is extendable up to 32 or more façade zones.

**Contact:** [www.somfy.com](http://www.somfy.com)

**T2M2 - Gesellschaft für Automation und Engineering mbH**  
**t2 Edition 4 Touch PC**



With the Edition4, T2M2 presents the latest generation touch PCs with flush mounted glass front panel. Meeting the highest standards in design and quality workmanship. This value is created by the combination of fine and stainless steel. Thanks to an innovative mounting system, the panel can be mounted on, and in wall, thus ensuring a high level of flexibility. The connection to the KNX bus is solved with an integrated USB interface as option or can be done via a KNX/IP interface. All major KNX Visualizations that run on Windows 7 can be used. The hardware and software configuration consists of an Intel Dual Core processor, two GB of RAM and a full fledged Windows 7 Pro. Of course, it is fanless and has capacitive multitouch screen.

**Contact:** [www.EasyKNX.de](http://www.EasyKNX.de)

**TAPKO Technologies GmbH**  
**KAlstack for Microchip**



KAlstack is the main software component of KAI (KNX Advanced Interface) and provides the complete functionality for KNX devices. Embedded system designs that employ KAlstack and the microcontroller from the Microchip gain access to the powerful platform KAI for KNX bus devices. The PIC24F microcontroller family features cost effective, 16 MIPS 16-bit MCU performance and many devices with Microchip's extreme low-power Technology. The PIC24F families incorporate USB-OTG, to act as a USB Device or Host, a Charge Time Measurement Unit (CTMU) that allows precision time measurement, capacitive measurement for mTouch™ applications and an integrated graphics controller.

**Contact:** [www.tapko.de](http://www.tapko.de)

**STEINEL Vertrieb GmbH**  
**Human presence detector**  
**HPD I**



HPD I: Human presence detection sensor from STEINEL PROFESSIONAL for real presence detection without involving movement. Analysing images directly in the sensor, the HPD I detects people walking, standing and sitting in a room even if they are not moving. Designed for close and long range detection up to a distance of 15 meters, its detection zone can be software defined with absolute precision. The swiveling sensor has a coverage angle of 130 degrees, sending out a signal that tells how many people are present through an IP interface or relay. This means the system can be integrated into a building automation set-up that uses KNX.

**Contact:** [www.steinel-professional.de](http://www.steinel-professional.de)

**TAPKO Technologies GmbH**  
**KAlstack for Freescale**



The combination of KAlstack and the Freescale Kinetis MCUs facilitates the access for embedded systems to the platform KAI (KNX Advanced Interface) for KNX enabled bus devices. The Kinetis 'K' and 'L' series from Freescale are powered by ARM® Cortex™ -M4 and ARM® Cortex™ -M0+ and enable exceptional low-power performance, memory scalability and feature integration, qualities that are basically needed in building automation. Both series Kinetis 'K' and 'L' include a wide selection of analog, communication, HMI, connectivity and several security features.

**Contact:** [www.tapko.de](http://www.tapko.de)

**trivum technologies GmbH**  
**trivum AudioAktor.4**



The trivum AudioAktor.4 is a modern and complete music system in a REG frame for four rooms. The flexible AudioAktor.4 is ready for use within a few minutes after installation by an electrician and extends music to e.g. living room, kitchen, bathroom, and bedroom in the easiest way. No matter iPhone, computer, trivum TouchPads, KNX switch, HomeServer, Domovea or FAP: one can access radio, music library or other sources easily and quickly. The AudioAktor.4 has a UKW RDS radio, an analogue input, a streaming player (for internet radio or music from a NAS) as well as four stereo amplifiers with 2 x 50 W power output each available.

**Contact:** [www.trivum.com](http://www.trivum.com)

trivum technologies GmbH  
trivum AudioAktor.I



The trivum AudioAktor.I is a modern and complete music system in a REG frame for one room. The AudioAktor.I includes music server, amplifier (2 x 50 W), UKW RDS radio and a streaming player (for internet radio or music from a NAS). Several AudioAktors can fill several rooms with sound if they are combined. The AudioAktor.I can be controlled flexibly via KNX (switch, HomeServer, Domovea, FAP, ...), a free iPhone App, trivum TouchPads or web browser. The system is configured by the built-in web server: the system is connected to the music data within a few minutes and the linking with the KNX Group Addresses is done.

Contact: [www.trivum.com](http://www.trivum.com)

Weinzierl Engineering GmbH  
KNX/EnOcean Gateway  
632 / 632



Now the family is complete: with the KNX/EnOcean gateways 630 and 632 the 'great' gateway 634 gets two smaller 'siblings', which together follow the proven KNX ENO series. The Model 632 operates bi-directionally: the value model 630 works unidirectionally. Based on a new platform not only sensor values from EnOcean to KNX can now be transferred, but also KNX actuators can be controlled from EnOcean. In addition, the devices have various logic and control functions. The configuration is done via ETS, for information the EnOcean gateway devices are equipped with a graphic display. The voltage is supplied via the bus.

Contact: [www.weinzierl.de](http://www.weinzierl.de)

Zennio Avance y Tecnología S.L.  
MAXinBOX66



As an 'all round' KNX professional, you will succeed with this all-in-one actuator. MAXinBOX66 will fit whenever you need flexibility including six inputs for any combination of push buttons, sensors, switches, temperature probes or motion sensors; six relay outputs (16 A) for any combination of individual outputs or shutter channels including louvre control, internal logical module with ten logical functions to face the most demanding projects, manual operation and status indicator for each output that ensures out the box professional testing and customer satisfaction. No need for auxiliary power supply.

Contact: [www.zennio.com](http://www.zennio.com)

Vimar SpA  
Electronic KNX controls  
for Arké



The two module electronic KNX controls from Vimar are now also available for the Arké series. Designed to house up to four independent buttons, which can be used for on/off, shutter control, light adjustment and scene recall commands; they are finished off with 1 and/or 2 module half buttons, both simple to identify the programmed button and fixed, to exclude the buttons which have not yet been configured. The installation solution offered by Vimar, with the bus terminals integrated into the device, not only reduces product codes for individual electricity points, but also makes wiring significantly easier and prevents any potential connection errors that may occur.

Contact: [www.vimar.com](http://www.vimar.com)

Weinzierl Engineering GmbH  
KNX/USB Interface  
330 Board



The KNX/USB interface board 330 is used to connect embedded devices on the KNX bus. The compact module is characterized by its very small dimensions of 63 x 17 x 7.7 mm (L x W x D). It can be easily integrated into an existing system, such as an industrial PC or a touch panel. The USB connection is galvanically isolated from the KNX bus. The interface is compatible with ETS3 and ETS4. For integration into your own application, a free SDK for Windows and Linux is available by Weinzierl named kdrive express.

Contact: [www.weinzierl.de](http://www.weinzierl.de)

Zennio Avance y Tecnología S.L.  
ZPS640MPA KNX



As many professionals believe that beauty also applies to electrical cabinets, Zennio developed a new 'state of the art design' KNX power supply. ZPS640MPA is an extremely powerful, but small in size, power supply. It consists of both a KNX power supply (29 V DC with KNX choke built-in) and an ancillary 29 V DC power supply to supply up to 640 mA. It also incorporates a LED operation and overload indicator, overvoltage and short circuit protection and a reset push button. It is available for main power supply of 230 V AC (Ref. ZNIPS-640MPA220) or 110 V AC (Ref. ZNIPS-640MPA110). Optimal installation on DIN rail (80 x 90 x 60 mm)

Contact: [www.zennio.com](http://www.zennio.com)



Zeta2 GmbH

xEIB



ArgusView application on xEIB calibrates and supervises KNX flows automatically. Beside other functions it monitors hundreds of KNX devices for errors. Clear benefits for integrators: market leadership thanks to reliability, flexibility and operational safety of KNX deployments. xEIB allows easy access to KNX via Internet clients using open specifications, XML/HTTP TCP based protocols – secure, scalable and worldwide, also without VPNs. KNX cache and a 'data warehouse' are included and store a large amount of historical KNX traffic. The advantage: easy data retrieval and graphing according to a multitude of criteria defined by clients.

**Contact:** [www.zeta2.ch](http://www.zeta2.ch)

# KNX AWARD 2014

## Competition

The KNX Award 2014 picks up on the basic principle of the craft industry. Determining factors for KNX Association to increase the chances of one's application are not size and volume of the KNX installation, but rather

- The diversity of the included trades
- The flexibility and expandability
- The level of automation and complexity of the installation
- The user friendliness and user acceptance
- The convincing arguments for the client
- The implementation of products from different manufacturers

## Prizes and Jury

The prize money in each category of the KNX Award amounts to € 1,000. Winners in each category will also receive the coveted KNX trophy.

The jury consist of neutral experts from the KNX world and KNX Association. If necessary, KNX Association and the jury may request additional information from the participants to evaluate the projects.

The awards will be granted in five categories: International, Publicity, Energy Efficiency, Young and Special.

## Timeline

- The deadline to submit a complete set of application documents is Friday December 6, 2013
- The jury will evaluate the submitted material in January 2014.
- The five top nominees in each category will be informed by email after the end of the jury's meeting.
- The KNX Awards 2014 are granted at the Light+Building Fair (1<sup>st</sup> April, 2014) in Frankfurt (Germany).



**Register now  
and become one  
of the laureates  
in April 2014.**

## Contact

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

Tel: +32 - 2 - 7758590  
Fax: +32 - 2 - 675 50 28  
Email: [knx-award@knx.org](mailto:knx-award@knx.org)



[www.knx.org/knxaward](http://www.knx.org/knxaward)

## National Groups



### KNX Belgium and KNX professionals join forces at Batibouw 2013

In February, KNX Belgium participated for the third time at the Batibouw fair, the biggest Belgian fair dedicated to the building trade (main sectors covered are: interior construction, building technology and machinery). This fair mainly focuses on end consumers, but focuses solely on professionals the first two days. More than 300,000 people visited and 1000 companies exhibited this year. KNX Belgium exhibited together with the KNX Professionals Belgium at a 120 sq booth to show the newest KNX products and active applications to convince both professionals



KNX Belgium stand at Batibouw 2013



and end consumers about the benefits of the KNX Standard. The fair was considered a great success by all members of KNX Belgium and KNX Professionals.

**Contact person:**  
Thibaut Hox  
**Email:** [info@knx.be](mailto:info@knx.be)  
**Website:** [www.knx.be](http://www.knx.be)

### First KNX Forum in Brazil

On February 5, KNX Brazil, in conjunction with KNX International, organized the first KNX Forum in São Paulo (Brazil). The main goal of the event was to highlight the importance of the Brazilian market to KNX as well as to show all KNX events already organized in the country (organization of events, participation at conferences and exhibitions, KNX trainings, etc). Besides, Brazilian KNX Members had the time to share their plans and future vision of KNX in Brazil. As a result, people were attracted to KNX and many of them asked how to start with KNX, how to become a member of KNX Brazil and also of the KNX International. This was a clear sign that the audience, more than 100 delegates, were impressed by the fast spreading of KNX in only five months time.



Maracana Stadium, a large project controlled with KNX technology.



Delegates at the 1<sup>st</sup> KNX Forum in Brazil



When looking at the market, it's also clear that KNX is becoming more and more recognized as the standard for home and building control in Brazil, not only used in small projects such as 'Ekohouse' but also in large scale like the 'Maracana Stadium'. The expansion of the KNX standard in Brazil is promising a bright future in Brazil.

**Contact person:**  
Alex Frazatti  
**Email:** [executivo@knx.org.br](mailto:executivo@knx.org.br)  
**Website:** [www.knx.org.br](http://www.knx.org.br)

## KNX China Roadshow promotes KNX in four major Chinese cities

KNX China, in cooperation with KNX International and with the kind support of Messe Frankfurt, organized the KNX Roadshow China, which took place in four different Chinese cities: Beijing, Shanghai, Chongqing and Guangzhou. Moreover, in each city two different events were organized:

The first event 'The KNX Technology and Application Forum' with the prime targets of audience contractors, system integrators, building designers, architects, researchers, investors and manufacturers. During this day, attendants were informed about the advantages of KNX compared to other home and building control systems, KNX facts and figures, KNX energy efficiency and Smart cities, the KNX technical features, the ETS, the KNX ETS4 eCampus, detailed presentations of the product portfolio of different KNX China members and also



The picture shows the audience listening in on the presentation of the company LongChuang.

local KNX projects implemented by local system integrators. Secondly an event entitled 'The KNX Development Getting Started Event', where the prime target audience was manufacturers wishing to develop KNX compatible products. For this,

indepth information was also provided on available KNX certified system components and how to read the KNX specifications and the GB/T 20965 standard. Also the KNX Certification Procedure was explained and local Chinese



members informed the group about their experience when developing their first KNX compatible products. In all cities, the organized events could count on great interest and attendance of all target groups. KNX International would like to thank all local KNX Chinese manufacturers for their help and support making this two weeks' roadshow a success. A special word of gratitude goes out to the superb work of the KNX China office, ITEI.

### Contact person:

Shen Pu

**Email:** [info@knxchina.org](mailto:info@knxchina.org)

**Website:** [www.knxchina.org](http://www.knxchina.org)

## Danish teachers tune in to KNX

In spite of the fact that Denmark is a small country, no less than 16 technical schools educating electricians are spread throughout the country. Once a year, all teachers from the schools participate in a three-day conference with the objective to increase their teaching competences, update their knowledge of the latest technology and trends in the industry, share experiences and network.

This year, KNX Denmark was part of the conference program and held a three hour workshop. The theme was the intelligent installations of the KNX building with focus on the technical aspects, the implementation of the different apps and the



Lillian Andersen (left), president of KNX Denmark, together with the participants of the KNX Tutor course.

integration and interaction between the apps. More than half of the participating teachers at the conference opted for the

KNX workshop. In parallel to this, three technical schools in Denmark will open certified KNX training centers in 2013,



and more schools will follow in the years to come. It is obvious that KNX is on the agenda at the technical schools and that the teachers recognize that they have to stay tuned in to the world of KNX.

### Contact person:

Lillian Andersen

**Email:** [info@knxdenmark.dk](mailto:info@knxdenmark.dk)

**Website:** [www.knxdenmark.dk](http://www.knxdenmark.dk)

## New marketing tools developed by KNX France

KNX France decided to create a new look for its website in order to make it more attractive, modern, ergonomic and complete. The projects page has been redesigned to be more accessible and intuitive. The training page has been optimized with the development of training centers by the addition of their logos, contact details and schedules.

The French website also shows a new graphic design, dedicated information, etc. This website is now available in three versions, each of them suitable for today's most used gadgets: smartphones, tablets and computers. KNX France is also in preparation of a new KNX France App for iPhone and iPad. This App will inform the French visitors about the latest



The new user interface of the website is ready in several formats (PC, tablets and mobiles)



The new KNX France App for iPhone and iPad



news on KNX and its members; products, documentations, shows and events... This app promotes exchange and sharing information between users. The App will soon be available in the App Store.

**Contact person:**

Amel Karim

**Email:** [contact@knx.fr](mailto:contact@knx.fr)

**Website:** [www.knx.fr](http://www.knx.fr)

## Strategic cooperation of KNX Hungary

For the first time, KNX Hungary managed to partner up with the exhibition organizer of the event Construma. This event took place from April 10 – 14 in Budapest. It is the biggest exhibition related to the construction market in Hungary. Visitors range from professionals to designers and end users as well. During the 5 day event, Hungexpo (the organizer) provided a booth to KNX Hungary.

In addition, the KNX National Group participated at several conferences during the trade show. All together, a complete half day with five presentations was dedicated to the topic of home and building automation featured by KNX. It was a great opportunity to show KNX solutions to the engineers who visited Construma, where many HVAC professionals were



Seminar at Construma



Zoltán Balogh, president of KNX Hungary, at the seminar presenting the KNX technology.



invited. This was a successful cooperation and, therefore, KNX Hungary is looking forward to follow up again.

**Contact person:**

Zoltán Balogh

**Email:** [bz@knxhungary.eu](mailto:bz@knxhungary.eu)

**Website:** [www.knxhungary.eu](http://www.knxhungary.eu)

## KNX India, bright future ahead

On June 3, KNX India organized its first Annual General Meeting, at which not only administrative issues were taken on. The main focus of this meeting was to decide the future events all over India. During this meeting, many events were agreed upon, such as the organizing of a KNX Roadshow, following the example of the KNX Roadshow Middle East, and the participation at Elecrama, the biggest show for home and building automation in India. The outcome of the meeting ensures an exciting future.

Right after the AGM, KNX India organized 'The 2<sup>nd</sup> Indian



2<sup>nd</sup> KNX Forum in Bangalore

Forum of KNX Technology and Application'. This event attracted 40 participants from

all over India. KNX Members and partners gave insight into the KNX market in India. The



feedback for this event was so positive that three more companies joined KNX India on the spot in order to be part of the growing future of KNX in India.

**Contact person:**

Bhavesh Doshi

**Email:** [info@knx.in](mailto:info@knx.in)

**Website:** [www.knx.in](http://www.knx.in)

## KNX Italy meets new target audiences

In order to promote the knowledge of the KNX technology, and with the aim to involve new membership categories, KNX Italy took part in the event 'Elettricità' in May 2013.

This 2-day exhibition was organized by Barcella Elettroforniture, a well known wholesaler of electrical equipment in Bergamo, a city in the north of Italy. KNX Italy had its own booth, visited by about 400 visitors interested in the KNX technology and its broad opportunities. There was great success for the workshop 'How to sell KNX domotics and building automa-



Members of KNX Italy

tion', with over 100 participants from the worlds of electrical installation and planning. Fol-

lowing the excellent results obtained by the event, KNX Italy is strongly motivated to



pursue this strategy to expand its audience, by establishing good relationship with all the organizations involved in the home and building automation field.

**Contact person:**

Filomena D'Arcangelo

**Email:** [segreteria@konnex.it](mailto:segreteria@konnex.it)

**Website:** [www.knx.it](http://www.knx.it)

## KNX National Group Korea – Successful Year 2

Three years ago, KNX was an unknown technology in Korea. In a short time, KNX has developed to one of the most used technologies in Korea because of the continuous organizing of events and the active participation at exhibitions by KNX National Group Korea.

On March 8, KNX Korea gathered in order to vote again for the office bearers. Mr Seo (Unisys) as President, and Mr. Lee (Philips) as Vice President were confirmed, Mr Park (Kaiser Solution) will take over the office of the Secretary. After the KNX Korea meeting, the National Group organized the



Good atmosphere at the KNX Korea Meeting

3<sup>rd</sup> Korean Forum of KNX Technology and Application. The presentations by KNX Korea as well as the new associated part-

ner, TÜV Rheinland, attracted more than 100 participants. All in all, this forum underlined the growing importance of KNX as



the worldwide standard for the Korean market. Big plans have already been made for this year, which guarantee a more than positive outlook for the future of KNX in Korea.

**Contact person:**

Ik-Hwan Seo

**Email:** [info@knx.or.kr](mailto:info@knx.or.kr)

**Website:** [www.knx.or.kr](http://www.knx.or.kr)

## Convey facts about KNX

The various public events which are organized throughout the year from KNX Luxembourg always contain a KNX quiz about important KNX information. Thus, it can be relatively easily detected how many visitors already know KNX or how many want to get more knowledge about KNX.

During the '2013 my energy days' the quiz was also offered. Beside questions about energy efficiency with the KNX building system technology and questions about the general issues of the KNX standard, questions about KNX as a contact point in the country were also asked. In the presence of several board members, the chairman Marco Zenner gave the first prize, an



The chairman Marco Zenner gives the first prize to the lucky winner.

iPod, to the lucky winner.

Interesting information about KNX City was also given in

the public lecture, which was organized at this year's general assembly. Lutz Steiner, from



KNX International, knew how to reach the listeners in an appealing way with the various topics. He proposed a wide range from the basic knowledge of the KNX technology to the views of KNX City. Both events provided also the opportunity for a valuable knowledge exchange among people.

**Contact person:**  
Alphonse Massard  
**Email:** info@knx.lu  
**Website:** www.knx.lu

## KNX Roadshow Middle East – A successful pilot project

In 2013, KNX organized its first KNX Roadshow ever. This first KNX Roadshow was held from May 22 – 29 and included KNX Forums and KNX Technical Workshops.

The first of six events in the Middle East started with great success in Dubai! Around 100 representatives from manufacturers, system integrators, consultants and architects, etc. attended the KNX Forum at the Al Murooj Rotana. This KNX Forum focused on KNX solutions and applications, as well as on the KNX City, the concept for making the city smarter with KNX.

The KNX Technical Workshop in Dubai the following day, at which 30 participants from different companies attended created again high interest. The positive confirmations, the discussions afterwards and the desire to organize this event in the near future again showed that KNX is highly demanded in this market.



First Forum in Doha

The next stop of the KNX Roadshow Middle East was in Riyadh, the capital of Saudi Arabia. The participants of this event quickly expressed their interest in having more events in Saudi Arabia soon. In combination with the KNX Forum, the first KNX Technical Workshop in Saudi Arabia on the next day welcomed over 20 participants.

During the presentations, questions were raised and discussions held. All this made this event a very interactive event, which made it enjoyable not only for the participants, but also for the presenters.

The fifth event of the KNX Road Show Middle East took place in Doha, Qatar's capital and largest city. The KNX Forum



introduced all participants to the latest facts and figures of KNX International, as well as the active companies in the country, such as a KNX Training Centre and KNX Members. The 6<sup>th</sup> KNX event concluded the Roadshow on May 29. Without any doubt, this proved the success of the KNX Roadshow around Middle East having a remarkable support from all the active members of KNX Middle East.

**Contact person:**  
Taj Kollara  
**Email:** info@knx.ae  
**Website:** www.knx.ae

## KNX shows a sustainable face during EcoBouw2013

On September 17 – 19 KNX Netherlands will participate in the knowledge event EcoBouw 2013 in the annual trade fair in Utrecht. This event is part of the Dutch Green Building Week 2013. The Dutch Green Building Week is the national week which completely focuses on the theme of sustainable construction and EcoBouw is the central event. During the event, KNX will make an appearance at a stand, but KNX Netherlands will also provide some five lectures and presentations.

The KNX stand during EcoBouw will acquire a KNX City



EcoBouw 2013

character, following the KNX International's stand during the trade fair Light+Building 2012. Naturally, KNX will provide information about KNX and its activities. EcoBouw is geared towards providing as complete a picture as possible about sustainable solutions for the construction environment. And KNX is part of this vision. In addition to architects, technical advisors, structural engineers, building contractors and commissioners, such as housing corporations and project developers, also facility managers, building supervisors, associations, owners and CSR/sustainability managers will visit EcoBouw. These target groups are well in keeping with the new activities undertaken by KNX Netherlands. The goal is to constantly extend the familiarity with KNX in the market and primarily to become etched in the minds of commissioning and advisory parties as well as the planners.



### Contact person:

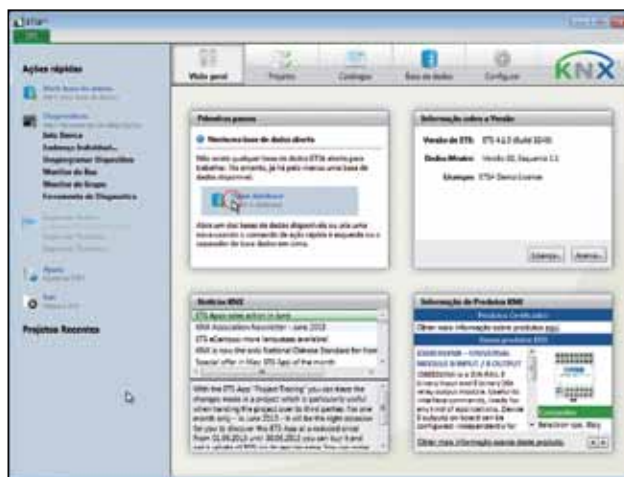
Rob Van Mil

**Email:** [info@knx.nl](mailto:info@knx.nl)

**Website:** [www.knx.nl](http://www.knx.nl)

## ETS4 – Easy, Fast, Open and now in Portuguese!

The Portuguese KNX National Group, in collaboration with the KNX International, translated the ETS (Engineering Tool Software) to Portuguese. This task took several months of work by the representatives of KNX Portugal. The release of the Portuguese language appeared for the first time in the ETS4, version 4.1.5, which was available on the market in the beginning of the year. The introduction of the Portuguese user interface will help the users of 'The worldwide Standard for home and building control' using the tool in their local language. From now on, they have the possibility to use this tool easily and efficiently.



The dashboard of ETS4 in Portuguese



This translation not only brings new opportunities to Portugal, but to all those countries where Portuguese is the spoken language, such as: Brazil, Angola, Mozambique, Cape Verde, Santo Tomé and Príncipe, and East Timor. They all can use the ETS4 in their native language.

### Contact person:

Rui Carneiro

**Email:** [rhcaneiro@agefe.pt](mailto:rhcaneiro@agefe.pt)

**Website:** [www.knx.pt](http://www.knx.pt)

## KNX Russia bursting the market

KNX Russia together, with the Russian leading Moscow State University of Civil Engineering, MSUCE, decided to implement a KNX training program for students. Starting in September 2013, KNX modules, practical exercises and exams will be obligatory for more than 800 students per year. The training room with eight multibrand stands will be updated with the new equipment from the current Russian KNX Members: ABB, Gira, Schneider Electric. All KNX training courses will be based on the equipment from these companies. Also, the showroom where KNX was demonstrated to the Russian government will be updated in the following months. On



The Moscow State University of Civil Engineering

another issue, KNX Russia has also been strongly promoting the KNX protocol to the commercial and residential construction market in the country. As a result, there are



three major projects in Moscow and St. Petersburg in which KNX will be installed. This achievement was reached thanks to the promotion and effort of KNX to investors and construction companies.

**Contact person:**

Andrey Golovin

**Email:**

golovin@konnex-russia.ru

**Website:**

www.konnex-russia.ru

## KNX Training Workshop at ITE College East Singapore

On March 15, KNX South East Asia hopped on the train of KNX events in Asia. 40 participants joined the KNX Training Workshop, which was organized by KNX SEA and the ITE College East, the first KNX Training Centre in the Asia-Pacific region. The participants were given insight to the KNX technology, its way of working and how KNX installations can be configured with the ETS4. The response for this event was very positive, which is why KNX



Lee Chee Meng explaining KNX and the ETS4



SEA will organize this event again on a regular basis and spread the knowledge about KNX.

**Contact person:**

Bernd Dluzak

**Email:** info@knx.asia

**Website:** www.knx.asia

## 5<sup>th</sup> KNX Congress in Barcelona

On June 26 – 27, KNX Spain organized the 5<sup>th</sup> KNX Congress on the premises of the Universidad La Salle, member of KNX Spain, in Barcelona. The main target of this event was focused on the KNX city solutions: 'KNX – from Smart Buildings to Smart Cities'. The total area (more than 1,100 m<sup>2</sup>) offered three spaces, one for the congress zone itself, one for the exhibition zone with 12 booths from the leading members of KNX Spain, and a more relaxing environment for the networking zone. With more than 460 people registered, including some architects, constructors



Conference area of the 5<sup>th</sup> KNX Congress in Barcelona

and maintenance engineers, this event in Spain was a good success for the Spanish KNX Community. In the afternoon of June 26 the KNX Spain General Assembly took place. As a normal GA, the members of KNX Spain reviewed the activities during the last 12 months, approved the past budget as well



as the new action plan for the forthcoming years. In addition, elections were celebrated with the result of a new President, Alvaro Mallol (Dicomat/Wago) and Vice President, Luis Catalán (Schneider Electric).

**Contact person:**

Michael Sartor

**Email:** info@knx.es

**Website:** www.knx.es



## The biggest Fair of the Nordic Countries

The largest electrical fair in the Nordic countries is ELFAK in Gothenburg, Sweden.

It runs for five days every second year and this year the event was in mid May. The official fair bag was the KNX bag and the visibility effect was excellent.

KNX Sweden had a visible booth just inside the entrance where the majority of approximately 25,000 visitors entered. This booth had several areas: The Swedish members area in which KNX products were shown at the panels of the booth, the presentation area in which KNX ETS4 eCampus, ETS4 and their new webpage ([www.knx.se](http://www.knx.se)); and the KNX Userclub area, where all their logos and as well their commercial presentations



Members of KNX Sweden: Stefan, Rikard and Andreas (from left to right)

on a big screen were shown as well. Finally, the popular KNX Starter Package was placed at the very visible 6m high KNX

tower, for visitors to have the opportunity to purchase it during the days of the exhibition. In addition to the KNX Booth,



KNX Sweden also offered interesting 1 hour seminars, with well known speakers Mr Jörgen Festervoll and Mr Darren Burford.

**Contact person:**

Andreas Helgesson

Email: [info@knx.se](mailto:info@knx.se)

Website: [www.knx.se](http://www.knx.se)

## KNX ETS 4 workshop for members

KNX Swiss organized an ETS4 workshop in Switzerland exclusively for their members

On the whole, ETS Professional is sufficient for the work with KNX installations. But similar to cellphones, the requirements and wishes for applications with special functionalities also increase for KNX. Since those cannot all be integrated into the ETS4 basic functionality, there are ETS Apps available from several developers on the KNX Online Shop, which provide these functionalities. Anyone who can work efficiently with these Apps, has advantages. This was the reason why KNX Swiss organized a workshop for its members. As a speaker, André Hänel, Tool Manager at KNX Association International, was the person in charge to show the main benefits of the ETS Apps. The workshop was a success and fully booked.



Representatives of the National Group KNX Swiss



André Hänel showed the practical and hidden things of the ETS4 as well as he introduced how to work more efficiently with the only necessary tool for commissioning. For example, the ETS App 'Extended Copy' was presented, which addresses to persons who need to edit projects with repeated copy operations.

**Contact person:**

René Senn

Email: [knx@knx.ch](mailto:knx@knx.ch)

Website: [www.knx.ch](http://www.knx.ch)

## KNX Taiwan – On the train of success

80 participants at the first KNX Taiwan event in February 2013 speak for themselves. The event, which was jointly organized by KNX Taiwan and its partner, the Taiwan Architecture and Building Centre, attracted manufacturers, integrators, developers, universities and further institutions. The event, which was held at the Regent Hotel, where celebrities like Michael Jackson and Madonna have stayed, reflected the importance of KNX in Taiwan and was the first event of many more to come in 2013. Currently scheduled are KNX Training



Big success for KNX Taiwan



Workshops, KNX Technical Workshops and participations at informative seminars. As the other Asian KNX National Groups, KNX Taiwan hops on the train of success.

**Contact person:**

Samuel Yang

**Email:**

samuelyang623@gmail.com

**Website:** [www.knx.org/tw](http://www.knx.org/tw)

## Brilliant start of the year for KNX UK

It has been a really great start to the year for KNX UK. The highlights have been a brilliant conference at The Crystal in London Docklands, which was well attended by delegates from the press and the building services industry. They found out how KNX is being successfully applied in this landmark building, which is recognised as a flagship of sustainability. Andy Davis, KNX UK Board Member, led the presentations and was ably supported by many other members of the very active Association. For the first time, KNX UK participated at the Greenbuild exhibition in Manchester, representing a great opportunity to get the KNX message across to professionals in the north of the UK. Meanwhile in the



KNX UK Members

Midlands, KNX UK members were once again out in force at the annual Building Controls Industry Awards, held in May

in Solihull. The evening was a great success and KNX UK was a really prominent sponsor of the event, hosting the very



popular drinks reception. “We now look forward to further major events in the second half of the year, including October’s Building Controls South exhibition, together with the further implementation of our on-going membership drive,” says KNX UK President Iain Gordon.

**Contact person:**

Tara Gartland

**Email:** [admin@knxuk.org](mailto:admin@knxuk.org)

**Website:** [www.knxuk.org](http://www.knxuk.org)



## New Training Centres


**BRAZIL**  
**ABB Brazil Ltda**


ABB Brazil has started its Official KNX Training Center which will first offer basic certified training courses, but in the future also advanced courses will be on the program. ABB Brazil is equipped with four training cases with several ABB i-bus KNX devices such as a universal dimmer, KNX/DALI gateway, switching actuator, meter interface, universal interface, control elements, logic modules and others, that could be carried to any place if neces-

sary. ABB Brazil started its KNX business in 2012 and has already prepared itself for KNX trainings. Moreover, its first KNX Official Course was held in April. The full range of KNX products is available on the Brazilian market in cooperation with the ABB Group companies (Stotz-Kontakt and Busch-Jaeger).

**Contact:** [www.abb.com/knx](http://www.abb.com/knx)

**UK**  
**ABB Coventry**  
**KNX Training Centre**


ABB is proud to announce the opening of the ABB Coventry KNX Training Centre. With this investment, ABB UK aims to raise the profile and increase the penetration of KNX into the UK intelligent building control market. A dedicated KNX team works on integrator support as well as project specification and training. At the new training centre, ABB will provide one day

introduction courses to M&E installers and consultants as well as potential investors, leading to the full KNX certified course. In addition to this, there will be continuous application and product training, and project support to existing integrators.

**Contact:** [ian.harding@ie.abb.com](mailto:ian.harding@ie.abb.com)

**SWEDEN**  
**ABB Sweden**  
**Training Center**


As one of the founders of KNX, ABB has had experience with KNX for over 20 years in Sweden. ABB Sweden has decided to start its own KNX certified training center to spread KNX knowledge to installers, planners, engineers and system integrators involved in the electrical field. ABB offers a 1 – 3 day training course for programming, and certified KNX Basic courses. ABB Sweden also offers the option of customized training, with the objec-

tive that the client can successfully bring KNX technology into practice. By attending the different training courses, customers can achieve the KNX partner certification and obtain an optimal mix of theoretical and practical instruments to propose, planning and commissioning a KNX installation in any application field for residential, commercial or industrial buildings.

**Contact:** [knx.utbildning@se.abb.com](mailto:knx.utbildning@se.abb.com)

**TURKEY**  
**ABB Turkey**  
**KNX Training Centre**


ABB is a leader in power and automation technologies. The ABB Group of companies operates in around 100 countries and employs more than 145,000 people. ABB technologies have been introduced in the Turkish electrical and industrial market since the 1940's. During the past 60 years ABB has been offering a wide range of

technologically innovative solutions to the Turkish market. ABB Turkey has decided to become a KNX Certified Training Centre to train Turkish installers to become certified KNX Partners.

**Contact:** [bulent.erdogan@tr.abb.com](mailto:bulent.erdogan@tr.abb.com)

**SPAIN**  
**ADIF – Centro de**  
**Formacion Tecnologia**


ADIF (Administrador de Infraestructuras Ferroviarias – 'Railway Infrastructure Administrator') is a Spanish public company that belongs to the Ministerio de Fomento – 'Ministry of Public Works'. Nowadays, ADIF manages 13,995 km. of rails and 1,566 train stations. The company is aware of the energy efficiency needs, the importance of smart metering, and the need for automation of its infrastructure with a standard system like KNX. ADIF

is one of the biggest IT providers in Spain with a turnover of 3 million Euros. ADIF Training Center has the objective to provide knowledge about building automation to the employees by means of certified KNX courses in order to allow them to put the KNX system into practice in their projects.

**Contact:** <https://cfv.adif.es/campusffe>

**FRANCE**  
**CFA Centre Alsace**  
**Marcel Rudloff**



The CFA Centre Alsace Marcel Rudloff in Colmar receives 1200 apprentices from level five to level three. The Electrical Engineering department consists of 180 electricians. Given the technological development and the needs of the companies with whom they have a close relationship, they decided a few years ago to offer their students and trainees technical management education. The latest thermal requirements and decisions for the environmen-

tal impact motivates them to extend the training with KNX certification, which is open to every professional. Their 'Pole Energies et fluides', which is equipped with the latest technologies in terms of energy savings, is completely managed by KNX and is a concrete example of GTB and its applications.

**Contact:** [directeur.cfamr@orange.fr](mailto:directeur.cfamr@orange.fr)

**UK**  
**City College Plymouth**



City College Plymouth with sponsorship from ABB and Western Electrical have launched a new KNX training centre. The training centre is based within the newly constructed ABB Energy Centre and will offer the accredited KNX Basic course and a number of one day courses focusing on particular KNX technology including: lighting control, heating control, security, weather sensor applications, touch screen

technology and remote control using iPad/iPhone/smartphone applications. The centre will also offer an one stop shop facility for local companies wishing to use KNX technology supported by ABB, local southwest distributor Western Electrical and training and technical support from City College Plymouth.

**Contact:** [www.cityplym.ac.uk](http://www.cityplym.ac.uk)

**POLAND**  
**Centrum Kształcenia**  
**Praktycznego we**  
**Wrocławiu**



CKP is a vocational training school in Wrocław that offers electrical occupations, mechatronics and automation. According to its statutes, the institute provides its students with knowledge of the latest trends. They want every student to come in contact with the KNX technol-

ogy and to obtain practical skills by learning how to make KNX installations via the certified KNX training. Their students can now receive the status of KNX Partner after successfully completing the exam.

**Contact:** [www.ckp.pl](http://www.ckp.pl)

**ITALY**  
**Domofox s.r.l.**  
**centro formazione e**  
**certificazione KNX**



Born out of passion for technology, Domofox is a company that operates in the field of home and building automation, with KNX and Crestron, on the Italian market with over ten years of experience, with many installation projects of varying complexity. Always on the cutting edge, step by step they have won over the Italian market with the reliability and confidence of their customers. Domofox not only offers a training service, but being a

KNX dealer and a system integrator, can create a complete service to all users, even with no previous experience in the KNX field. Their goal is to propagate the KNX world and give a chance to all those who are interested in becoming KNX certified partners closer to their homes, which means less expenses.

**Contact:** [www.domofox.it](http://www.domofox.it)

**GERMANY**  
**Heinrich Hertz Schule**



The Heinrich Hertz-school is one of the biggest vocational schools in Baden-Württemberg. As an electrical engineering school almost all students are educated on energy, communications and information technology. Every year, about 500 trainees acquire their degree at the school. KNX has been an integral part of vocational training amongst other systems. Also in the College of Engineering and Profession-

al Preparation, KNX basic principles are part of the education. A KNX certificate could previously only be attained at one of their business partners. To be more independent, the Heinrich Hertz school will organize their own KNX certified training courses in the future.

**Contact:** [www.hhs.karlsruhe.de](http://www.hhs.karlsruhe.de)

**SPAIN**  
**HogarTec**



After having spent five years working for a previous training centre, HogarTec decided to start teaching KNX on their own. They have been teaching installers, engineers and many other professionals involved in the building sector, not only about KNX, but many other technical subjects. With experience in both training and KNX engineering, they decided to start training using the facilities of different engineering and electrical associations, as well as technical schools

and engineering and architecture universities. This is done with portable training stations to provide the students with all the necessary devices, with IP interfaces connected to Wi-Fi routers making the connection with the training stations easier. HogarTec offers their wide KNX experience in training courses on the customers' premises, so costs can be reduced.

**Contact:** [www.hogartec.es](http://www.hogartec.es)

**UK**  
**Home of Technologies Limited in partnership with PME Limited**



PME Limited (Contracting, Design, Project Management, Smart Buildings division) along with Home Of Technologies Ltd (training and distribution division) have been operating on the UK market since 2005, supporting individual customers, integrators, and developers with home and building automation technologies. Their management standards are concentrated on quality control and allow for smooth transition through all stages and processes

of system composition specifications according to client's requirements, custom design, components specification and distribution. For all integrators and developers they offer additional packages covering site visits and trainings, live support of all programming aspects, help with creation of applications in ETS4.

**Contact:** [www.pmelimited.co.uk](http://www.pmelimited.co.uk)

**GERMANY**  
**Innung für Elektro- und Informationstechnik Augsburg**



For 20 years, the 'Innung für Elektro- und Informationstechnik Augsburg' has been offering KNX basic courses with certification. 2 – 3 times KNX basic courses are held at the premises. The theoretical part is conducted by a certified KNX Tutor, the practical part of the training given by teachers with a basic course certificate. The certification was performed by a certified KNX training centre. KNX user workshops by various manufacturers can

always count on a lot of interest by the members of the guild. Upgrade courses from ETS2 to ETS3 and ETS3 to ETS4 are also offered and have been very well received thus far. During one day seminars about Busch Powernet® KNX, participants can experience how easy it is to implement modern comfort in their own homes.

**Contact:** [www.elektroinnung.org](http://www.elektroinnung.org)

**GERMANY**  
**Innung für Elektro- und Informationstechnik Schweinfurt**



For decades, the 'Innung für Elektro- und Informationstechnik Schweinfurt' has been a reliable partner in education and training for its members. With an extended spectrum over all electrical trades they carry out training with a focus on standards, automation, network technology, and building system technology as priorities. Since the start, they have dealt with the different bus technologies and given

seminars about the various systems and their synergies in home and building engineering. Today, KNX in particular is an essential part in the education. This knowledge will now also be shared via their own certified KNX seminars.

**Contact:** [www.elektroinnung-sw.de](http://www.elektroinnung-sw.de)

**AUSTRALIA**  
**KNX Engineering Pty Ltd**



KNX Engineering is ready to unveil its brand new state of the art training and showroom facility located in Fortitude Valley, Brisbane. The facility will be the first of its kind in Australia and will be a complete end-to-end solution for all the training requirements on the KNX platform. KNX Engineering showcases the latest in KNX Technology from trusted manufacturers such as Siemens, ABB and many other vertical market focused manu-

facturers displayed in a user-friendly, fully functional environment. The training facility is approximately 250m<sup>2</sup> in size and encompasses a 20 person board room table, full kitchen facility and a dedicated showroom available for manufacturers to display their unique solutions to the Australian market place.

**Contact:** [knxengineering@knxaustralia.net.au](mailto:knxengineering@knxaustralia.net.au)

**COLOMBIA**  
**KNX Training Center**  
**Colombia**  
 (by Domonetio)



KNX Training Center Colombia is the first training center in Colombia set up by Domonetio, the consulting company specialized in smart homes, smart buildings and smart cities. The main goal of the training center is to provide knowledge in the field of KNX in order to promote the business development in Colombia and Latin America. To teach participants how

to sell, how to promote or how to set up a company around KNX is their main objective. KNX Training Center Colombia's students will not only get the knowledge but also the skills to develop their own business ideas around the KNX technology.

**Contact:** [www.knxtrainingcenter.com.co](http://www.knxtrainingcenter.com.co)

**QATAR**  
**KNX Training Centre**  
**Doha**



The KNX Training Center Doha is the first training center in Qatar duly accredited by KNX Association to offer the KNX Basic course and hand out KNX certificates. In the business of modern automation systems, it is important to keep ahead of the competition by providing the best information and training for your employees who deal with home automation technology. That's why the KNX Training Center

Doha has trainee desks with up-to-date devices allowing the trainee to practically test his knowledge of programming KNX devices. The lecturers work with the latest material at all times and are constantly in contact with the development department and strike the right balance between theory and practice.

**Contact:** [www.almazrouicas.com](http://www.almazrouicas.com)

**KUWAIT**  
**Kuwait KNX Training**  
**Center (KKTC)**



The Shuwaikh Industrial Institute (IIS) in Kuwait, in cooperation with GIZ Eschborn, educates young Kuwaitis in various professions, including electrical engineering. Students of the electrical department are taught about KNX during their 6<sup>th</sup> semester in a well equipped laboratory and get a first overview of the many uses and functions of the KNX technology. In

this way, the graduates of IIS can use their knowledge on the professional market of Kuwait, which is constantly growing. That is why the KNX training center in Kuwait was established. Now the KNX Basic courses at IIS are also offered for interested professionals of the electrical sector.

**Contact:** [yb.almutairi@paet.edu.kw](mailto:yb.almutairi@paet.edu.kw)

**INDIA**  
**Light and Magic Technol-**  
**ogy Centre**



Light and Magic Technology Centre is a division of Light and Magic Automation (LNM). LNM is focused and dedicated to provide various solutions using the KNX platform. Light And Magic Technology Centre aims to train individuals from different

sectors and have them gain knowledge and interest about the KNX technology so they will be able to use the system on their own in a professional way.

**Contact:** [www.advancedindia.com](http://www.advancedindia.com)

**SPAIN**  
**SAPIENX –**  
**Advanced KNX Training**

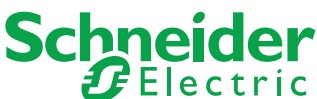


SAPIENX – Advance KNX Training is a Training Center and Consultancy bureau, part of the Spanish Engineering company DOERCO, who won a KNX International Award in 2012. SAPIENX is devoted to become a reference on all levels of KNX Training Worldwide. They have been KNX Tutors since 1998 and have experience in management of big KNX projects. At SAPIENX they also offer special training for big KNX projects as they are So-

lution Partners of NETxAutomation for Spain, Portugal and South America. They will conduct the certified KNX Basic and Advanced training in Spanish and English, both in Presence or Blended format. They can also organize certified KNX Tutor courses, and are ready to give special trainings based on smart metering, smart grids and smart cities.

**Contact:** [julio.diaz@sapienx.es](mailto:julio.diaz@sapienx.es)

**BRAZIL**  
**Schneider Electric Brazil**



The official KNX courses from the Schneider Electric Training Centre Brasil will be organized to educate engineering companies, installers, system integrators, etc., and provide the knowledge needed to configure, maintain and manage the Schneider Electric KNX product portfolio with efficiency as well as quality. They especially equipped

training rooms for certified KNX training, with media equipment, proper training documentation, training equipment with KNX components (dimming and switching actuators, shutter actuators, etc.), all available for didactic purposes during the course.

**Contact:** [www.schneider-electric.com.br](http://www.schneider-electric.com.br)

**UAE**  
**Siemens LLC KNX**  
**training centre (Dubai)**

**SIEMENS**

The training centre in Dubai will conduct both certified KNX basic and advanced trainings for various partners and system integrators in the lower gulf region. The aim is to promote KNX green technology by conducting certification trainings to various partners, end users and consultants.

**Contact:** [www.suhel.rashid@siemens.com](mailto:www.suhel.rashid@siemens.com)

**SINGAPORE**  
**The Siemens Center,**  
**Singapore**

**SIEMENS**

As part of the ongoing roll-out of the GAMMA KNX solution to the ASEAN region, Siemens is opening a certified training centre at its regional headquarters in Singapore. Since welcoming the GAMMA KNX system into its Building Technologies Division's product offer, the regional team has been making strides to support new and existing partners to add the KNX

system to their range. In doing so, Siemens partners could offer greater value to their customers by deploying solutions that optimize a building's most energy intensive assets, HVAC and lighting in an intelligent way.

**Contact:** [gabriel.soh@siemens.com](mailto:gabriel.soh@siemens.com)

**SWEDEN**  
**Syddansk Erhvervsskole**



SDE College offers 45 different programmes under vocational education divided into ten main fields. They also offer upper secondary technical education in both Odense and Vejle. The KNX training centre is located in the department of electricians in Odense where they train electricians specializing in building automation, installation, engineering and management and control technology. KNX has been part of the electrician training and as

a certified KNX Training Centre for many years and their apprentices now have the opportunity to achieve the KNX basic course certificate as part of their training. SDE College offers electricians the option to specialize in building automation. The specialization contains among other KNX and visualization of KNX installations, HVAC systems, and burglar alarms.

**Contact:** [swj@sde.dk](mailto:swj@sde.dk)

**SPAIN**  
**Escuela de Ingenierias,**  
**Universidad de Malaga**



The School of Engineering at the University of Malaga organizes training activities for industrial engineers from different fields. Professional training in domotics is included among this program, providing supplementary KNX Basic and Advanced courses to enhance their student's skills on

such technologies. Furthermore, a master's degree on domotics from the University of Malaga containing the KNX advanced training is also offered.

**Contact:** [aalaknx.uma@2007idg.es](mailto:aalaknx.uma@2007idg.es)

**AUSTRIA**  
**WIFI Niederösterreich**



The Institute for Economic Development in lower Austria (WIFI) is part of the Chamber of Commerce in lower Austria. It is a leading institute for electrical engineering with excellent teaching equipment in that area. The training center is situated

in St. Pölten and is easy to reach from all over eastern Austria. At the moment they offer KNX Basic course and can accommodate up to six students.

**Contact:** [www.noe.wifi.at](http://www.noe.wifi.at)

**GERMANY**  
**Woertz Systemhaus**  
**MBA AG**



Since 2008, Woertz Systemhaus MBA AG has been responsible for the distribution of KNX products in Germany, among other things for Woertz AG of Switzerland. With this task, Woertz Systemhaus MBA AG has been able to participate in the planning and support of many successful projects with KNX installations. At the

company headquarters in Eisenach, KNX Basic courses with KNX Partner certificates after completion have been offered since 2013. These courses can be held both at the company headquarters in Eisenach, or in the Rhine-Main region.

**Contact:** [www.mba-ag.com](http://www.mba-ag.com)



## New Scientific Partners


**PORTUGAL**  
**Polytechnic Institute**  
**of Coimbra**


Coimbra Institute of Engineering (ISEC) was created December 31, 1974 as an engineering institute of higher education. ISEC offers degrees in civil, electrical, mechanical, chemical, electromechanical and computer engineering. ISEC is currently integrated at the Polytechnic Institute of Coimbra. Electrical engineering related courses are lectured in the robotics, automation, telecommunications and energy systems areas. The syllabuses include European MSc courses in which students

attend lectures in different countries. In the Electrical Engineering department (DEE), home automation is an integrant part of a number syllabus that includes KNX training. A number of KNX projects have been developed that include lighting, heating and climate condition control of operational classrooms. DEE is currently undertaking the implementation of a KNX software stack.

**Contact:** [aalmeida@isec.pt](mailto:aalmeida@isec.pt)

**GERMANY**  
**Fachhochschule Köln**


Cologne University of Applied Sciences (CUAS) is the largest university of applied sciences in Germany. The university offers a broad range of high quality courses and research possibilities. In the area of research and development, too, Cologne University of Applied Sciences is continually taking on new challenges. The transfer of research and technology comprises products, processes and services from

every branch of science represented in the University. The Institute for Energy and Building Technology was established in 2013, with a laboratory especially for building security, home and building control. Students can obtain a bachelor's or master's degree of engineering.

**Contact:** [joerg.reintsema@fh-koeln.de](mailto:joerg.reintsema@fh-koeln.de)

**GERMANY**  
**Hochschule Kempten**


At the computer science faculty of the University of Applied Sciences in Kempten, several KNX systems were built in early 2013, which are used in lessons and for research. For example, this is used to create programs for remote control of networked home bus systems and to discuss the necessary cross technology concepts in the exercises for distributed software systems. Conform to topics 'Networking' and 'Software development' which are settled in the field of 'Distrib-

uted Software Systems' the communication and the startup of KNX devices is acquired in an own software approach in terms of slim and efficient systems. In addition they develop special KNX devices, appropriate operating systems and secure runtime environments themselves, so that all relevant areas in the point of view of computer science are covered, from the idea to the product.

**Contact:** [stefan.frenz@fh-kempten.de](mailto:stefan.frenz@fh-kempten.de)

**SWITZERLAND**  
**University of Applied**  
**Sciences Western**  
**Switzerland HES-SO/**  
**Fribourg**


The institute is involved in the Swiss Green-Mod R&D project. The Green-Mod project aims at the elaboration of information systems able to optimize the energy consumption in a building while preserving human comfort. The main innovation is the realization of reliable stochastic data driven models applied to temporal signals acquired from heterogeneous sources such as distributed sensors, weather web services, calendar information and user triggered events. Target: global, instead of local,

optimization of building automation sub-systems; generalization to unseen building configurations; better coping with seasonal and building activity patterns. The Green-Mod project will be applied to existing buildings already equipped with extended networks of sensors running on KNX, as well as new building technologies for which gateways will be built in the project.

**Contact:** [gerome.bovet@hefr.ch](mailto:gerome.bovet@hefr.ch)



**CHINA**  
**Shenyang Jianzhu University**



The College of Information and Control Engineering is part of the Shenyang Jianzhu University. Information College is the earliest one of units in China which develops the state of art intelligent building control and information technologies and provides high quality education and training. The main research directions include home and building control, bus systems, wireless communication and wireless sensor networks, modeling, analysis, and performance evaluation of communica-

tion process, intelligent control technology of construction equipment, building environmental monitoring and control technology, computer graphics and image processing technology, data integration technologies and services, etc. Information College presides over all activities of Intelligent Building Technical Committee of Liaoning province.

**Contact:** [luanfangjun@sju.edu.cn](mailto:luanfangjun@sju.edu.cn)

**SINGAPORE**  
**Singapore Polytechnic**



Singapore Polytechnic (SP) was the first polytechnic in Singapore. Established in 1954, it has provided education and training for about 150,000 skilled personnel to spearhead in wide ranging industries. The School of Electrical & Electronic Engineering (SEEE) of the SP, one of the most established engineering schools in Singapore, offers seven fulltime diploma programs plus a number of specialist and advanced diplomas. Singapore Polytechnic has been actively supporting KNX. Their

2<sup>nd</sup> year students in electrical & electronics engineering and clean energy diploma will be exposed to the fundamental applications of the KNX technology in their course of study. In addition, there are final year students implementing projects in home automation aspects using KNX technology. Some of the qualified staff are officially KNX certified.

**Contact:** [limbt@sp.edu.sg](mailto:limbt@sp.edu.sg)

**FRANCE**  
**Université de technologie de Compiègne**



Université de Technologie de Compiègne prepares students to obtain an urban systems engineering degree. One of the subjects focuses on new technologies for smart cities, intelligent buildings, efficient building automation and control systems. Several technologies, which have been specially developed for building automation, amongst others KNX, are studied

in detail. The goal is to value the adequacy between these systems and the performances needed for interaction with the building environment. A further research emphasis is the control of KNX technology for smart buildings coupled to smart grid.

**Contact:** [manuela.sechilariu@utc.fr](mailto:manuela.sechilariu@utc.fr)

## ETS Apps and KNX city: Two new flyers for KNX



Two new KNX flyers are now available. On the one hand the ETS Apps flyer, informing you about the ETS Apps you can buy in the KNX Online Shop. On the other hand the KNX City flyer, which informs you about the prerequisite for achieving sustainable cities, i.e. sustainable buildings. Smart cities call for interdisciplinary solutions spanning over buildings, mobility, energy, infrastructure and communication, each of the elements equally needed. This is referred as a system approach. The flyers are already available in two languages: English and German.

### You can order the brochure for free at:

**KNX Association**  
De Kleetlaan 5 Bus 11  
B- 1831 Diegem-Brüssel  
Belgium

**General contact:**  
Tel.: +32- (0)2 - 775 85 90  
Fax.: +32- (0)2 - 675 50 28  
E-mail: [info@knx.org](mailto:info@knx.org)

[www.knx.org](http://www.knx.org)

KNX Userclub / KNX Professionals



**KNX Professionals working year 2013 lifts off**

Traditionally the first activity of the year is the presence at the biggest construction fair in Belgium, Batibouw. For the third year in a row, the KNX Professionals were present at the KNX booth for 11 days to inform the public about KNX and its solutions. On the occasion of the Batibouw, they could look back on meeting very interesting contacts, which resulted in the arising of many KNX projects.

Mid March, a delegation of the KNX Professionals was present at the Fedelec Speeddate event. This was a great opportunity to get in contact with schools and a large group of electricians to put KNX and its possibilities in the picture. Especially the link between KNX, fire detection and alarm security techniques



KNX Professionals at the Fedelec Speeddate event



was heavily discussed. The second quarter was mainly devoted to recruiting new members. The working groups are again fully active with the organization of upcoming activities. Even preparation for Batibouw 2014 has already started.

**Contact person:**  
Hannelore Verdonckt  
**Email:**  
info@knx-professionals.be  
**Website:**  
www.knx-professionals.be

**Summer, Sun and Wind on Templiner Lake**

This year's meeting of the KNX Professionals Germany was held in Potsdam on Templiner Lake. The first day began with a presentation about motorization solutions and hanging systems by Jürgen Westphal and Mike Dornberger from Somfy. They introduced the overall concept for a project that used the 'animeo KNX' system developed by Somfy. Eugen Streicher from Jung provided insight on indoor climate parameters, ventilation signals, indoor air quality according to DIN 13779, and air humidity. He also introduced a climate sensor which has multiple parameters at its disposal that make intelligent building ventilation possible. Good lighting is a critical element of comfort and also plays a significant role in defining our daily rhythm. With



KNX Professionals Germany gathered in front of the hotel on Templiner Lake

the vitaLED system, a cooperative effort between Jung and Brumberg by means of a Facility Pilot – the individual control of the system is possible. Tim Skrok from iKNiX introduced an App for the control of lighting, blinds and heating, which is available at no cost. The visualization was crea-

ted for iOS, Android, PC and Mac. The conclusion of the first training day was led by Peter Koschate from IFEU (Engineering Association for Energy and Environmental Technology). He explained how the modification of the outside temperature affects the room controls and the heating system, and how the



energy consumption could be reduced taking into account solar gains. The group spent the evening together in the historical heart of Potsdam in the restaurant 'Kutschstall' (Carriage House). The members planned to spend Saturday morning discussing the interests of the association.

**Contact person:**  
Dirk Müller  
**Email:**  
info@knx-professionals.de  
**Website:**  
www.knx-professionals.de

## The Odoo House, the perfect KNX showroom in Hungary

After the successful participation in the Solar Decathlon Europe 2012, the Odoo House has been installed at the court of the Budapest University of Technology and Economics (BME). This offers a perfect way to measure and show, via the display panels and PCs, all the consumption on real time, such as heating/cooling, ventilation and the electricity, from the house. The representatives of the project (60 students and seven professors) in collaboration with the KNX Userclub Hungary members organized workshops and visits to show the technical solutions. Moreover, Siemens Hungary has organised three work-



*Presentation about the competition*



shops in the last months. The KNX Userclub Hungary also had the opportunity to show the installation to designers, architect and professional. Without any doubt, this will help in promoting KNX in the country.

**Contact person:**

*Bate Gyorgy*

**Email:**

*bate.gyorgy@termicont.hu*

**Website:** *www.installateur.hu*

## KNX Netherlands expands scope

KNX Netherlands is going to orient itself towards advisors in 2013 in addition to the already existing target groups. KNX Netherlands will organise an Advisors' Meeting on November 5 especially for this target group where the possibilities and advantages of KNX will be brought into the limelight. For that matter this event is also suitable for KNX Professionals. Bringing both groups in contact with each other is mutually beneficial for everyone.

It appears that system integrators and installers have in the meantime become familiar with the benefits that the application of KNX offers. The advice world, however, appears to be for the most



*Delegates at the KNX Professionals event*

part still in the dark, which is reason enough for KNX Netherlands to approach this target group. This new activity does not mean that other events or meetings will be

discontinued. Naturally KNX Netherlands will still organise the by now familiar activities for KNX Professionals. The KNX network days – LED lighting in March and the



Linking the Electrical installation and HVAC with KNX in June – were well attended, the magazine KNX MAG has a greater orientation towards the various sorts of final users and KNX also puts in an appearance at the relevant trade fairs and events.

**Contact person:**

*Rob van Mil*

**Email:** *info@knx.nl*

**Website:**

*www.knx-professionals.nl*

## KNX at International Conferences / Fairs

Tokyo (Japan)

### KNX in Japan

KNX has now hosted its first events in Japan. The interest for KNX exceeded all expectations. 51 representatives from the Japanese industry, press and government participated at the first Japanese KNX Forum, which consisted of presentations from the KNX International, its members and partners. Also the live demonstration of KNX generated very high interest from the audience. Due to the successful result, KNX will deepen the focus on the Japanese market. Next to the KNX Forum, KNX International participated at the International Smart Grid Expo



KNX Forum in Yokohama

in Tokyo. Not only was the booth of the KNX International very well visited, also the KNX presentation at the fair's parallel organized seminar was attended by more listeners than any other seminar's presentation. At the end, 80 excited visitors listened to the KNX presentation and went into direct discussion with the KNX International's representatives. This great success of all KNX activities is proof that Japan is longing for a worldwide standard; Japan is longing for KNX.

Contact: [info@knx.org](mailto:info@knx.org)

Hong Kong (China)

### Hong Kong – A success that surprised!

KNX organized “The First Hong Kong Forum for KNX Technology and Application” at InnoCentre in Hong Kong. Being the first event ever in Hong Kong, the amount of more than 90 participants exceeded all expectations. Although building automation is not widely spread in Hong Kong, the event underlined the worldwide raising demand and need for KNX.

Prior to the KNX Forum, the Hong Kong KNX commu-



The participants of the first Hong Kong Forum for Technology and Application

nity gathered together in order to discuss the foundation of a KNX User Group, which will promote KNX on a local basis. Further events are currently in discussion, and we are looking at a great future in Hong Kong.

Contact: [info@knx.org](mailto:info@knx.org)

Singapore (Republic Singapore)

### KNX Training Workshop at ITE College East Singapore

On March 15, KNX South East Asia hopped on the train of KNX events in Asia. 40 participants joined the KNX Training Workshop, which was organized by KNX SEA and the ITE College East, the first KNX Training Centre in the Asia Pacific region. The participants were given an insight of the KNX technology,

its way of working and how KNX installations can be configured with the ETS4. The response for this event was very positive, which is why KNX SEA will organize this event again on a regular basis and spread the knowledge about KNX.

Contact: [info@knx.asia](mailto:info@knx.asia)



Lee Chee Meng is explaining the KNX Technology and the ETS4

Guangzhou (China)

## KNX China welcomes visitors at recent GEBT Fair in Guangzhou/China

The four day Guangzhou Electrical Building Technology Fair in China took place June 9 – 12, 2013. As it had been the case in 2012, KNX China again welcomed the visitors in Hall 6.1 with its own booth. This specific hall at the fair was again entirely devoted to home and building control. This year's KNX China booth consisted entirely of panels, where KNX China members could present their latest



Interested customers collecting their information package at the reception desk.

KNX solutions. Some other members had opted for an own booth in the same hall, amongst others the local representation of European KNX manufacturers like Siemens, Wago, Philips and IPAS but also the well known Guangzhou KNX Members GVS, HDL and the recent new KNX member Seyoung Electronics.

**Contact:** [info@knxchina.org](mailto:info@knxchina.org)

Leipzig (Germany)

## KNX at WorldSkills 2013

From July 2 – 7, 2013 the WorldSkills Competition was held in Leipzig. The best international trainees aged below 23 competed for medals in 46 official disciplines. Over 1,000 competitors from 52 countries made WorldSkills Leipzig 2013 the biggest international competition of its kind ever held. KNX was again selected as the only technology to be used in the electrical installation category. In concrete terms the KNX module consisted of controlling a simulated office by programming: push buttons, switching and energy actuators, KNX/DALI gateway, shutter actuator, weather station, dimming actuators, etc. All competitors achieved ex-



The 31 competitors of discipline Electrical Installations (KNX).

tremely high standards of craftsmanship, with the eventual worthy winners being Mizuki Sakamoto of Japan (Gold Medal), Samuel Schenk of Switzerland (Gold Medal) and Sang Yeon Won of Ko-

rea (Bronze Medal); Oskar Sjögren of Sweden (Bronze Medal) and Matthew Crane of United Kingdom (Bronze Medal). Our grateful thanks go to all KNX Members (ABB, Hager, Jung, Siemens, Schnei-

der Electric and Theben) who supported this competition, as well as to all competitors and experts for their extraordinary efforts.

**Contact:** [info@knx.org](mailto:info@knx.org)

Frankfurt (Germany)

## KNX at ISH 2013

KNX Association was well represented at the most important trade fair for HVAC in Europe, the ISH fair held in Frankfurt/Main, Germany from March 12 – 16. The presence of KNX Association is six times bigger in size (more than 150 m<sup>2</sup>) compared to ISH 2011. Also the participation by KNX Members and staff at the booth has been increased. Topics shown at the booth are the KNX City concept, ETS Apps, KNX ETS4 eCampus and a 'KNX Develop-



The KNX booth at ISH 2013

ment Getting Started' corner. Eight KNX Members presented their own solutions at various totem points at the KNX booth. These included ABB, Domatoca Global Solutions, FieldServer, ise, Siemens AG, Sinapsi, STG beikirch, VISAM, Zoppas Industries as well as the KNX Professionals Germany. In addition, a common solution to couple the KNX & Open-therm was shown at the booth.

**Contact:** [info@knx.org](mailto:info@knx.org)

Amsterdam (The Netherlands)

### KNX Association at ISE 2013

From January 29 – 31, the ISE fair (Integrated Systems Europe) took place at the RAI in Amsterdam (The Netherlands). KNX International was present with a booth that was visited by 44,000 people from 130 countries.

Representatives of KNX Member companies iKNiX, Divus, tci and Domatica were present at the booth to show Audio/Video solutions with KNX. The certified KNX



Visitors of the ISE 2013 fair at the KNX booth

training centre Domonetio offered KNX introduction courses of one hour to visitors.

Other KNX member booths like iSimplex, basalte, Jung, HDL,... surrounded the KNX booth, which greatly increased the visibility of the KNX Standard during ISE.

**Contact:** [info@knx.org](mailto:info@knx.org)

Köln-Poll (Germany)

### TÜV Rheinland LGA Products GmbH opens their first KNX accredited test lab

TÜV Rheinland LGA Products GmbH presented its new KNX test lab accredited for KNX interworking and functionality tests. The global testing service provider is pleased to extend its competence in the area of product security with an additional and attrac-



The newly founded KNX accredited test lab at TÜV Rheinland LGA Products GmbH

tive customer service.

As contact persons, Ingo Müller and Daniel Winter of TÜV Rheinland LGA Products GmbH can serve all the requests for product testing.

**Link:** [www.knx.org/knx-certification/test-labs](http://www.knx.org/knx-certification/test-labs)

Regensburg (Germany)

### Tapko Technologies joins the ranks of the KNX accredited test labs

At the end of April 2013, the company which has demonstrated its merits as one of the most well known KNX system platform providers, successfully completed the ISO 17025 audit conducted by the KNX audit team of its newly set up KNX test lab. Thus, Tapko Technologies be-



Head of the KNX test lab, Petar Tomić and the KNX test engineer, Manouchehr Golzar.

came one of the European but also worldwide KNX accredited test labs to achieve the status of test lab accredited both for Interworking/Functionality as well as Lower Layer testing.

**Link:** [www.knx.org/knx-certification/test-labs/](http://www.knx.org/knx-certification/test-labs/)

Burgkirchen an der Alz (Germany)

## Weinzierl Engineering becomes 10<sup>th</sup> KNX accredited test lab

On June 19 – 21 a successful audit was conducted by the KNX audit team at the newly founded KNX test lab at Weinzierl Engineering in Germany in order to check its conformity to ISO 17025 as well as its aptitude to conduct KNX conformity testing. Consequently, Weinzierl Engineering – already well



KNX audit team together with CEO Thomas Weinzierl, the KNX test Engineer Stefan Matsche and the Head of the KNX test lab, Elena Eckbauer

known as one of the providers of KNX stacks for many microprocessor platforms – became the 10<sup>th</sup> KNX accredited test lab, in this specific case the 5<sup>th</sup> test lab to be able to perform KNX Lower Layer tests.

**Link:** [www.knx.org/knx-certification/test-labs/](http://www.knx.org/knx-certification/test-labs/)

Dubai (UAE)

## Successful KNX Tutor Course in Dubai

Training is considered one of the most important goals to be carried out in countries where KNX begins its market penetration. The last training course was held in Dubai, one of the emirates that make up the country of United Arab Emirates. The course, was organized for members of KNX Middle East, welcomed seven participants from different countries in the area of Middle East: United Arab Emir-



Seven Tutor candidates from the Middle East

ates, Kuwait, Qatar and Saudi Arabia. All participants were highly motivated, proven by their successful completion of the course thanks to prior preparation. The new KNX tutors will establish new KNX training centres in the coming months, giving new training opportunities to those interested in the Middle East region.

**Contact:** [info@knx.org](mailto:info@knx.org)

Guangzhou (China)

## KNX International organizes renewed KNX tutor crash course in China

Following public demand and subsequent to the GEBT Fair in Guangzhou, KNX International again organized a KNX tutor crash course for potential new KNX tutors for forthcoming KNX training centers in Asia. This time the KNX tutor crash course was hosted by TÜV Rheinland in its premises in the outskirts of Guangzhou, with a total of 14 students. These attendees not only



The 14 candidate tutors after their first course day.

came from different Chinese cities (Shenzhen, Shanghai, Hangzhou, Beijing, ) and other Asian cities (Kuala Lumpur), but also from different backgrounds: KNX Members like ABB, Schneider, Hager, Philips but also from the Malaysian integrator company Seikou Systec and from the test labs TÜV Rheinland itself and ITEI.

**Contact:** [info@knx.org](mailto:info@knx.org)

Paris (France)

## KNX Brussels organizes KNX Tutor Crash Course at Lycée Louis Armand Paris

In order to further boost the number of training centers in the French market, KNX has again organized a KNX tutor training from May 21 – 23, this time at the Lycée Louis Armand in Paris. With a total of nine participants coming from both the Lycée itself as well as from the company Architecture Numérique and a new candidate tutor for the already certified KNX training center of Schneider Electric, the candidate tutors attended two days of intensive training



KNX candidate tutors.

with a concluding third day of theoretical and practical exam. As a result, both the Lycée as well as the company Architecture Numérique now have the necessary qualifications to consider applying to become one of the next KNX certified training centers in the capital of France. Also, the Schneider Electric France certified KNX training center has now one more qualified tutor.

Contact: [info@knx.org](mailto:info@knx.org)

London (UK)

## London, A Meeting Point of Potential Tutors

Following the plan of expanding the KNX training centres around the globe, KNX International has trained new tutors in London that will be establishing KNX Training Centres in different locations. At this time, KNX International delivered a KNX training session to Ron Stocks, from the Red Deer College in Canada, which will be the first training center in the country; Per Svensson, who will be assisting the KNX training courses at the KNX training



The four participants of the KNX Tutor course in London.

centre EUU (the official school in touch with KNX Sweden); Alan Crooks from the City College Plymouth in England who also established his school as a certified KNX training centre; And finally, Raffaele Sartori from DomoFox, who is interested in the establishment of a KNX training centre for KNX Basic and Advanced courses with mobile working stations to move around the countries.

Contact: [info@knx.org](mailto:info@knx.org)

Brussels (Belgium)

## KNX ETS eCampus now available in 17 languages

The eLearning tool 'ETS eCampus' from KNX can help set you on the path to success. This new web based training tool, the 'ETS eCampus', will help the KNX newcomers to quickly start with the basic principles, functions and control concepts of the KNX system and learn the most important steps with ETS. The tool is available FREE OF

CHARGE via the KNX Online Shop and is now also available in Chinese, Danish, Finnish, Norwegian and Portuguese next to the already available German, English, French, Italian, Dutch, Greek, Spanish, Swedish, Russian, Czech, Polish and Turkish version.

Link: <http://onlineshop.knx.org>





Brussels (Belgien)

## New learning platform: the KNX eAcademy

This year, KNX Association has created the KNX eAcademy, where KNX is available at your fingertips! KNX is the worldwide leader in home and building control, bringing thousands of users and professionals in a unique technological world ready for the future. The KNX eAcademy is now pushing this one step further by offering to all users whether they are end users, installers, manufacturers, etc, direct links to the KNX knowledge. The KNX eAcademy is opening its doors to you who:



- Want to start learning the basics of the KNX system
- Wish to have live hands-on sessions on the KNX Manufacturer tool
- Search for information webinars about joining KNX Association as member
- Would like to have live chat about certification of your school
- ... And much more !

**Link:** [www.knx.org/knx-eacademy](http://www.knx.org/knx-eacademy)

## KNX Conferences / Fair Schedule

2013 / 2014

### Ineltec

10 – 13.9.2013

Basel (Switzerland)

KNX Swiss will be present with a stand at I.1, E67.

[www.ineltec.ch](http://www.ineltec.ch)

### BEX Asia 2013

11 – 13.9.2013

Singapore (Singapore)

Building exposition in South East Asia focused on green building

[www.bex-asia.com](http://www.bex-asia.com)

### Predialtec 2013

11 – 13.9.2013

Sao Paulo (Brazil)

The biggest Brazilian trade fair with focus on audio/video and building automation

[www.predialtec.com](http://www.predialtec.com)

### Elektrotechnik 2013

11 – 13.9.2013

Dortmund (Germany)

Leading regional trade fair for electrical engineering and industrial electronics

[www.westfalenhallen.de/messen/elektrotechnik/index.php](http://www.westfalenhallen.de/messen/elektrotechnik/index.php)

### Energetab 2013

17 – 19.9.2013

Bielsko – Biala (Poland)

International power industry fair

[www.energetab.pl](http://www.energetab.pl)

### The KNX Day in Sweden

17.9.2013

Stockholm (Sweden)

A KNX day full of presentations: City conference, KNX Awards, etc.

[www.knx.se](http://www.knx.se)

### Ecobouw 2013

17 – 19.9.2013

Utrecht (The Netherlands)

Event for the construction world and energy efficiency.

[www.ecobouw.net](http://www.ecobouw.net)

上海国际智能建筑展览会

### Shanghai Intelligent Building Technology

25 – 27.9.2013

Shanghai (China)

Event that aims at brand-building and invites professional buyers

[www.building.messefrankfurt.com.cn](http://www.building.messefrankfurt.com.cn)

### Elektrotechnik 2013

30.9. – 4.10.2013

Utrecht (The Netherlands)

The most important trade fair for the installer industry

[www.elektrotechnik-online.nl](http://www.elektrotechnik-online.nl)

### The KNX National Groups Conference

1 – 2.10.2013

Luxembourg (Luxembourg)

The meeting of the KNX National Groups used to exchange experiences

[www.knx.org/national-sites](http://www.knx.org/national-sites)

### Hem & Villa

3 – 6.10.2013

Stockholm (Sweden)

24 – 27.10.2013

Gothenburg (Sweden)

The largest do it yourself trade fair

[www.hemochvilla.se](http://www.hemochvilla.se)

### Light Middle East

7 – 9.10.2013

Dubai (UAE)

Middle East's premier conference and exhibition for lighting design and technology

[www.lightme.net](http://www.lightme.net)

### Autumn Fair 2013

12 – 20.10.2013

Luxembourg (Luxembourg)

A must-attend event focused on products and services for anyone with building, renovation or decoration plans in mind

[www.automne.lu](http://www.automne.lu)



**interclima+elec 2013**

4 – 8.11.2013

Paris (France)

An opportunity to discover the most innovative solutions which combine energy efficiency and comfort

[www.interclimaelec.com](http://www.interclimaelec.com)



**Interlight Moscow 2013**

5 – 8.11.2013

Moscow (Russia)

International trade fair for lighting, electrical engineering, home and building automation

[www.interlight.messefrankfurt.ru](http://www.interlight.messefrankfurt.ru)



**Biel light+building**

5 – 9.11.2013

Buenos Aires (Argentina)

Biennial international trade fair for electrical engineering, electronics and lighting

[www.biel.com.ar](http://www.biel.com.ar)



**KNX Colloquium**

8.11.2013

Frankfurt/Main (Germany)

One day KNX event organized by KNX Germany

[www.knx.de](http://www.knx.de)



**Smart Home Building Show**

8.11.2013

Seoul (South Korea)

Korea's leading fair for smart, green houses and buildings

[www.hnbshow.com/hboard3/e\\_index.html](http://www.hnbshow.com/hboard3/e_index.html)



**BEURS  
DOMOTICA  
& Slim Wonen**

**Beurs Domotica en Slim Wonen**

20 – 21.11.2013

Eindhoven (The Netherlands)

Trade show mainly based on home and building electronic systems

[www.beursdomoticaenslimwonen.nl](http://www.beursdomoticaenslimwonen.nl)



**Rexel Fair**

20 – 21.11.2013

Nantes (France)

Events with the focus on the electronics sector

[www.knx.fr](http://www.knx.fr)



**Taipei International Building, Construction & Decoration Exhibition**

12 – 15.12.2013

Taipei (Taiwan)

Largest and foremost international construction and building materials show in Taiwan

[http://taipeibex.com/2013/en\\_US/information.php](http://taipeibex.com/2013/en_US/information.php)



**Electrama**

8 – 12.1.2014

Bangalore (India)

India's biggest show for the electrical and industrial electronics industry, held every two years

[www.electrama.com](http://www.electrama.com)



**ISE Europe**

4 – 6.2.2014

Amsterdam (The Netherlands)

Europe's No. 1 event for the professional AV and electronic system industry

[www.iseurope.org](http://www.iseurope.org)



**Batibouw 2014**

21.2 – 3.3.2014

Brussels (Belgium)

Belgium's biggest building trade fair

[www.batibouw.be](http://www.batibouw.be)



**light + building 2014**

30.3 – 4.4.2014

Frankfurt (Germany)

The world's leading trade fair for architecture and technology

<http://light-building.messefrankfurt.com>



**Eliaden 2014**

2 – 5.6.2014

Oslo (Norway)

The industrial event where the entire electrical engineering industry will meet up

[www.eliaden.no](http://www.eliaden.no)



**KNX Training Centre Conference**

8 – 9.5.2014

Porto, Portugal

The meeting for KNX Training Centres where the new development of ETS and more is shown.

[www.knx.org/knx-partners/training-centres/events/](http://www.knx.org/knx-partners/training-centres/events/)

**Imprint**

**KNX Journal international**

The KNX Journal is the international magazine for home and building control based on KNX technology. Experts, practitioners and professionals show the way in applying and developing the KNX standard – from home and building control trends to devices and application projects; from the KNX members and partners to useful information on event stand and publications. Special attention is given to members and activities of the KNX Association international and their national groups.

**Distribution**

This bi-annual and bi-lingual Journal (English/German) can be ordered free of charge by all members, partners (installers, scientific, training centres, associated, national groups) and by media representatives of KNX Association international. Order the KNX Journal by Email from [knx-journal@knx.org](mailto:knx-journal@knx.org).

**Online Distribution**

The KNX Journal international is posted as a Portable Document Format (PDF)-File to [www.knx.org/news-press/knx-journal/](http://www.knx.org/news-press/knx-journal/).

**Editor**

KNX Association cvba  
De Kleetan 5 Bus 11  
B-1831 Diegem - Brussels, Belgium  
Phone: +32 (0) 2 775 85 90  
Fax: +32 (0) 2 675 50 28  
Email: [info@knx.org](mailto:info@knx.org)  
URL: [www.knx.org](http://www.knx.org)

**Editorial Office:**

Redaktion KNX Journal  
Friedrich-Wolf-Str. 16 A  
12527 Berlin  
Germany  
Phone: +49 (0) 30 64 32 62 79  
Fax: +49 (0) 30 64 32 62 78  
Email: [knx-journal@knx.org](mailto:knx-journal@knx.org)  
URL: [www.knx.org/news-press/knx-journal/](http://www.knx.org/news-press/knx-journal/)

**ISSN:**

2033-7396

**Print edition:**

80,000 copies

**Picture credits:**

KNX Association cvba, editorial office and specified companies

**Copyright**

Reproduction of contributions only with permission of the publishing house under detailed source data. For unsolicited sent-in manuscripts and entries the publishing house does not take any responsibility. The photos are provided from the respective companies. Brands used in this magazine without guarantee of the free usefulness. Texts, illustrations and technical data are carefully compiled, nevertheless errors cannot completely be excluded. The publishing house and the authors can neither take a legal responsibility nor any adhesion for incorrect data.

KNX® and ETS® are registered trademark of KNX Association cvba, Belgium.

# The worldwide STANDARD for home and building control



KNX members

318 manufacturers from 34 countries



## Your partners



**Mr. Heinz Lux**  
CEO  
heinz.lux@knx.org  
Phone: +32 - (0)2 - 775 85 90



**Mr. Joost Demarest**  
CFO, CTO  
joost.demarest@knx.org  
Phone: +32 - (0)2 - 775 86 44



**KNX Association**  
De Kleetlaan 5 Bus 11  
B - 1831 Diegem-Brussels  
Belgium

**General contact:**  
Phone: +32 - (0)2 - 775 85 90  
Fax: +32 - (0)2 - 675 50 28  
Email: [info@knx.org](mailto:info@knx.org)  
Web: [www.knx.org](http://www.knx.org)



**Mr. Serge Creola**  
Sales & Support Manager  
sales@knx.org  
Phone: +32 - (0)2 - 775 85 90



**Mr. Casto Canavate**  
Marketing Manager  
casto.canavate@knx.org  
Phone: +32 - (0)2 - 775 85 91



**Mr. André Hänel**  
System & Tool Manager  
andre.haenel@knx.org  
Phone: +32 - (0)2 - 775 85 90



**Mr. Ufuk Unal**  
Certification Manager  
ufuk.unal@knx.org  
Phone: +32 - (0)2 - 775 86 53



**Mrs. Angelique De Scheemaeker** - Sales  
sales@knx.org  
Phone: + 32 (0)2 - 775 85 90



**Mr. Thibaut Hox**  
Marketing  
thibaut.hox@knx.org  
Phone: + 32 (0)2 - 775 85 99



**Mr. Steven de Bruyne**  
System Architect  
steven.debruyne@knx.org  
Phone: +32 - (0)2 - 775 86 47



**Mr. Christophe Parthoens**  
Support Engineer  
support@knx.org  
Phone: +32 - (0)2 - 775 85 90



**Mr. Christian Stahn**  
Marketing  
christian.stahn@knx.org  
Phone: +32 - (0)2 - 775 86 48



**Mr. Vassilios Lourdas**  
System Engineer  
vassilios.lourdas@knx.org  
Phone: +32 - (0)2 - 775 86 40



**Sales**  
KNX Tools Online Shop:  
<https://onlineshop.knx.org>



**Tool Support**  
KNX Online Support:  
<https://onlineshop.knx.org>

Follow us:



www.knx.org

INTERNATIONAL AWARD

PUBLICITY AWARD

SPECIAL AWARD

ENERGY EFFICIENCY AWARD

YOUNG AWARD

# KNX AWARD 2014

KNX Association International is pleased to announce that applications can now be handed in for the KNX Award 2014, which will be granted at the Light+Building fair 2014 in Frankfurt (Germany) on the 1<sup>st</sup> April 2014.

The KNX Award rewards the smartest KNX projects in home and building control around the world, which stand out as regards innovation and technical progress.

Applications are welcome from around the world in five categories (see above).

Prize money: 1000 € in each category

**Deadline for submission:**  
Friday, 6<sup>th</sup> December 2013



**Info / Registration:**  
[www.knx.org/knxaward](http://www.knx.org/knxaward)